WEBVTT

00:00:00.000 --> 00:00:01.152 Good evening everyone.

00:00:01.152 --> 00:00:03.840 I'm Doctor Mary I'm lost Burg and

00:00:03.914 --> 00:00:06.266 welcome to this edition of Smiley

00:00:06.266 --> 00:00:09.300 shares on breast Cancer Awareness Month.

00:00:09.300 --> 00:00:13.024 Our focus today will be on new

00:00:13.024 --> 00:00:15.930 treatment advances and innovations.

00:00:15.930 --> 00:00:18.849 Please allow me to introduce our speakers.

00:00:18.850 --> 00:00:20.884 Come and Mary M Lustberg and

00:00:20.884 --> 00:00:22.950 I'm chief of breast oncology.

00:00:22.950 --> 00:00:24.590 I'm here at Yale.

00:00:24.590 --> 00:00:27.050 Joining me tonight is Doctor Tristan.

00:00:27.050 --> 00:00:30.050 Park is an assistant professor of

00:00:30.050 --> 00:00:33.350 surgery and in addition we have

00:00:33.350 --> 00:00:35.900 vector bookdown pomoc who is a

NOTE Confidence: 0.845096001764706

00:00:35.900 --> 00:00:39.572 chief who's a chief of plastic and

NOTE Confidence: 0.845096001764706

00:00:39.572 --> 00:00:41.259 reconstructive surgery together,

NOTE Confidence: 0.845096001764706

00:00:41.259 --> 00:00:43.404 will present three talks to

NOTE Confidence: 0.845096001764706

00:00:43.404 --> 00:00:45.909 you that focus on the most.

NOTE Confidence: 0.845096001764706

00:00:45.910 --> 00:00:48.694 Recent advances in multidisciplinary

NOTE Confidence: 0.845096001764706

00:00:48.694 --> 00:00:51.478 management of breast cancer.

NOTE Confidence: 0.876345403

00:00:53.580 --> 00:00:55.926 To start with, in honor of

NOTE Confidence: 0.876345403

00:00:55.926 --> 00:00:57.490 breast Cancer Awareness Month,

NOTE Confidence: 0.876345403

00:00:57.490 --> 00:00:59.716 I wanted to just briefly recap

NOTE Confidence: 0.876345403

00:00:59.716 --> 00:01:02.360 where we are with breast cancer.

NOTE Confidence: 0.876345403

00:01:02.360 --> 00:01:05.110 As you can see here.

NOTE Confidence: 0.876345403

00:01:05.110 --> 00:01:08.206 Breast cancer is diagnosed in all ages now.

NOTE Confidence: 0.876345403

00:01:08.210 --> 00:01:13.146 It tends to peak in in in the 6th decade.

NOTE Confidence: 0.876345403

00:01:13.150 --> 00:01:16.360 However, younger women and older women

NOTE Confidence: 0.876345403

00:01:16.360 --> 00:01:19.580 can still be diagnosed with breast cancer.

NOTE Confidence: 0.876345403

00:01:19.580 --> 00:01:21.890 In addition, men can also be diagnosed

NOTE Confidence: 0.876345403

00:01:21.890 --> 00:01:23.928 with breast cancer and they comprise

NOTE Confidence: 0.876345403

00:01:23.930 --> 00:01:28.030 1% approximately of all diagnosis when

NOTE Confidence: 0.876345403

00:01:28.030 --> 00:01:31.670 their right hand graph you can see

NOTE Confidence: 0.876345403

00:01:31.670 --> 00:01:35.216 differences and outcomes based on race.

NOTE Confidence: 0.876345403

00:01:35.220 --> 00:01:37.614 And this is an area of active

NOTE Confidence: 0.876345403

00:01:37.614 --> 00:01:39.906 advocacy and effort here at Yale

NOTE Confidence: 0.876345403

00:01:39.906 --> 00:01:42.294 as well as nationally to improve

NOTE Confidence: 0.876345403

00:01:42.294 --> 00:01:43.948 disparities in breast cancer.

NOTE Confidence: 0.909790707857143

00:01:45.990 --> 00:01:48.354 Who's at risk? The biggest risk

NOTE Confidence: 0.909790707857143

00:01:48.354 --> 00:01:51.608 factor is is is is is being female.

NOTE Confidence: 0.909790707857143

00:01:51.610 --> 00:01:55.845 Advancing age, family history and there are

NOTE Confidence: 0.909790707857143

00:01:55.845 --> 00:01:59.108 other risk factors that are listed here,

NOTE Confidence: 0.909790707857143

00:01:59.110 --> 00:02:02.534 including exposure to radiation,

NOTE Confidence: 0.909790707857143

00:02:02.534 --> 00:02:06.548 abnormal biopsies, post menopausal obesity,

NOTE Confidence: 0.909790707857143

00:02:06.548 --> 00:02:10.305 excessive alcohol use as well as

00:02:10.305 --> 00:02:12.245 hormonal features including early

00:02:12.245 --> 00:02:16.160 age of man are late age of menopause.

00:02:16.160 --> 00:02:17.170 Late pregnancy.

00:02:19.350 --> 00:02:21.204 We have identified a number of

00:02:21.204 --> 00:02:22.850 different genetic factors that are

00:02:22.850 --> 00:02:24.270 associated with breast cancers.

00:02:24.270 --> 00:02:26.220 Some of them are associated with

00:02:26.220 --> 00:02:28.157 higher risk of breast cancer and

00:02:28.157 --> 00:02:30.461 these are things that we can test for

00:02:30.470 --> 00:02:32.382 in the majority of cases, though,

00:02:32.382 --> 00:02:35.616 we do not find an identifiable genetic

00:02:35.616 --> 00:02:38.138 factor that tells us why an individual is

00:02:38.138 --> 00:02:40.030 diagnosed with breast cancer versus not.

00:02:40.030 --> 00:02:44.118 This is also an area of active investigation.

00:02:44.120 --> 00:02:47.047 The number one message tonight is that the

NOTE Confidence: 0.909072320666667

00:02:47.047 --> 00:02:50.303 diagnosis of breast cancer is no one's fault.

NOTE Confidence: 0.909072320666667

00:02:50.310 --> 00:02:51.790 Certainly there are risk

NOTE Confidence: 0.909072320666667

00:02:51.790 --> 00:02:53.640 factors that we cannot change.

NOTE Confidence: 0.909072320666667

00:02:53.640 --> 00:02:55.890 There are certain modifiable risk

NOTE Confidence: 0.909072320666667

00:02:55.890 --> 00:02:59.301 factors that can reduce risk and that

NOTE Confidence: 0.909072320666667

00:02:59.301 --> 00:03:01.477 includes weight management exercise.

NOTE Confidence: 0.909072320666667

00:03:01.480 --> 00:03:03.795 However, none of these factors

NOTE Confidence: 0.909072320666667

00:03:03.795 --> 00:03:06.300 100% takes away the risk.

NOTE Confidence: 0.909072320666667

00:03:06.300 --> 00:03:08.340 We strongly recommend following

NOTE Confidence: 0.909072320666667

00:03:08.340 --> 00:03:10.444 breast imaging screening guidelines

NOTE Confidence: 0.909072320666667

00:03:10.444 --> 00:03:13.468 starting at age 40 and annually.

NOTE Confidence: 0.909072320666667

00:03:13.470 --> 00:03:13.903 However,

NOTE Confidence: 0.909072320666667

00:03:13.903 --> 00:03:16.501 I just wanted to re emphasize

NOTE Confidence: 0.909072320666667

00:03:16.501 --> 00:03:19.118 that we can do all these things

NOTE Confidence: 0.909072320666667

00:03:19.120 --> 00:03:21.688 even with regular screening.

NOTE Confidence: 0.909072320666667

00:03:21.690 --> 00:03:22.170 Uhm?

NOTE Confidence: 0.909072320666667

00:03:22.170 --> 00:03:25.050 Now where women and men can

NOTE Confidence: 0.909072320666667

00:03:25.050 --> 00:03:27.250 count about breast cancer,

NOTE Confidence: 0.909072320666667

00:03:27.250 --> 00:03:29.100 and again it's nobody's fault,

NOTE Confidence: 0.909072320666667

00:03:29.100 --> 00:03:31.972 and the focus of tonight is once a

NOTE Confidence: 0.909072320666667

00:03:31.972 --> 00:03:34.119 breast cancer diagnosis happens.

NOTE Confidence: 0.909072320666667

00:03:34.120 --> 00:03:37.108 What are the latest ways that we are learning

NOTE Confidence: 0.909072320666667

00:03:37.108 --> 00:03:40.217 to manage it better and more successfully?

NOTE Confidence: 0.909072320666667

00:03:40.220 --> 00:03:43.001 So the first talk will be the one I

NOTE Confidence: 0.909072320666667

00:03:43.001 --> 00:03:45.661 will give focusing on personalizing

NOTE Confidence: 0.909072320666667

00:03:45.661 --> 00:03:48.496 and rightsizing rest oncology care.

NOTE Confidence: 0.909072320666667

00:03:48.500 --> 00:03:50.712 The outline is to focus on personalized

NOTE Confidence: 0.909072320666667

00:03:50.712 --> 00:03:51.028 medicine,

NOTE Confidence: 0.909072320666667

00:03:51.030 --> 00:03:52.530 explain what it is,

NOTE Confidence: 0.909072320666667

00:03:52.530 --> 00:03:55.293 what does it mean with respect to

NOTE Confidence: 0.909072320666667

00:03:55.293 --> 00:03:57.903 breast oncology and review a few

NOTE Confidence: 0.909072320666667

00:03:57.903 --> 00:03:59.826 current strategies for personalizing

NOTE Confidence: 0.909072320666667

00:03:59.826 --> 00:04:03.066 breast oncology care and wrap up

NOTE Confidence: 0.909072320666667

00:04:03.066 --> 00:04:05.630 with future opportunities so the

NOTE Confidence: 0.909072320666667

00:04:05.630 --> 00:04:07.980 short version of what personalized

NOTE Confidence: 0.909072320666667

00:04:07.980 --> 00:04:10.172 medicine or precision medicine that

NOTE Confidence: 0.909072320666667

00:04:10.172 --> 00:04:12.980 you have heard a lot in the news.

NOTE Confidence: 0.909072320666667

00:04:12.980 --> 00:04:14.668 The best way that I find to describe

NOTE Confidence: 0.909072320666667

00:04:14.668 --> 00:04:16.498 it is the right treatment for the

NOTE Confidence: 0.909072320666667

00:04:16.498 --> 00:04:18.123 right patient at the right time

NOTE Confidence: 0.909072320666667

00:04:18.123 --> 00:04:19.614 and this is what we focus on.

NOTE Confidence: 0.909072320666667

00:04:19.620 --> 00:04:21.930 And Breast Cancer Care as well.

NOTE Confidence: 0.909072320666667

00:04:21.930 --> 00:04:24.342 And so how are we personalizing

NOTE Confidence: 0.909072320666667

00:04:24.342 --> 00:04:25.548 Breast Cancer Care?

NOTE Confidence: 0.909072320666667

00:04:25.550 --> 00:04:28.529 And I think as you can see tonight with

NOTE Confidence: 0.909072320666667

00:04:28.529 --> 00:04:31.790 our panel of having a medical oncologist,

NOTE Confidence: 0.909072320666667

00:04:31.790 --> 00:04:34.315 a surgeon and a reconstruction

NOTE Confidence: 0.909072320666667

00:04:34.315 --> 00:04:35.325 surgeon altogether,

NOTE Confidence: 0.909072320666667

00:04:35.330 --> 00:04:37.210 is that ultimately the best

NOTE Confidence: 0.909072320666667

00:04:37.210 --> 00:04:38.714 personalization or Breast Cancer

NOTE Confidence: 0.909072320666667

00:04:38.714 --> 00:04:40.722 Care is multidisciplinary management.

NOTE Confidence: 0.909072320666667

00:04:40.722 --> 00:04:43.442 I'm really working together as

NOTE Confidence: 0.909072320666667

00:04:43.442 --> 00:04:46.547 a team to deliver the best care.

NOTE Confidence: 0.909072320666667

00:04:46.550 --> 00:04:50.372 So in most recent years we have

NOTE Confidence: 0.909072320666667

00:04:50.372 --> 00:04:53.232 seen greater use of neoadjuvant.

NOTE Confidence: 0.909072320666667

00:04:53.232 --> 00:04:56.122 Also known as preoperative chemotherapy

NOTE Confidence: 0.909072320666667

00:04:56.122 --> 00:04:59.836 or therapy that we get prior to surgery.

NOTE Confidence: 0.909072320666667

00:04:59.840 --> 00:05:02.738 You will hear tonight about advances

NOTE Confidence: 0.909072320666667

00:05:02.738 --> 00:05:04.670 in surgery and reconstruction.

NOTE Confidence: 0.909072320666667

00:05:04.670 --> 00:05:07.393 And then I will cover the therapies

NOTE Confidence: 0.909072320666667

00:05:07.393 --> 00:05:10.520 that we give throughout the whole body

NOTE Confidence: 0.909072320666667

00:05:10.520 --> 00:05:12.970 or systemic therapy to personalize

NOTE Confidence: 0.909072320666667

00:05:12.970 --> 00:05:15.700 treatment and a lot of a lot of

NOTE Confidence: 0.909072320666667

00:05:15.700 --> 00:05:18.582 work has gone into better matching

NOTE Confidence: 0.909072320666667

00:05:18.582 --> 00:05:21.617 patients to the right treatment.

NOTE Confidence: 0.909072320666667

00:05:21.620 --> 00:05:23.572 And throughout this process.

NOTE Confidence: 0.909072320666667

00:05:23.572 --> 00:05:26.850 Our goal is to partner with you

NOTE Confidence: 0.909072320666667

00:05:26.850 --> 00:05:29.041 as key stakeholders as we help you

NOTE Confidence: 0.909072320666667

00:05:29.041 --> 00:05:30.969 make the decisions that are best

NOTE Confidence: 0.909072320666667

00:05:30.969 --> 00:05:32.519 for your Breast Cancer Care.

NOTE Confidence: 0.896635948333334

00:05:34.570 --> 00:05:36.739 So one of the key points of tonight in

NOTE Confidence: 0.896635948333334

00:05:36.739 --> 00:05:38.596 terms of personalized medicine on breast

NOTE Confidence: 0.896635948333334

00:05:38.596 --> 00:05:40.773 cancer is that not all breast cancer

NOTE Confidence: 0.896635948333334

00:05:40.773 --> 00:05:43.005 is the same and that we actually have

NOTE Confidence: 0.896635948333334

00:05:43.010 --> 00:05:45.370 multiple subtypes of breast cancer.

NOTE Confidence: 0.896635948333334

00:05:45.370 --> 00:05:47.519 And this is the major advance that

NOTE Confidence: 0.896635948333334

00:05:47.519 --> 00:05:49.879 we've had in the last two decades.

NOTE Confidence: 0.896635948333334

00:05:49.880 --> 00:05:52.640 Many breast cancers are estrogen

00:05:52.640 --> 00:05:54.900 receptor positive, but not all of them,

00:05:54.900 --> 00:05:57.434 and not even all estrogen receptor positive

00:05:57.434 --> 00:05:59.609 breast cancer is created the same.

00:05:59.610 --> 00:06:01.350 We sometimes further classify

00:06:01.350 --> 00:06:03.960 them as Lumina lay and aluminum.

00:06:03.960 --> 00:06:06.186 We we also have a unique subset

00:06:06.186 --> 00:06:08.373 of breast cancers known as her

00:06:08.373 --> 00:06:09.929 two overexpressing breast cancers

00:06:09.929 --> 00:06:12.400 and these are approximately about

00:06:12.400 --> 00:06:14.780 15% of our breast cancers.

00:06:14.780 --> 00:06:18.532 And then we have another category of

00:06:18.532 --> 00:06:21.546 breast tumors, approximately 15% as well,

00:06:21.546 --> 00:06:24.450 which are known as triple negative.

00:06:24.450 --> 00:06:24.964 However,

00:06:24.964 --> 00:06:28.048 even these can be further subdivided

NOTE Confidence: 0.896635948333334

00:06:28.048 --> 00:06:30.580 into multiple sub categories,

NOTE Confidence: 0.896635948333334

00:06:30.580 --> 00:06:32.800 sometimes up to eight different categories.

NOTE Confidence: 0.896635948333334

00:06:32.800 --> 00:06:35.368 So really this slide is meant

NOTE Confidence: 0.896635948333334

00:06:35.368 --> 00:06:38.670 to show you how.

NOTE Confidence: 0.896635948333334

00:06:38.670 --> 00:06:40.776 Breast cancer can be quite different

NOTE Confidence: 0.896635948333334

00:06:40.776 --> 00:06:42.750 from one patient to another,

NOTE Confidence: 0.896635948333334

00:06:42.750 --> 00:06:44.988 and it's so important to understand

NOTE Confidence: 0.896635948333334

00:06:44.988 --> 00:06:46.940 the biology of breast cancer

NOTE Confidence: 0.896635948333334

00:06:46.940 --> 00:06:50.080 and target other treatments.

NOTE Confidence: 0.896635948333334

00:06:50.080 --> 00:06:52.450 Soum further emphasizing this point that

NOTE Confidence: 0.896635948333334

00:06:52.450 --> 00:06:55.494 a lot of our treatments are focused

NOTE Confidence: 0.896635948333334

00:06:55.494 --> 00:06:58.272 on this subtype of breast cancer.

NOTE Confidence: 0.896635948333334

00:06:58.280 --> 00:07:01.004 We also look at the pathology

NOTE Confidence: 0.896635948333334

00:07:01.004 --> 00:07:02.366 or tumor characteristics.

NOTE Confidence: 0.896635948333334

00:07:02.370 --> 00:07:04.862 Looking at the Histology,

NOTE Confidence: 0.896635948333334

00:07:04.862 --> 00:07:08.510 the grade, the stage of the tumors,

NOTE Confidence: 0.896635948333334

00:07:08.510 --> 00:07:12.476 and we also really look at molecular

NOTE Confidence: 0.896635948333334

00:07:12.476 --> 00:07:13.934 and genomic characteristics,

NOTE Confidence: 0.896635948333334

00:07:13.934 --> 00:07:17.309 which I'll cover in the upcoming slides

NOTE Confidence: 0.896635948333334

00:07:17.309 --> 00:07:20.396 and all of this information helps us.

NOTE Confidence: 0.896635948333334

00:07:20.396 --> 00:07:24.407 Taylor, the best systemic therapy for you.

NOTE Confidence: 0.896635948333334

00:07:24.410 --> 00:07:27.777 So more information on this coming up.

NOTE Confidence: 0.896635948333334

00:07:27.780 --> 00:07:30.888 So what are our current strategies for

NOTE Confidence: 0.896635948333334

00:07:30.888 --> 00:07:33.490 personalizing our breast cancer therapies?

NOTE Confidence: 0.896635948333334

00:07:33.490 --> 00:07:35.818 This is a big topic and could be

NOTE Confidence: 0.896635948333334

00:07:35.818 --> 00:07:38.147 an hour long lecture in itself.

NOTE Confidence: 0.896635948333334

00:07:38.150 --> 00:07:40.516 However, for the purposes of this talk,

NOTE Confidence: 0.896635948333334

00:07:40.520 --> 00:07:44.896 I have divided it into three sub categories.

NOTE Confidence: 0.896635948333334

00:07:44.900 --> 00:07:47.870 One is targets and targeted therapy.

NOTE Confidence: 0.896635948333334

00:07:47.870 --> 00:07:50.145 Less is more, and more is more,

NOTE Confidence: 0.896635948333334

00:07:50.150 --> 00:07:52.886 so you'll hear each of these

NOTE Confidence: 0.896635948333334

00:07:52.886 --> 00:07:54.710 mini chapters coming up,

NOTE Confidence: 0.896635948333334

00:07:54.710 --> 00:07:58.088 so targeted targets and targeted therapy.

NOTE Confidence: 0.896635948333334

00:07:58.090 --> 00:08:00.310 So we are understanding more and

NOTE Confidence: 0.896635948333334

00:08:00.310 --> 00:08:02.653 more about the various targets that

NOTE Confidence: 0.896635948333334

00:08:02.653 --> 00:08:05.023 are present in breast tumor cells.

NOTE Confidence: 0.896635948333334

00:08:05.030 --> 00:08:07.466 In this schema you can see a

NOTE Confidence: 0.896635948333334

00:08:07.466 --> 00:08:09.170 number of different targets,

NOTE Confidence: 0.896635948333334

00:08:09.170 --> 00:08:11.924 including the PDL pathway which we

NOTE Confidence: 0.896635948333334

00:08:11.924 --> 00:08:13.760 are targeting with immunotherapy.

NOTE Confidence: 0.896635948333334

00:08:13.760 --> 00:08:16.161 The EGFR and her two pathways are

NOTE Confidence: 0.896635948333334

00:08:16.161 --> 00:08:18.200 targeted with her two directive.

NOTE Confidence: 0.896635948333334

00:08:18.200 --> 00:08:21.668 Therapies and a whole new emerging

NOTE Confidence: 0.896635948333334

00:08:21.668 --> 00:08:25.573 area of Turkey targeting DNA DNA

NOTE Confidence: 0.896635948333334

00:08:25.573 --> 00:08:29.178 repair pathways through very precise

NOTE Confidence: 0.896635948333334

00:08:29.178 --> 00:08:32.304 on targeted therapies that have

NOTE Confidence: 0.896635948333334

00:08:32.304 --> 00:08:34.056 been shown to be very effective.

NOTE Confidence: 0.896635948333334

00:08:34.060 --> 00:08:37.850 I will show you some saw some data on those.

NOTE Confidence: 0.896635948333334

00:08:37.850 --> 00:08:39.806 And so we've begun to test,

NOTE Confidence: 0.896635948333334

00:08:39.810 --> 00:08:42.050 uhm, in the last decade,

NOTE Confidence: 0.896635948333334

00:08:42.050 --> 00:08:44.190 both the tumor tissue for

NOTE Confidence: 0.896635948333334

00:08:44.190 --> 00:08:46.750 genomic targets as well as you.

NOTE Confidence: 0.896635948333334

00:08:46.750 --> 00:08:49.305 So your germline DNA, what makes you,

NOTE Confidence: 0.896635948333334

00:08:49.310 --> 00:08:52.148 you and eat many of these,

NOTE Confidence: 0.896635948333334

00:08:52.150 --> 00:08:54.158 actually have targetable drugs,

NOTE Confidence: 0.896635948333334

00:08:54.158 --> 00:08:56.668 for example patients with germline

NOTE Confidence: 0.896635948333334

00:08:56.668 --> 00:08:59.970 BRCA one and two or bracket one and

NOTE Confidence: 0.896635948333334

00:08:59.970 --> 00:09:02.095 two alterations actually have very

NOTE Confidence: 0.896635948333334

00:09:02.095 --> 00:09:04.747 specific drugs known as PARP inhibitors.

NOTE Confidence: 0.896635948333334

00:09:04.750 --> 00:09:06.878 These are pills that you can take

NOTE Confidence: 0.896635948333334

00:09:06.878 --> 00:09:08.678 in the comfort of your home.

NOTE Confidence: 0.896635948333334

00:09:08.680 --> 00:09:10.606 And they've been shown to be

NOTE Confidence: 0.852799892307692

00:09:10.610 --> 00:09:11.710 very effective.

NOTE Confidence: 0.852799892307692

00:09:11.710 --> 00:09:15.560 We're also beginning to find very specific

NOTE Confidence: 0.852799892307692

00:09:15.560 --> 00:09:18.359 markers of immunotherapy response,

NOTE Confidence: 0.852799892307692

00:09:18.360 --> 00:09:20.064 including tumor mutation burden.

NOTE Confidence: 0.852799892307692

00:09:20.064 --> 00:09:22.620 Breast cancer was one of the

NOTE Confidence: 0.852799892307692

00:09:22.695 --> 00:09:25.083 later tumor types to enter what

NOTE Confidence: 0.852799892307692

00:09:25.083 --> 00:09:27.030 we call the immunotherapy age.

NOTE Confidence: 0.852799892307692

00:09:27.030 --> 00:09:29.564 However, just in the last few years,

NOTE Confidence: 0.852799892307692

00:09:29.570 --> 00:09:32.705 we've had several approvals for

NOTE Confidence: 0.852799892307692

00:09:32.705 --> 00:09:35.213 different indications for immunotherapy,

NOTE Confidence: 0.852799892307692

00:09:35.220 --> 00:09:37.720 particularly in the setting of

NOTE Confidence: 0.852799892307692

00:09:37.720 --> 00:09:39.720 triple negative breast cancer.

NOTE Confidence: 0.852799892307692

00:09:39.720 --> 00:09:42.816 So back to the burqa or Bronco story

NOTE Confidence: 0.852799892307692

00:09:42.816 --> 00:09:46.560 on these drugs were first approved in

NOTE Confidence: 0.852799892307692

00:09:46.560 --> 00:09:49.440 patients with metastatic breast cancer

NOTE Confidence: 0.852799892307692

00:09:49.535 --> 00:09:52.504 who had a BRCA one or two alteration,

NOTE Confidence: 0.852799892307692

00:09:52.504 --> 00:09:55.654 and both these studies showed that if

NOTE Confidence: 0.852799892307692

00:09:55.654 --> 00:09:58.580 you took these oral drugs and actually

NOTE Confidence: 0.852799892307692

00:09:58.580 --> 00:10:01.669 compare them to traditional chemotherapy,

NOTE Confidence: 0.852799892307692

00:10:01.670 --> 00:10:05.566 you can see in the Burgundy line here.

NOTE Confidence: 0.852799892307692

00:10:05.570 --> 00:10:08.270 The targeted therapy actually

NOTE Confidence: 0.852799892307692

00:10:08.270 --> 00:10:09.620 outperformed chemotherapy,

NOTE Confidence: 0.852799892307692

00:10:09.620 --> 00:10:12.431 so this led to the FDA approval

NOTE Confidence: 0.852799892307692

00:10:12.431 --> 00:10:14.264 of these agents.

NOTE Confidence: 0.852799892307692

00:10:14.264 --> 00:10:16.708 And then most recently,

NOTE Confidence: 0.852799892307692

00:10:16.710 --> 00:10:20.385 we actually just just this past summer.

NOTE Confidence: 0.852799892307692

00:10:20.390 --> 00:10:22.040 Just a few months ago,

NOTE Confidence: 0.852799892307692

00:10:22.040 --> 00:10:24.770 we received news of a major

NOTE Confidence: 0.852799892307692

00:10:24.770 --> 00:10:26.135 international collaboration looking

NOTE Confidence: 0.852799892307692

00:10:26.135 --> 00:10:28.835 at oral PARP inhibitors and early

NOTE Confidence: 0.852799892307692

00:10:28.835 --> 00:10:31.005 stage breast cancer patients who

NOTE Confidence: 0.852799892307692

00:10:31.082 --> 00:10:33.357 had a BRCA one or two alteration,

NOTE Confidence: 0.852799892307692

00:10:33.360 --> 00:10:35.978 and this included patients both with triple.

NOTE Confidence: 0.852799892307692

00:10:35.980 --> 00:10:39.280 Negative as well as.

NOTE Confidence: 0.852799892307692

00:10:39.280 --> 00:10:41.326 You're positive, high risk breast cancer,

NOTE Confidence: 0.852799892307692

00:10:41.330 --> 00:10:44.126 and again the addition of targeted

NOTE Confidence: 0.852799892307692

00:10:44.126 --> 00:10:46.970 therapy led to improvements in outcomes,

NOTE Confidence: 0.852799892307692

00:10:46.970 --> 00:10:49.728 so this again highlights the importance of

NOTE Confidence: 0.852799892307692

00:10:49.728 --> 00:10:52.318 knowing our targets and going after them.

NOTE Confidence: 0.852799892307692

00:10:52.320 --> 00:10:53.886 The next chapter is about less,

NOTE Confidence: 0.852799892307692

00:10:53.890 --> 00:10:54.624 is more,

NOTE Confidence: 0.852799892307692

00:10:54.624 --> 00:10:54.991 UM,

NOTE Confidence: 0.852799892307692

00:10:54.991 --> 00:10:58.059 and we've made a number of advances in

NOTE Confidence: 0.852799892307692

00:10:58.059 --> 00:11:00.579 terms of actually testing the tumor

NOTE Confidence: 0.852799892307692

00:11:00.579 --> 00:11:03.988 tissue through a number of validated assays,

NOTE Confidence: 0.852799892307692

00:11:03.990 --> 00:11:07.050 and these may include Oncotype or

NOTE Confidence: 0.852799892307692

00:11:07.050 --> 00:11:09.483 Mammaprint mammaprint and select for

NOTE Confidence: 0.852799892307692

00:11:09.483 --> 00:11:12.309 patients who need chemotherapy and avoid

NOTE Confidence: 0.852799892307692

00:11:12.309 --> 00:11:14.868 chemotherapy and those that don't need it.

NOTE Confidence: 0.852799892307692

00:11:14.870 --> 00:11:17.439 And we this is already in routine

NOTE Confidence: 0.852799892307692

00:11:17.439 --> 00:11:19.810 practice and we're we're doing this,

NOTE Confidence: 0.852799892307692

00:11:19.810 --> 00:11:21.691 something that's evolving.

NOTE Confidence: 0.852799892307692

00:11:21.691 --> 00:11:25.453 And not quite ready outside of

NOTE Confidence: 0.852799892307692

00:11:25.453 --> 00:11:27.678 research is actually testing the

NOTE Confidence: 0.852799892307692

00:11:27.678 --> 00:11:30.294 tumor tissue for what we call

NOTE Confidence: 0.852799892307692

00:11:30.294 --> 00:11:32.760 tumor infiltrating lymphocytes.

NOTE Confidence: 0.852799892307692

00:11:32.760 --> 00:11:35.896 And these are cells that actually leave

NOTE Confidence: 0.852799892307692

00:11:35.896 --> 00:11:38.768 the bloodstream and enter tumor tissue.

NOTE Confidence: 0.852799892307692

00:11:38.770 --> 00:11:40.891 And what we have found is that

NOTE Confidence: 0.852799892307692

00:11:40.891 --> 00:11:42.999 tumors that actually have a lot of

NOTE Confidence: 0.852799892307692

00:11:42.999 --> 00:11:44.709 these tills or tumor and filtering

NOTE Confidence: 0.852799892307692

00:11:44.770 --> 00:11:46.786 left side actually do really well,

NOTE Confidence: 0.852799892307692

00:11:46.790 --> 00:11:49.574 and so a number of studies are looking

NOTE Confidence: 0.852799892307692

00:11:49.574 --> 00:11:51.618 at well, can we spare chemotherapy?

NOTE Confidence: 0.852799892307692

00:11:51.618 --> 00:11:53.640 In patients that have high tails

NOTE Confidence: 0.852799892307692

00:11:53.698 --> 00:11:55.634 and so this is a work in progress,

NOTE Confidence: 0.852799892307692

00:11:55.640 --> 00:11:59.048 not not in not ready for prime time,

NOTE Confidence: 0.852799892307692

00:11:59.050 --> 00:12:02.190 however is being actively researched.

NOTE Confidence: 0.852799892307692

00:12:02.190 --> 00:12:02.449 Again,

NOTE Confidence: 0.852799892307692

00:12:02.449 --> 00:12:04.780 the FEMA is if we can select the tumors

NOTE Confidence: 0.852799892307692

00:12:04.842 --> 00:12:06.760 that are more likely to do better.

NOTE Confidence: 0.852799892307692

00:12:06.760 --> 00:12:10.600 We can scare toxic treatments.

NOTE Confidence: 0.852799892307692

00:12:10.600 --> 00:12:12.870 Those patients.

NOTE Confidence: 0.852799892307692

00:12:12.870 --> 00:12:14.585 And then the last chapter is more,

NOTE Confidence: 0.852799892307692

00:12:14.590 --> 00:12:16.705 is more up and the idea is if we

NOTE Confidence: 0.852799892307692

00:12:16.705 --> 00:12:18.968 can pluck out the tumor types

NOTE Confidence: 0.852799892307692

00:12:18.968 --> 00:12:20.928 that actually need more treatment,

NOTE Confidence: 0.852799892307692

00:12:20.930 --> 00:12:23.670 we can improve our outcomes,

NOTE Confidence: 0.852799892307692

00:12:23.670 --> 00:12:25.938 and so the best way that we know how

NOTE Confidence: 0.852799892307692

00:12:25.938 --> 00:12:28.163 to do this is through preoperative

NOTE Confidence: 0.852799892307692

00:12:28.163 --> 00:12:29.795 or pre surgery, chemotherapy.

NOTE Confidence: 0.852799892307692

00:12:29.795 --> 00:12:32.705 So by using these treatments upfront

NOTE Confidence: 0.852799892307692

00:12:32.705 --> 00:12:35.333 before surgery we can decide if

NOTE Confidence: 0.852799892307692

00:12:35.333 --> 00:12:37.517 more therapy is needed after and

NOTE Confidence: 0.852799892307692

00:12:37.517 --> 00:12:39.742 it's a type of precision medicine

NOTE Confidence: 0.852799892307692

00:12:39.742 --> 00:12:42.290 because we can see in real time.

NOTE Confidence: 0.852799892307692

00:12:42.290 --> 00:12:43.810 How you actually responded

NOTE Confidence: 0.852799892307692

00:12:43.810 --> 00:12:45.330 to your treatment and

NOTE Confidence: 0.888794134

00:12:45.403 --> 00:12:48.083 I'll give you just a few examples before

NOTE Confidence: 0.888794134

00:12:48.083 --> 00:12:51.225 wrapping up in her two positive breast

NOTE Confidence: 0.888794134

00:12:51.225 --> 00:12:53.690 cancer after using traditional chemotherapy,

NOTE Confidence: 0.888794134

00:12:53.690 --> 00:12:55.670 there was a groundbreaking study that

NOTE Confidence: 0.888794134

00:12:55.670 --> 00:12:58.040 if there was any remaining tumor,

NOTE Confidence: 0.888794134

00:12:58.040 --> 00:13:03.268 using a smart therapy called Tyler or TDM,

NOTE Confidence: 0.888794134

00:13:03.268 --> 00:13:06.078 one actually dramatically improve outcomes.

NOTE Confidence: 0.888794134

00:13:06.080 --> 00:13:08.896 So it really allows us to tailor your

NOTE Confidence: 0.888794134

00:13:08.896 --> 00:13:11.300 treatment in triple negative breast cancer.

NOTE Confidence: 0.888794134

00:13:11.300 --> 00:13:12.748 We we also have.

NOTE Confidence: 0.888794134

00:13:12.748 --> 00:13:15.565 Good data that if we use preoperative

NOTE Confidence: 0.888794134

00:13:15.565 --> 00:13:20.019 chemo and there is remaining risk visual

NOTE Confidence: 0.888794134

00:13:20.019 --> 00:13:24.456 disease using a pill therapy known as

NOTE Confidence: 0.888794134

00:13:24.456 --> 00:13:26.454 the Lodha can also improve outcomes,

NOTE Confidence: 0.888794134

00:13:26.460 --> 00:13:28.620 but it's not perfect so there's a lot

NOTE Confidence: 0.888794134

00:13:28.620 --> 00:13:30.519 of work being done with immunotherapy

NOTE Confidence: 0.888794134

00:13:30.519 --> 00:13:33.678 in the setting to see if we can further

NOTE Confidence: 0.888794134

00:13:33.678 --> 00:13:35.598 improve outcomes in triple negative

NOTE Confidence: 0.888794134

00:13:35.598 --> 00:13:37.410 breast cancer and in high risk,

NOTE Confidence: 0.888794134

00:13:37.410 --> 00:13:38.842 ER, positive disease.

NOTE Confidence: 0.888794134

00:13:38.842 --> 00:13:41.772 We're looking at using oral

NOTE Confidence: 0.888794134

00:13:41.772 --> 00:13:44.120 targeted therapies these drugs.

NOTE Confidence: 0.888794134

00:13:44.120 --> 00:13:46.311 We like to describe them as things

NOTE Confidence: 0.888794134

00:13:46.311 --> 00:13:48.793 that put the brakes on tumor growth

NOTE Confidence: 0.888794134

00:13:48.793 --> 00:13:50.995 and by slowing down any residual

NOTE Confidence: 0.888794134

00:13:51.064 --> 00:13:52.996 tumor cells that may be left,

NOTE Confidence: 0.888794134

00:13:53.000 --> 00:13:54.488 the anti estrogen therapy

NOTE Confidence: 0.888794134

00:13:54.488 --> 00:13:55.976 can actually work better.

NOTE Confidence: 0.888794134

00:13:55.980 --> 00:13:59.115 So these three examples are examples

NOTE Confidence: 0.888794134

00:13:59.115 --> 00:14:02.145 of how by adding more treatments,

NOTE Confidence: 0.888794134

00:14:02.150 --> 00:14:04.880 that's precise we can actually

NOTE Confidence: 0.888794134

00:14:04.880 --> 00:14:07.610 improve outcomes and breast cancer.

NOTE Confidence: 0.888794134

00:14:07.610 --> 00:14:08.678 Lastly, future opportunities.

NOTE Confidence: 0.888794134

00:14:08.678 --> 00:14:10.814 There are lots of new smarter

NOTE Confidence: 0.888794134

00:14:10.814 --> 00:14:12.548 drugs that are in the horizon,

NOTE Confidence: 0.888794134

00:14:12.550 --> 00:14:13.890 and they're actually here.

00:14:13.890 --> 00:14:16.445 I think this is the future of

00:14:16.445 --> 00:14:17.870 breast cancer chemotherapy.

00:14:17.870 --> 00:14:21.200 They're known as antibody drug conjugates,

00:14:21.200 --> 00:14:23.348 and essentially what it is is

00:14:23.348 --> 00:14:25.570 there is an antibody component.

00:14:25.570 --> 00:14:27.110 And then there's a linker.

00:14:27.110 --> 00:14:29.630 And then the chemo is actually

00:14:29.630 --> 00:14:30.890 very precisely linked,

00:14:30.890 --> 00:14:33.879 and so the drug can actually be

00:14:33.879 --> 00:14:36.415 very precisely delivered to to the

00:14:36.415 --> 00:14:38.755 cells that actually have the target.

00:14:38.760 --> 00:14:41.340 And they're actually here today.

00:14:41.340 --> 00:14:44.000 I mean that this is something that

00:14:44.000 --> 00:14:46.079 we're actually using and in the

00:14:46.079 --> 00:14:48.105 clinic now there are a number of

00:14:48.105 --> 00:14:49.854 them I've chosen to highlight them

NOTE Confidence: 0.888794134

00:14:49.854 --> 00:14:51.814 for two drug known as and her two.

NOTE Confidence: 0.888794134

00:14:51.820 --> 00:14:54.200 This was just presented and

NOTE Confidence: 0.888794134

00:14:54.200 --> 00:14:56.104 dramatic improvement over some

NOTE Confidence: 0.888794134

00:14:56.104 --> 00:14:58.378 of our traditional drugs.

NOTE Confidence: 0.888794134

00:14:58.380 --> 00:15:01.040 So I think what we'll see is

NOTE Confidence: 0.888794134

00:15:01.040 --> 00:15:04.255 earlier use of these antibody drug

NOTE Confidence: 0.888794134

00:15:04.255 --> 00:15:06.824 conjugates in breast cancer with

NOTE Confidence: 0.888794134

00:15:06.824 --> 00:15:09.204 the hope of improving outcomes.

NOTE Confidence: 0.888794134

00:15:09.210 --> 00:15:10.173 So in summary,

NOTE Confidence: 0.888794134

00:15:10.173 --> 00:15:12.099 we have lots of biomarkers and

NOTE Confidence: 0.888794134

00:15:12.099 --> 00:15:13.910 more targeted therapeutics.

NOTE Confidence: 0.888794134

00:15:13.910 --> 00:15:15.875 We need to address equity

NOTE Confidence: 0.888794134

00:15:15.875 --> 00:15:17.447 issues and breast cancer.

NOTE Confidence: 0.888794134

00:15:17.450 --> 00:15:20.726 Lots of multi deep collaborations and whole

NOTE Confidence: 0.888794134

00:15:20.726 --> 00:15:22.735 system thinking and rightsizing therapy.

NOTE Confidence: 0.888794134

00:15:22.735 --> 00:15:24.865 Some people will need less therapy

NOTE Confidence: 0.888794134

00:15:24.865 --> 00:15:26.798 and some people will need more.

NOTE Confidence: 0.888794134

00:15:26.800 --> 00:15:29.170 And throughout all this we want

NOTE Confidence: 0.888794134

00:15:29.170 --> 00:15:31.810 to partner with you hear your

NOTE Confidence: 0.888794134

00:15:31.810 --> 00:15:33.762 thoughts and impressions where

NOTE Confidence: 0.888794134

00:15:33.762 --> 00:15:36.419 one team together with you and.

NOTE Confidence: 0.888794134

00:15:36.420 --> 00:15:36.831 Ultimately,

NOTE Confidence: 0.888794134

00:15:36.831 --> 00:15:39.297 all of these efforts will help

NOTE Confidence: 0.888794134

00:15:39.297 --> 00:15:41.340 us improve patient experience,

NOTE Confidence: 0.888794134

00:15:41.340 --> 00:15:42.466 patient outcomes,

NOTE Confidence: 0.888794134

00:15:42.466 --> 00:15:45.281 and have a more efficient

NOTE Confidence: 0.888794134

00:15:45.281 --> 00:15:46.970 health delivery system.

NOTE Confidence: 0.888794134

00:15:46.970 --> 00:15:48.895 Feel free to put your questions in

NOTE Confidence: 0.888794134

00:15:48.895 --> 00:15:50.989 the chat will have time at the end,

NOTE Confidence: 0.888794134

00:15:50.990 --> 00:15:52.894 but at this point I will turn

NOTE Confidence: 0.888794134

00:15:52.894 --> 00:15:54.670 it over to my colleague,

NOTE Confidence: 0.888794134

00:15:54.670 --> 00:15:57.250 Dr Park who will speak about

NOTE Confidence: 0.888794134

00:15:57.250 --> 00:15:59.730 the latest advances in surgery.

NOTE Confidence: 0.697337056

00:16:02.710 --> 00:16:05.720 Hello I am Tristan Park,

NOTE Confidence: 0.697337056

00:16:05.720 --> 00:16:07.970 I'm a breast surgical oncologist.

NOTE Confidence: 0.697337056

00:16:07.970 --> 00:16:12.330 I'm I will be sharing with you today.

NOTE Confidence: 0.697337056

00:16:12.330 --> 00:16:14.050 Advances in the surgical management

NOTE Confidence: 0.697337056

00:16:14.050 --> 00:16:16.240 of the axilla in breast cancer.

NOTE Confidence: 0.818368976153846

00:16:18.920 --> 00:16:21.980 So when a woman comes to me to get

NOTE Confidence: 0.818368976153846

00:16:21.980 --> 00:16:24.677 her breast cancer treated, there's

NOTE Confidence: 0.818368976153846

00:16:24.677 --> 00:16:27.053 two parts that we have to think about.

NOTE Confidence: 0.818368976153846

00:16:27.060 --> 00:16:29.913 One is the cancer that exists in the breast,

NOTE Confidence: 0.818368976153846

00:16:29.920 --> 00:16:30.920 and then they're great.

NOTE Confidence: 0.818368976153846

00:16:30.920 --> 00:16:32.815 And then we also have to address

NOTE Confidence: 0.818368976153846

00:16:32.815 --> 00:16:34.187 the draining lymph nodes.

NOTE Confidence: 0.818368976153846

00:16:34.190 --> 00:16:36.920 So there's two things that

00:16:36.920 --> 00:16:37.742 are generally done.

00:16:37.742 --> 00:16:39.386 If they don't think that they

00:16:39.386 --> 00:16:41.186 have any cancer in the left notes,

00:16:41.190 --> 00:16:43.360 that's obvious we have to do something

00:16:43.360 --> 00:16:45.430 called a staging study or assessing.

00:16:45.430 --> 00:16:47.278 If there's cancer there, or if there's

00:16:47.278 --> 00:16:49.429 or we have high level of suspicion.

00:16:49.430 --> 00:16:50.966 That the lymph nodes are involved.

00:16:50.970 --> 00:16:53.000 Then we need to address the lymph

00:16:53.000 --> 00:16:55.260 nodes in a therapeutic fashion.

00:16:55.260 --> 00:16:58.844 Remove the cancer and and treat it so

00:16:58.850 --> 00:17:04.415 it's like a two part surgical treatment.

00:17:04.420 --> 00:17:05.804 Historically, many,

00:17:05.804 --> 00:17:07.880 many decades ago,

00:17:07.880 --> 00:17:09.984 the only way to figure out what was

00:17:09.984 --> 00:17:12.293 going on in the axilla was by doing

00:17:12.293 --> 00:17:14.160 a complete lymph node dissection.

00:17:14.160 --> 00:17:16.500 So that's removing many lymph nodes.

00:17:16.500 --> 00:17:18.663 All the lymph nodes in the axilla

00:17:18.663 --> 00:17:20.449 at the levels one and two.

00:17:20.450 --> 00:17:22.658 So level one is this green area here,

00:17:22.660 --> 00:17:24.620 level 2 is this blue area here.

00:17:24.620 --> 00:17:26.580 That's all in relation to one of

00:17:26.580 --> 00:17:28.319 your chest wall muscles called

00:17:28.319 --> 00:17:29.579 the pectoralis minor.

00:17:29.580 --> 00:17:32.201 So way back when in the 1970s and 80s,

00:17:32.201 --> 00:17:33.986 this was the only way to figure out what

00:17:33.986 --> 00:17:35.477 was going on in the axilla everything.

00:17:35.480 --> 00:17:38.032 Was taken out each and every left node

00:17:38.032 --> 00:17:40.661 was looked at carefully and we could

00:17:40.661 --> 00:17:42.995 determine nodes were not involved or

NOTE Confidence: 0.818368976153846

00:17:42.995 --> 00:17:45.715 there was some cancer involved in the nodes.

NOTE Confidence: 0.818368976153846

00:17:45.720 --> 00:17:46.228 Uhm,

NOTE Confidence: 0.818368976153846

00:17:46.228 --> 00:17:47.244 there was.

NOTE Confidence: 0.818368976153846

00:17:47.244 --> 00:17:50.252 There is a significant and definite

NOTE Confidence: 0.818368976153846

00:17:50.252 --> 00:17:52.100 morbidity and complication rate

NOTE Confidence: 0.818368976153846

00:17:52.100 --> 00:17:54.818 with this type of surgery and

NOTE Confidence: 0.818368976153846

00:17:54.818 --> 00:17:56.858 there's blood like blood vessels,

NOTE Confidence: 0.818368976153846

00:17:56.860 --> 00:17:57.244 nerves,

NOTE Confidence: 0.818368976153846

00:17:57.244 --> 00:17:59.548 arteries and veins to be wary

NOTE Confidence: 0.818368976153846

00:17:59.548 --> 00:18:01.180 of in this area.

NOTE Confidence: 0.818368976153846

00:18:01.180 --> 00:18:03.399 And most people have a drain placed

NOTE Confidence: 0.818368976153846

00:18:03.399 --> 00:18:05.590 and they have to stay overnight.

NOTE Confidence: 0.818368976153846

00:18:05.590 --> 00:18:08.326 So it later on in the 19 around like

NOTE Confidence: 0.818368976153846

00:18:08.326 --> 00:18:11.079 the 70s and 80s people were thinking

NOTE Confidence: 0.818368976153846

00:18:11.079 --> 00:18:14.018 maybe there's a way to assess the

NOTE Confidence: 0.818368976153846

00:18:14.018 --> 00:18:16.574 lymph nodes in the axilla without

NOTE Confidence: 0.818368976153846

00:18:16.574 --> 00:18:17.960 removing all of the lymph nodes,

NOTE Confidence: 0.818368976153846

00:18:17.960 --> 00:18:19.790 like not removing like every.

NOTE Confidence: 0.871761985833333

00:18:22.780 --> 00:18:24.558 I could, you know, sometimes be up

NOTE Confidence: 0.871761985833333

00:18:24.558 --> 00:18:27.098 to 20 to 30 efforts so the this was

NOTE Confidence: 0.871761985833333

00:18:27.098 --> 00:18:29.310 the era of the Sentinel node biopsy.

NOTE Confidence: 0.871761985833333

00:18:29.310 --> 00:18:31.702 So the way that this was done is

NOTE Confidence: 0.871761985833333

00:18:31.702 --> 00:18:34.500 that the breast is injected with a

NOTE Confidence: 0.871761985833333

00:18:34.500 --> 00:18:37.067 special material called either a blue

NOTE Confidence: 0.871761985833333

00:18:37.067 --> 00:18:39.685 dye or a radioactive tracer or both.

NOTE Confidence: 0.871761985833333

00:18:39.690 --> 00:18:41.300 And then it's quite miraculous.

NOTE Confidence: 0.871761985833333

00:18:41.300 --> 00:18:43.060 'cause as a surgeon I'm the one that

NOTE Confidence: 0.871761985833333

00:18:43.060 --> 00:18:44.523 injects the breast prior to surgery

NOTE Confidence: 0.871761985833333

00:18:44.523 --> 00:18:46.269 and it's better like this and every

NOTE Confidence: 0.871761985833333

00:18:46.269 --> 00:18:47.935 time within 30 seconds the die has

NOTE Confidence: 0.871761985833333

00:18:47.935 --> 00:18:49.422 reached the most important nodes

NOTE Confidence: 0.871761985833333

00:18:49.422 --> 00:18:51.760 in the axilla or the Sentinel left

NOTE Confidence: 0.871761985833333

00:18:51.830 --> 00:18:53.840 nodes or the first training left.

NOTE Confidence: 0.871761985833333

00:18:53.840 --> 00:18:56.042 Uhm, so then these first rating

NOTE Confidence: 0.871761985833333

00:18:56.042 --> 00:18:58.200 left nodes is on average,

NOTE Confidence: 0.871761985833333

00:18:58.200 --> 00:19:00.503 it's it's two or three is identified

NOTE Confidence: 0.871761985833333

00:19:00.503 --> 00:19:02.846 by looking for a blue color or

NOTE Confidence: 0.871761985833333

00:19:02.846 --> 00:19:04.778 using a special probe that detects

NOTE Confidence: 0.871761985833333

00:19:04.851 --> 00:19:07.236 radioactive dye that's also injected.

NOTE Confidence: 0.871761985833333

00:19:07.240 --> 00:19:08.860 And then you know small incision

NOTE Confidence: 0.871761985833333

00:19:08.860 --> 00:19:10.945 is made and a couple of lymph

NOTE Confidence: 0.871761985833333

00:19:10.945 --> 00:19:12.823 nodes are removed and looked at.

NOTE Confidence: 0.871761985833333

00:19:12.830 --> 00:19:16.484 Looked at carefully so this is clearly a big.

NOTE Confidence: 0.871761985833333

00:19:16.490 --> 00:19:18.565 Big switch from doing this

NOTE Confidence: 0.871761985833333

00:19:18.565 --> 00:19:20.225 actually left no dissection.

NOTE Confidence: 0.871761985833333

00:19:20.230 --> 00:19:22.722 Removing all these lymph nodes and all

NOTE Confidence: 0.871761985833333

00:19:22.722 --> 00:19:24.380 the complications associated with that,

NOTE Confidence: 0.871761985833333

00:19:24.380 --> 00:19:26.452 you could also do some preliminary assessment

NOTE Confidence: 0.871761985833333

00:19:26.452 --> 00:19:28.614 of these lymph nodes by the pathologist

NOTE Confidence: 0.871761985833333

00:19:28.614 --> 00:19:30.450 by something called a frozen section,

NOTE Confidence: 0.871761985833333

00:19:30.450 --> 00:19:33.627 which is kind of a looking at a couple

NOTE Confidence: 0.871761985833333

00:19:33.627 --> 00:19:36.740 of slices of the left node to eyeball

NOTE Confidence: 0.871761985833333

00:19:36.740 --> 00:19:39.320 if there is any cancer involvement.

NOTE Confidence: 0.871761985833333

00:19:39.320 --> 00:19:41.516 So clearly these are two different

NOTE Confidence: 0.871761985833333

00:19:41.516 --> 00:19:42.614 types of surgeries,

NOTE Confidence: 0.871761985833333

00:19:42.620 --> 00:19:44.835 and there's complications related to

NOTE Confidence: 0.871761985833333

00:19:44.835 --> 00:19:47.755 both that are shared lymph edema or

NOTE Confidence: 0.871761985833333

00:19:47.755 --> 00:19:50.835 swelling of the arm is the most kind of

NOTE Confidence: 0.871761985833333

00:19:50.835 --> 00:19:52.758 dreaded complication and intentional left.

NOTE Confidence: 0.871761985833333

00:19:52.758 --> 00:19:53.256 No biopsy,

NOTE Confidence: 0.871761985833333

00:19:53.256 --> 00:19:55.111 which is just removal of few nodes

NOTE Confidence: 0.871761985833333

00:19:55.111 --> 00:19:56.676 versus axillary left node dissection,

NOTE Confidence: 0.871761985833333

00:19:56.680 --> 00:19:58.784 which is removal of all the left nodes.

NOTE Confidence: 0.871761985833333

00:19:58.790 --> 00:20:00.175 There's a lot more lymphoedema

NOTE Confidence: 0.871761985833333

00:20:00.175 --> 00:20:01.966 in the axillary if you get

NOTE Confidence: 0.871761985833333

00:20:01.966 --> 00:20:03.350 the full axillary dissection.

NOTE Confidence: 0.871761985833333

00:20:03.350 --> 00:20:04.622 The literature sites about

NOTE Confidence: 0.871761985833333

00:20:04.622 --> 00:20:06.579 1 to 3% in center left,

NOTE Confidence: 0.871761985833333

00:20:06.579 --> 00:20:08.577 no biopsy and up to 30%.

NOTE Confidence: 0.871761985833333

00:20:08.580 --> 00:20:11.140 If you get all of your left notes.

NOTE Confidence: 0.871761985833333

00:20:11.140 --> 00:20:13.310 These other complications hematoma injury

NOTE Confidence: 0.871761985833333

00:20:13.310 --> 00:20:16.960 to the nerves in the neighborhood Olympo.

NOTE Confidence: 0.871761985833333

00:20:16.960 --> 00:20:18.365 See Laura would affection are

NOTE Confidence: 0.871761985833333

00:20:18.365 --> 00:20:20.259 all present and as you can see,

NOTE Confidence: 0.871761985833333

00:20:20.260 --> 00:20:22.199 although these numbers are very very low,

NOTE Confidence: 0.871761985833333

00:20:22.200 --> 00:20:23.622 it's always you know three or

NOTE Confidence: 0.871761985833333

00:20:23.622 --> 00:20:24.333 four times more.

NOTE Confidence: 0.871761985833333

00:20:24.340 --> 00:20:27.586 In the axillary livnot dissection group.

NOTE Confidence: 0.871761985833333

00:20:27.590 --> 00:20:30.404 So when I was doing this presentation,

NOTE Confidence: 0.871761985833333

00:20:30.410 --> 00:20:31.290 I was thinking, you know,

NOTE Confidence: 0.871761985833333

00:20:31.290 --> 00:20:32.390 maybe some people don't know

NOTE Confidence: 0.871761985833333

00:20:32.390 --> 00:20:33.490 exactly what the fadima is.

NOTE Confidence: 0.871761985833333

00:20:33.490 --> 00:20:34.848 They probably know that it means swelling,

NOTE Confidence: 0.871761985833333

00:20:34.850 --> 00:20:37.098 but you know, there's actually kind of a

NOTE Confidence: 0.871761985833333

00:20:37.098 --> 00:20:38.948 definition for it and different grades,

NOTE Confidence: 0.871761985833333

00:20:38.950 --> 00:20:41.030 so there's great stage one,

NOTE Confidence: 0.871761985833333

00:20:41.030 --> 00:20:42.062 which is up clinical.

NOTE Confidence: 0.871761985833333

00:20:42.062 --> 00:20:44.100 So there's no clinical signs of swelling,

NOTE Confidence: 0.871761985833333

00:20:44.100 --> 00:20:45.678 but there's a sensation of numbness,

NOTE Confidence: 0.871761985833333

00:20:45.680 --> 00:20:48.368 achiness and heaviness there stage two,

NOTE Confidence: 0.871761985833333

00:20:48.370 --> 00:20:49.602 which is mild lymphoedema,

NOTE Confidence: 0.871761985833333

00:20:49.602 --> 00:20:51.830 which results in a soft pitting edema.

NOTE Confidence: 0.871761985833333

00:20:51.830 --> 00:20:53.810 That's basically their arm looks swollen,

34

NOTE Confidence: 0.871761985833333

00:20:53.810 --> 00:20:55.250 and if you press your finger into it,

NOTE Confidence: 0.871761985833333

00:20:55.250 --> 00:20:57.330 it leaves an indentation, but.

NOTE Confidence: 0.871761985833333

00:20:57.330 --> 00:20:59.380 There's no fibrosis or scarring,

NOTE Confidence: 0.871761985833333

00:20:59.380 --> 00:21:01.474 and if you elevate the arm

NOTE Confidence: 0.871761985833333

00:21:01.474 --> 00:21:03.300 this the swelling goes away.

NOTE Confidence: 0.871761985833333

00:21:03.300 --> 00:21:05.215 Moderate or stage three lymph

NOTE Confidence: 0.871761985833333

00:21:05.215 --> 00:21:06.747 edema is more severe.

NOTE Confidence: 0.871761985833333

00:21:06.750 --> 00:21:10.830 There's more fibrous findings and scarring,

NOTE Confidence: 0.834070441428571

00:21:10.830 --> 00:21:12.342 and the limb elevation

NOTE Confidence: 0.834070441428571

00:21:12.342 --> 00:21:13.476 doesn't reverse anything.

NOTE Confidence: 0.834070441428571

00:21:13.480 --> 00:21:14.804 And then severe lymphoedema

NOTE Confidence: 0.834070441428571

00:21:14.804 --> 00:21:16.884 or stage four is, you know,

NOTE Confidence: 0.834070441428571

00:21:16.884 --> 00:21:19.523 severe scarring and you get skin changes.

NOTE Confidence: 0.834070441428571

00:21:19.530 --> 00:21:23.250 And it's quite kind of irreversible

NOTE Confidence: 0.834070441428571

00:21:23.250 --> 00:21:25.446 and usually moderate to severe.

NOTE Confidence: 0.834070441428571

00:21:25.446 --> 00:21:27.416 Lymphoedema is the type that.

NOTE Confidence: 0.834070441428571

00:21:27.420 --> 00:21:29.142 Is permanent and is limiting to

NOTE Confidence: 0.834070441428571

00:21:29.142 --> 00:21:30.919 your ability to use the heart,

NOTE Confidence: 0.834070441428571

00:21:30.920 --> 00:21:33.050 which could be problematic if

NOTE Confidence: 0.834070441428571

00:21:33.050 --> 00:21:35.450 you're if that's your dominant arm.

NOTE Confidence: 0.834070441428571

00:21:35.450 --> 00:21:36.766 There's varying different definitions

NOTE Confidence: 0.834070441428571

00:21:36.766 --> 00:21:38.974 of exactly how to measure this,

NOTE Confidence: 0.834070441428571

00:21:38.980 --> 00:21:43.726 but a lot of clinicians have reported.

NOTE Confidence: 0.834070441428571

00:21:43.730 --> 00:21:44.951 A circumference difference

NOTE Confidence: 0.834070441428571

00:21:44.951 --> 00:21:46.986 of two or more centimeters,

NOTE Confidence: 0.834070441428571

00:21:46.990 --> 00:21:49.294 or a volume difference of 200

NOTE Confidence: 0.834070441428571

00:21:49.294 --> 00:21:51.643 millimeters or more if you compare

NOTE Confidence: 0.834070441428571

00:21:51.643 --> 00:21:53.857 it to your non involved arm.

NOTE Confidence: 0.834070441428571

00:21:53.860 --> 00:21:55.202 So uhm,

NOTE Confidence: 0.834070441428571

00:21:55.202 --> 00:21:59.538 basically this is the history of the central.

NOTE Confidence: 0.834070441428571

00:21:59.540 --> 00:22:01.120 If no biopsy versus actually

NOTE Confidence: 0.834070441428571

00:22:01.120 --> 00:22:02.068 left node dissection.

NOTE Confidence: 0.834070441428571

00:22:02.070 --> 00:22:05.054 Overall the big picture is as time went

NOTE Confidence: 0.834070441428571

00:22:05.054 --> 00:22:08.547 on we replaced this lymph node biopsy.

NOTE Confidence: 0.834070441428571

00:22:08.550 --> 00:22:09.750 We've replaced that.

NOTE Confidence: 0.834070441428571

00:22:09.750 --> 00:22:11.350 Actually live dissection with

NOTE Confidence: 0.834070441428571

00:22:11.350 --> 00:22:13.446 this less invasive lymph node

NOTE Confidence: 0.834070441428571

00:22:13.446 --> 00:22:15.110 biopsy for multiple indications.

NOTE Confidence: 0.834070441428571

00:22:15.110 --> 00:22:17.276 So way back in the 1960s,

NOTE Confidence: 0.834070441428571

00:22:17.280 --> 00:22:18.548 Doctor Gould defined the

NOTE Confidence: 0.834070441428571

00:22:18.548 --> 00:22:19.816 term central lymph node,

NOTE Confidence: 0.834070441428571

00:22:19.820 --> 00:22:21.444 meaning the first draining

NOTE Confidence: 0.834070441428571

00:22:21.444 --> 00:22:23.060 lymph node in 1977.

NOTE Confidence: 0.834070441428571

00:22:23.060 --> 00:22:25.460 This procedure of identifying the first

NOTE Confidence: 0.834070441428571

00:22:25.460 --> 00:22:27.844 training left node was described by

NOTE Confidence: 0.834070441428571

00:22:27.844 --> 00:22:30.124 a doctor at Memorial Sloan Kettering,

NOTE Confidence: 0.834070441428571

00:22:30.130 --> 00:22:32.468 who was a fellow and was actually

NOTE Confidence: 0.834070441428571

00:22:32.468 --> 00:22:34.122 studying penile cancers and trying

NOTE Confidence: 0.834070441428571

00:22:34.122 --> 00:22:35.880 to find the draining lymph nodes

NOTE Confidence: 0.834070441428571

00:22:35.880 --> 00:22:38.524 in the treatment of that in 1999.

NOTE Confidence: 0.834070441428571

00:22:38.524 --> 00:22:41.506 The use of the radioactive tracer

NOTE Confidence: 0.834070441428571

00:22:41.506 --> 00:22:44.129 was reported by Doctor Morton,

NOTE Confidence: 0.834070441428571

00:22:44.130 --> 00:22:47.127 a luminary in the field in the in the

NOTE Confidence: 0.834070441428571

00:22:47.127 --> 00:22:51.054 setting of Melanoma surgery in 1994.

NOTE Confidence: 0.834070441428571

00:22:51.054 --> 00:22:53.168 Doctor giuliano.

NOTE Confidence: 0.834070441428571

00:22:53.170 --> 00:22:55.456 Seminole figure in the role of

NOTE Confidence: 0.834070441428571

00:22:55.456 --> 00:22:57.570 lymph nodes in breast cancer,

NOTE Confidence: 0.834070441428571

00:22:57.570 --> 00:22:59.306 described left no mapping and sent a

NOTE Confidence: 0.834070441428571

00:22:59.306 --> 00:23:00.940 love note biopsy for breast cancer.

NOTE Confidence: 0.834070441428571

00:23:00.940 --> 00:23:03.012 So all of this stuff from 1960

NOTE Confidence: 0.834070441428571

00:23:03.012 --> 00:23:05.265 to 1994 talks more about the

NOTE Confidence: 0.834070441428571

00:23:05.265 --> 00:23:06.829 central lymph node biopsy.

NOTE Confidence: 0.834070441428571

00:23:06.830 --> 00:23:08.138 Replacing axillary dissection for

NOTE Confidence: 0.834070441428571

00:23:08.138 --> 00:23:10.100 staging or just kind of figuring

NOTE Confidence: 0.834070441428571

00:23:10.152 --> 00:23:11.916 out figuring out if the lymph nodes

NOTE Confidence: 0.834070441428571

00:23:11.916 --> 00:23:13.414 are involved or figure out what's

NOTE Confidence: 0.834070441428571

00:23:13.414 --> 00:23:15.463 going on in the in the lymph nodes.

NOTE Confidence: 0.834070441428571

00:23:15.463 --> 00:23:19.540 What I'd like to focus on this talk is

NOTE Confidence: 0.834070441428571

00:23:19.644 --> 00:23:23.268 the really kind of milestone mental.

NOTE Confidence: 0.834070441428571

00:23:23.270 --> 00:23:25.568 Cut a groundbreaking changes in the

NOTE Confidence: 0.834070441428571

00:23:25.568 --> 00:23:27.968 past decade regarding the use of

NOTE Confidence: 0.834070441428571

00:23:27.968 --> 00:23:29.978 sentimental boxy as potential therapy

NOTE Confidence: 0.834070441428571

00:23:29.978 --> 00:23:32.438 to replace actually left no dissection.

NOTE Confidence: 0.834070441428571

00:23:32.440 --> 00:23:34.300 If you have known tumor.

NOTE Confidence: 0.834070441428571

00:23:34.300 --> 00:23:38.148 Known cancer in cancer burden in your axilla.

NOTE Confidence: 0.834070441428571

00:23:38.150 --> 00:23:40.415 So I'll be talking about low

NOTE Confidence: 0.834070441428571

00:23:40.415 --> 00:23:41.945 volume of disease in your XL.

NOTE Confidence: 0.834070441428571

00:23:41.950 --> 00:23:44.886 A higher volume of disease in the axilla,

NOTE Confidence: 0.834070441428571

00:23:44.890 --> 00:23:46.318 and then even more higher volume

NOTE Confidence: 0.834070441428571

00:23:46.318 --> 00:23:47.650 of disease in your axilla,

NOTE Confidence: 0.834070441428571

00:23:47.650 --> 00:23:49.250 and how we're continuously pushing

NOTE Confidence: 0.834070441428571

00:23:49.250 --> 00:23:51.223 the envelope and that you know

NOTE Confidence: 0.834070441428571

00:23:51.223 --> 00:23:53.083 things that were done that would

NOTE Confidence: 0.834070441428571

00:23:53.083 --> 00:23:54.710 have been considered malpractice.

NOTE Confidence: 0.834070441428571

00:23:54.710 --> 00:23:56.761 When I was a medical student is

NOTE Confidence: 0.834070441428571

00:23:56.761 --> 00:23:58.296 now considered well studied,

NOTE Confidence: 0.834070441428571

00:23:58.296 --> 00:24:01.134 safe and highly recommended in kind

NOTE Confidence: 0.834070441428571

00:24:01.134 --> 00:24:02.898 of personalizing and downsizing the

NOTE Confidence: 0.834070441428571

00:24:02.898 --> 00:24:04.830 type of actuaries surgery you get

NOTE Confidence: 0.834070441428571

00:24:04.880 --> 00:24:06.536 as a breast breast cancer patient.

NOTE Confidence: 0.783362613076923

00:24:09.130 --> 00:24:10.506 So milestone one do we have to do

NOTE Confidence: 0.783362613076923

00:24:10.506 --> 00:24:11.928 a full access right dissection?

NOTE Confidence: 0.783362613076923

00:24:11.930 --> 00:24:14.050 If we find cancer in the lymph nodes

NOTE Confidence: 0.783362613076923

00:24:14.050 --> 00:24:15.913 after surgery and this is in the setting

NOTE Confidence: 0.783362613076923

00:24:15.913 --> 00:24:17.828 of you have a small tumor burden.

NOTE Confidence: 0.783362613076923

00:24:17.830 --> 00:24:18.730 The left nodes.

NOTE Confidence: 0.783362613076923

00:24:18.730 --> 00:24:20.830 This is also called clinically no negative.

NOTE Confidence: 0.783362613076923

00:24:20.830 --> 00:24:23.630 This patient has a normal feeling axilla,

NOTE Confidence: 0.783362613076923

00:24:23.630 --> 00:24:25.891 the axillary left nose look normal on

NOTE Confidence: 0.783362613076923

00:24:25.891 --> 00:24:28.288 imaging and we go and do the surgery,

NOTE Confidence: 0.783362613076923

00:24:28.290 --> 00:24:29.158 and lo and behold,

NOTE Confidence: 0.783362613076923

00:24:29.158 --> 00:24:30.590 on the central lymph nodes there's a.

NOTE Confidence: 0.783362613076923

00:24:30.590 --> 00:24:32.487 There's a few lymph nodes at Farber,

NOTE Confidence: 0.783362613076923

00:24:32.490 --> 00:24:33.438 some cancer cells.

NOTE Confidence: 0.820846208461539

00:24:36.510 --> 00:24:38.393 So with the acceptance of Sentinel lymph

NOTE Confidence: 0.820846208461539

00:24:38.393 --> 00:24:40.239 node biopsy as a staging technique,

NOTE Confidence: 0.820846208461539

00:24:40.240 --> 00:24:42.688 a lot of clinicians were thinking,

NOTE Confidence: 0.820846208461539

00:24:42.690 --> 00:24:44.064 you know, there's very low amount

NOTE Confidence: 0.820846208461539

00:24:44.064 --> 00:24:45.560 of cancer in these lymph nodes.

NOTE Confidence: 0.820846208461539

00:24:45.560 --> 00:24:47.882 Maybe we don't have to do a full actually

NOTE Confidence: 0.820846208461539

00:24:47.882 --> 00:24:49.625 dissection so they were just doing this.

NOTE Confidence: 0.820846208461539

00:24:49.630 --> 00:24:51.606 You know, even before the studies came out,

NOTE Confidence: 0.820846208461539

00:24:51.610 --> 00:24:54.249 so in the 1990s and early 2000s,

NOTE Confidence: 0.820846208461539

00:24:54.250 --> 00:24:56.875 almost 20% of practitioners were doing this,

NOTE Confidence: 0.820846208461539

00:24:56.880 --> 00:25:01.146 kind of as a kind of.

NOTE Confidence: 0.820846208461539

00:25:01.150 --> 00:25:03.400 But by their own clinical judgment.

NOTE Confidence: 0.73307587875

00:25:07.660 --> 00:25:11.996 So this, uh, this landmark trial Acogs 11,

NOTE Confidence: 0.73307587875

00:25:12.000 --> 00:25:13.398 was the trial that looked at

NOTE Confidence: 0.73307587875

00:25:13.398 --> 00:25:14.780 this in a rigorous fashion.

NOTE Confidence: 0.73307587875

00:25:14.780 --> 00:25:16.188 It was a multicenter,

NOTE Confidence: 0.73307587875

00:25:16.188 --> 00:25:17.596 randomized prospective trial which

NOTE Confidence: 0.73307587875

00:25:17.596 --> 00:25:19.898 is like the gold standard of trials,

NOTE Confidence: 0.73307587875

00:25:19.900 --> 00:25:21.300 and this definitively looked at.

NOTE Confidence: 0.73307587875

00:25:21.300 --> 00:25:22.740 If you had very small amount

00:25:22.740 --> 00:25:24.390 of cancer in your lymph nodes,

00:25:24.390 --> 00:25:25.966 do you really need a full extra lift?

00:25:25.970 --> 00:25:26.518 No dissection?

00:25:26.518 --> 00:25:28.710 Or is the lymph node biopsy enough so

00:25:28.767 --> 00:25:30.885 these folks had small breast cancers

00:25:30.885 --> 00:25:32.687 are clinically negative axilla and

00:25:32.687 --> 00:25:34.679 they were to undergo lumpectomy with

00:25:34.679 --> 00:25:35.987 whole breast radiation therapy,

00:25:35.987 --> 00:25:37.522 which is considered the definition

00:25:37.522 --> 00:25:38.443 of breast cancer.

00:25:38.450 --> 00:25:40.208 Patient therapy they would get a

00:25:40.208 --> 00:25:41.865 Sentinel lymph node biopsy and if

00:25:41.865 --> 00:25:43.363 they had one to two lymph nodes

00:25:43.363 --> 00:25:45.117 that harbored cancer cells in them,

00:25:45.120 --> 00:25:48.066 they either got nothing else or

00:25:48.066 --> 00:25:50.115 they got the further surgery.

NOTE Confidence: 0.73307587875

00:25:50.115 --> 00:25:51.535 The complete axillary dissection.

NOTE Confidence: 0.871175820454545

00:25:53.820 --> 00:25:56.036 So this study showed that there was no

NOTE Confidence: 0.871175820454545

00:25:56.036 --> 00:25:57.872 difference if you got no further surgery

NOTE Confidence: 0.871175820454545

00:25:57.872 --> 00:26:00.219 or you got the full axillary dissection.

NOTE Confidence: 0.871175820454545

00:26:00.220 --> 00:26:02.257 There was no difference in local recurrence,

NOTE Confidence: 0.871175820454545

00:26:02.260 --> 00:26:04.370 meaning recurrence in your armpit,

NOTE Confidence: 0.871175820454545

00:26:04.370 --> 00:26:05.994 and there's no difference in how long

NOTE Confidence: 0.871175820454545

00:26:05.994 --> 00:26:07.999 you lived or five year overall survival.

NOTE Confidence: 0.871175820454545

00:26:08.000 --> 00:26:10.198 It was equivalent, and then they found

NOTE Confidence: 0.871175820454545

00:26:10.198 --> 00:26:12.604 this study up in another nine years

NOTE Confidence: 0.871175820454545

00:26:12.604 --> 00:26:14.704 and the original findings held true.

NOTE Confidence: 0.871175820454545

00:26:14.710 --> 00:26:16.640 Your local recurrence and your

NOTE Confidence: 0.871175820454545

00:26:16.640 --> 00:26:18.184 overall survival were similar.

NOTE Confidence: 0.873262554761905

00:26:21.550 --> 00:26:23.107 So take on point is if you have a

NOTE Confidence: 0.873262554761905

00:26:23.107 --> 00:26:24.936 small breast cancer that's going to be

NOTE Confidence: 0.873262554761905

00:26:24.936 --> 00:26:26.500 treated with lumpectomy and radiation.

NOTE Confidence: 0.873262554761905

00:26:26.500 --> 00:26:27.928 You could have up to two lymph

NOTE Confidence: 0.873262554761905

00:26:27.928 --> 00:26:29.248 nodes that have cancer in them,

NOTE Confidence: 0.873262554761905

00:26:29.250 --> 00:26:30.450 and you don't need a full,

NOTE Confidence: 0.873262554761905

00:26:30.450 --> 00:26:31.614 actually lift, no dissection,

NOTE Confidence: 0.873262554761905

00:26:31.614 --> 00:26:33.360 and you'll still get a great

NOTE Confidence: 0.873262554761905

00:26:33.420 --> 00:26:35.150 treatment that will render you

NOTE Confidence: 0.873262554761905

00:26:35.150 --> 00:26:36.534 with excellent Disease Control.

NOTE Confidence: 0.873262554761905

00:26:36.540 --> 00:26:37.524 That's equivalent to getting

NOTE Confidence: 0.873262554761905

00:26:37.524 --> 00:26:38.754 all your left nodes out.

NOTE Confidence: 0.85726543625

00:26:41.520 --> 00:26:42.900 So that's milestone one.

NOTE Confidence: 0.85726543625

00:26:42.900 --> 00:26:44.280 There was a there's.

NOTE Confidence: 0.85726543625

00:26:44.280 --> 00:26:46.093 This was further kind of, UM,

NOTE Confidence: 0.85726543625

00:26:46.093 --> 00:26:48.144 supported by a study that was done

NOTE Confidence: 0.85726543625

00:26:48.144 --> 00:26:50.198 in Europe called the Amero study,

NOTE Confidence: 0.85726543625

00:26:50.200 --> 00:26:51.676 which looked at instead of doing

NOTE Confidence: 0.85726543625

00:26:51.676 --> 00:26:53.210 an axillary left node dissection.

NOTE Confidence: 0.85726543625

00:26:53.210 --> 00:26:56.338 They did actually radiation,

NOTE Confidence: 0.85726543625

00:26:56.338 --> 00:26:58.536 and can we wait for the milestone

NOTE Confidence: 0.85726543625

00:26:58.536 --> 00:27:00.070 was could we radiate the Excel

NOTE Confidence: 0.85726543625

00:27:00.070 --> 00:27:01.420 instead of doing more surgery?

NOTE Confidence: 0.85726543625

00:27:01.420 --> 00:27:03.268 If there's cancer in the left nodes,

NOTE Confidence: 0.85726543625

00:27:03.270 --> 00:27:04.720 the kind of the subtleties,

NOTE Confidence: 0.85726543625

00:27:04.720 --> 00:27:07.998 and this was you were not necessarily

NOTE Confidence: 0.85726543625

00:27:07.998 --> 00:27:09.383 getting lumpectomy and radiation as

NOTE Confidence: 0.85726543625

00:27:09.383 --> 00:27:11.077 part of your breast cancer treatment.

NOTE Confidence: 0.85726543625

00:27:11.080 --> 00:27:12.862 You could also be getting up stuck to me.

NOTE Confidence: 0.85726543625

00:27:12.870 --> 00:27:14.676 So that was also a variation,

NOTE Confidence: 0.85726543625

00:27:14.680 --> 00:27:17.362 and this study also showed basically

NOTE Confidence: 0.85726543625

00:27:17.362 --> 00:27:20.039 that your overall survival and you're

NOTE Confidence: 0.85726543625

00:27:20.039 --> 00:27:22.469 disease free survival with the same

NOTE Confidence: 0.85726543625

00:27:22.469 --> 00:27:25.265 whether or not you've got all the lymph

NOTE Confidence: 0.85726543625

00:27:25.265 --> 00:27:27.495 nodes out or you got actually radiation.

NOTE Confidence: 0.85726543625

00:27:27.495 --> 00:27:30.069 And the nice thing was the rate of

NOTE Confidence: 0.85726543625

00:27:30.069 --> 00:27:32.197 lipedema and the radiation group was about

NOTE Confidence: 0.85726543625

00:27:32.197 --> 00:27:34.990 half of the axillary lymph node biopsy group.

NOTE Confidence: 0.85726543625

00:27:34.990 --> 00:27:38.536 So the most obvious one is at five years.

NOTE Confidence: 0.85726543625

00:27:38.540 --> 00:27:40.450 If you had actually radiation,

NOTE Confidence: 0.85726543625

00:27:40.450 --> 00:27:43.026 you had a 6% risk of lipedema.

NOTE Confidence: 0.85726543625

00:27:43.030 --> 00:27:44.798 And if you had a full actually left

NOTE Confidence: 0.85726543625

00:27:44.798 --> 00:27:46.472 outer section here at 13% of us,

NOTE Confidence: 0.85726543625

00:27:46.472 --> 00:27:51.530 so clearly less that more than half decrease.

NOTE Confidence: 0.85726543625

00:27:51.530 --> 00:27:53.410 So take on point as if you have

NOTE Confidence: 0.85726543625

00:27:53.410 --> 00:27:55.097 breast cancer not treated with

NOTE Confidence: 0.85726543625

00:27:55.097 --> 00:27:56.649 breast conservation i.e mastectomy,

NOTE Confidence: 0.85726543625

00:27:56.650 --> 00:27:59.738 so a more kind of loosening the surgical

NOTE Confidence: 0.85726543625

00:27:59.738 --> 00:28:02.769 criteria and you have positive lymph nodes.

NOTE Confidence: 0.85726543625

00:28:02.770 --> 00:28:03.481 This can be.

NOTE Confidence: 0.85726543625

00:28:03.481 --> 00:28:05.458 This may be treated with radiation to axilla

NOTE Confidence: 0.85726543625

00:28:05.458 --> 00:28:07.570 and you may not need full axillary surgery,

NOTE Confidence: 0.85726543625

00:28:07.570 --> 00:28:10.738 so they were pushing the envelope some more.

NOTE Confidence: 0.85726543625

00:28:10.740 --> 00:28:13.678 And then milestone two was, you know,

NOTE Confidence: 0.85726543625

00:28:13.678 --> 00:28:16.230 let's see if we could push the envelope

NOTE Confidence: 0.85726543625

00:28:16.296 --> 00:28:18.584 some more and go even with a higher

NOTE Confidence: 0.85726543625

00:28:18.584 --> 00:28:21.176 level of disease burden in your axilla.

NOTE Confidence: 0.85726543625

00:28:21.180 --> 00:28:24.600 Could you read this section if you

NOTE Confidence: 0.85726543625

00:28:24.600 --> 00:28:26.219 have known cancer in the left nodes?

NOTE Confidence: 0.85726543625

00:28:26.220 --> 00:28:27.572 AKA clinically node positive

NOTE Confidence: 0.85726543625

00:28:27.572 --> 00:28:29.600 more tumor in the lymph nodes,

NOTE Confidence: 0.85726543625

00:28:29.600 --> 00:28:31.808 hard burden of disease?

NOTE Confidence: 0.85726543625

00:28:31.810 --> 00:28:34.546 So if you have clinically node

NOTE Confidence: 0.85726543625

00:28:34.546 --> 00:28:36.848 positive cancer like you go in

48

NOTE Confidence: 0.85726543625

00:28:36.848 --> 00:28:38.583 your lymph nodes feel large.

NOTE Confidence: 0.85726543625

00:28:38.590 --> 00:28:40.475 They live large on imaging

NOTE Confidence: 0.85726543625

00:28:40.475 --> 00:28:41.983 biopsied and there's cancer.

NOTE Confidence: 0.85726543625

00:28:41.990 --> 00:28:42.708 There's obvious,

NOTE Confidence: 0.85726543625

00:28:42.708 --> 00:28:44.862 documented cancer in her left nodes

NOTE Confidence: 0.85726543625

00:28:44.862 --> 00:28:47.110 in this day and age we always

NOTE Confidence: 0.85726543625

00:28:47.110 --> 00:28:49.630 treated with chemotherapy first.

NOTE Confidence: 0.85726543625

00:28:49.630 --> 00:28:51.534 It's also called neoadjuvant

NOTE Confidence: 0.85726543625

00:28:51.534 --> 00:28:52.604 chemotherapy for the,

NOTE Confidence: 0.85726543625

00:28:52.604 --> 00:28:54.683 with the hopes that we could shrink

NOTE Confidence: 0.85726543625

00:28:54.683 --> 00:28:56.650 everything up to make the surgery minimized,

NOTE Confidence: 0.85726543625

00:28:56.650 --> 00:28:59.170 and also it gives us great

NOTE Confidence: 0.85726543625

00:28:59.170 --> 00:29:00.430 prognostic information afterwards,

NOTE Confidence: 0.85726543625

00:29:00.430 --> 00:29:02.355 so folks that got chemotherapy

NOTE Confidence: 0.85726543625

00:29:02.355 --> 00:29:04.280 before surgery or new agent.

NOTE Confidence: 0.85726543625

00:29:04.280 --> 00:29:04.820 Chemotherapy,

NOTE Confidence: 0.85726543625

00:29:04.820 --> 00:29:08.984 it was noted that 40% of patients who were

NOTE Confidence: 0.85726543625

00:29:08.984 --> 00:29:11.180 initially tumor bearing in the axilla,

NOTE Confidence: 0.85726543625

00:29:11.180 --> 00:29:13.300 like became no negative after

NOTE Confidence: 0.85726543625

00:29:13.300 --> 00:29:14.996 this new regimen chemotherapy.

NOTE Confidence: 0.85726543625

00:29:15.000 --> 00:29:16.812 So we thought maybe if we

NOTE Confidence: 0.85726543625

00:29:16.812 --> 00:29:18.020 could identify these people,

NOTE Confidence: 0.85726543625

00:29:18.020 --> 00:29:20.442 they don't have to get the the

NOTE Confidence: 0.85726543625

00:29:20.442 --> 00:29:22.385 final axillary surgery or the

NOTE Confidence: 0.85726543625

00:29:22.385 --> 00:29:23.639 full axillary dissection.

NOTE Confidence: 0.85726543625

00:29:23.640 --> 00:29:27.028 So this was the ECOSOC 1071 trial and

NOTE Confidence: 0.85726543625

00:29:27.028 --> 00:29:28.708 basically patients with known cancer

NOTE Confidence: 0.85726543625

00:29:28.708 --> 00:29:30.898 in their lymph nodes were enrolled.

NOTE Confidence: 0.85726543625

00:29:30.900 --> 00:29:32.951 They came with therapy first and then

NOTE Confidence: 0.85726543625

00:29:32.951 --> 00:29:34.758 they got surgery and then basically they

NOTE Confidence: 0.85726543625

00:29:34.758 --> 00:29:36.799 looked at something on a false negative rate.

NOTE Confidence: 0.85726543625

00:29:36.800 --> 00:29:39.590 So basically.

NOTE Confidence: 0.766465408

00:29:39.590 --> 00:29:41.309 Most negative rate is if you had a central

NOTE Confidence: 0.766465408

00:29:41.309 --> 00:29:42.739 lymph node biopsy that was negative,

NOTE Confidence: 0.766465408

00:29:42.740 --> 00:29:44.315 but then when you look further there

NOTE Confidence: 0.766465408

00:29:44.315 --> 00:29:45.720 is actually more cancer in there.

NOTE Confidence: 0.766465408

00:29:45.720 --> 00:29:47.328 So our goal false negative rate.

NOTE Confidence: 0.766465408

00:29:47.330 --> 00:29:48.638 For this to work was it

NOTE Confidence: 0.766465408

00:29:48.638 --> 00:29:50.090 had to be less than 10%.

NOTE Confidence: 0.766465408

00:29:50.090 --> 00:29:53.240 So 10% was like the key number and we

NOTE Confidence: 0.766465408

00:29:53.240 --> 00:29:56.480 were able to get that achieve that number

NOTE Confidence: 0.766465408

00:29:56.480 --> 00:29:59.553 by having a more stringent central

NOTE Confidence: 0.766465408

00:29:59.553 --> 00:30:02.523 biopsy criteria using dual tracer.

NOTE Confidence: 0.766465408

00:30:02.530 --> 00:30:03.986 Meaning you had to use two different

NOTE Confidence: 0.766465408

00:30:03.986 --> 00:30:05.190 types of lymph node tracing,

NOTE Confidence: 0.766465408

00:30:05.190 --> 00:30:07.265 blue dye and technetium or

NOTE Confidence: 0.766465408

00:30:07.265 --> 00:30:08.510 the radioactive material.

NOTE Confidence: 0.766465408

00:30:08.510 --> 00:30:09.986 We had to remove at least.

NOTE Confidence: 0.766465408

00:30:09.990 --> 00:30:11.034 Three left nodes,

NOTE Confidence: 0.766465408

00:30:11.034 --> 00:30:13.470 and optimally we had to remove the

NOTE Confidence: 0.766465408

00:30:13.542 --> 00:30:16.286 initially diagnosed left node or the AKA.

NOTE Confidence: 0.766465408

00:30:16.290 --> 00:30:19.610 The clipped lived because we place the clip.

NOTE Confidence: 0.766465408

00:30:19.610 --> 00:30:22.445 In the lymph node that has the

NOTE Confidence: 0.766465408

00:30:22.445 --> 00:30:24.310 known biopsy proven cancer.

NOTE Confidence: 0.766465408

00:30:24.310 --> 00:30:26.434 So a series of studies demonstrated

NOTE Confidence: 0.766465408

00:30:26.434 --> 00:30:29.200 that we got this good false negative

NOTE Confidence: 0.766465408

00:30:29.200 --> 00:30:31.330 rate or high sensitivity rate.

NOTE Confidence: 0.766465408

00:30:31.330 --> 00:30:33.554 Basically is another way to think about it.

NOTE Confidence: 0.766465408

00:30:33.560 --> 00:30:35.819 If you use the dual agent or got three

NOTE Confidence: 0.766465408

00:30:35.819 --> 00:30:37.950 more than three central lymph nodes,

NOTE Confidence: 0.766465408

00:30:37.950 --> 00:30:40.646 the number was always around 10 or less,

NOTE Confidence: 0.766465408

00:30:40.650 --> 00:30:42.888 10% or less and then further

NOTE Confidence: 0.766465408

00:30:42.888 --> 00:30:44.380 follow-up studies demonstrated that

NOTE Confidence: 0.766465408

00:30:44.444 --> 00:30:46.364 if you got the clip note as well,

NOTE Confidence: 0.766465408

00:30:46.370 --> 00:30:48.392 you could drop that false negative

NOTE Confidence: 0.766465408

00:30:48.392 --> 00:30:55.930 rate to 6.8%. And even down to 1.4%.

NOTE Confidence: 0.766465408

00:30:55.930 --> 00:30:58.946 So the take home point for this was.

NOTE Confidence: 0.766465408

00:30:58.950 --> 00:31:00.830 Pushing the envelope some more.

NOTE Confidence: 0.766465408

00:31:00.830 --> 00:31:03.170 Now we have bulky disease or

NOTE Confidence: 0.766465408

00:31:03.170 --> 00:31:05.360 known disease in your axilla.

NOTE Confidence: 0.766465408

00:31:05.360 --> 00:31:08.338 We could create your treatment so

NOTE Confidence: 0.766465408

00:31:08.338 --> 00:31:10.424 that you know you have the lymph

NOTE Confidence: 0.766465408

00:31:10.424 --> 00:31:12.517 nodes shrink up and then we could

NOTE Confidence: 0.766465408

00:31:12.517 --> 00:31:14.072 minimize your surgery and we could

NOTE Confidence: 0.766465408

00:31:14.072 --> 00:31:18.240 do it in a safe and accurate manner.

NOTE Confidence: 0.766465408

00:31:18.240 --> 00:31:20.346 It's a much more stringent criteria,

NOTE Confidence: 0.766465408

00:31:20.350 --> 00:31:22.240 but the fact that we're able to

NOTE Confidence: 0.766465408

00:31:22.240 --> 00:31:24.020 identify this and get to this

NOTE Confidence: 0.766465408

00:31:24.020 --> 00:31:25.535 point is like really remarkable.

NOTE Confidence: 0.896939166666667

00:31:27.940 --> 00:31:30.088 So finally that the third milestone,

NOTE Confidence: 0.896939166666667

00:31:30.090 --> 00:31:31.590 which is ongoing,

NOTE Confidence: 0.896939166666667

00:31:31.590 --> 00:31:35.980 is looking at even more levels of disease.

NOTE Confidence: 0.896939166666667

00:31:35.980 --> 00:31:38.992 People that have some response

NOTE Confidence: 0.896939166666667

00:31:38.992 --> 00:31:40.300 to the chemotherapy.

NOTE Confidence: 0.896939166666667

00:31:40.300 --> 00:31:41.640 They get their central dental

NOTE Confidence: 0.896939166666667

00:31:41.640 --> 00:31:43.321 biopsy and there still looks like

NOTE Confidence: 0.896939166666667

00:31:43.321 --> 00:31:44.469 there's some cancer there.

NOTE Confidence: 0.896939166666667

00:31:44.470 --> 00:31:46.936 Do they really need axillary surgery

NOTE Confidence: 0.896939166666667

00:31:46.936 --> 00:31:49.390 or could we replace that with?

NOTE Confidence: 0.896939166666667

00:31:49.390 --> 00:31:53.074 Radiation, so those are ongoing studies

NOTE Confidence: 0.896939166666667

00:31:53.074 --> 00:31:57.150 by the alliance group as well as the.

NOTE Confidence: 0.896939166666667

00:31:57.150 --> 00:32:00.865 Nsap group so I just wanted to

NOTE Confidence: 0.896939166666667

00:32:00.865 --> 00:32:02.378 kind of press upon everyone that

NOTE Confidence: 0.896939166666667

00:32:02.378 --> 00:32:03.718 significant advances has been

NOTE Confidence: 0.896939166666667

00:32:03.718 --> 00:32:05.058 made regarding our understanding

NOTE Confidence: 0.896939166666667

00:32:05.058 --> 00:32:06.744 of the treatment of breast cancer

NOTE Confidence: 0.896939166666667

00:32:06.744 --> 00:32:09.695 that spread to the left nodes.

NOTE Confidence: 0.896939166666667

00:32:09.695 --> 00:32:11.630 Uhm? Actually,

NOTE Confidence: 0.896939166666667

00:32:11.630 --> 00:32:13.590 there's no dissection which has removed many,

NOTE Confidence: 0.896939166666667

00:32:13.590 --> 00:32:15.840 many lymph nodes and has known

NOTE Confidence: 0.896939166666667

00:32:15.840 --> 00:32:17.340 morbidity and complications has

NOTE Confidence: 0.896939166666667

00:32:17.408 --> 00:32:19.586 slowly been replaced over the years.

NOTE Confidence: 0.896939166666667

00:32:19.590 --> 00:32:22.026 By this much more targeted curated

NOTE Confidence: 0.896939166666667

00:32:22.026 --> 00:32:23.650 Sentinel lymph node biopsy.

NOTE Confidence: 0.896939166666667

00:32:23.650 --> 00:32:26.149 First for staging purposes in the 60s,

NOTE Confidence: 0.896939166666667

00:32:26.150 --> 00:32:27.077 Seventies, 80s nineties,

NOTE Confidence: 0.896939166666667

00:32:27.077 --> 00:32:28.931 and then more and more for

NOTE Confidence: 0.896939166666667

00:32:28.931 --> 00:32:29.730 therapeutic purposes.

NOTE Confidence: 0.896939166666667

00:32:29.730 --> 00:32:32.047 For tumors that were left node bearing

NOTE Confidence: 0.896939166666667

00:32:32.047 --> 00:32:34.230 lymph nodes that are known to harbor

NOTE Confidence: 0.896939166666667

00:32:34.230 --> 00:32:36.473 or cancer cells in them and we're

NOTE Confidence: 0.896939166666667

00:32:36.473 --> 00:32:38.397 continuously pushing the envelope.

NOTE Confidence: 0.902932059230769

00:32:40.790 --> 00:32:42.848 So I feel like with the addition

NOTE Confidence: 0.902932059230769

00:32:42.848 --> 00:32:44.929 of all of this great data,

NOTE Confidence: 0.902932059230769

00:32:44.930 --> 00:32:46.362 we could make personalized

NOTE Confidence: 0.902932059230769

00:32:46.362 --> 00:32:47.794 care and decision making.

NOTE Confidence: 0.902932059230769

00:32:47.800 --> 00:32:50.926 This data helps us avoid axillary surgery

NOTE Confidence: 0.902932059230769

00:32:50.926 --> 00:32:53.922 in patients who may have risk factors

NOTE Confidence: 0.902932059230769

00:32:53.922 --> 00:32:56.241 that predispose them to infection,

NOTE Confidence: 0.902932059230769

00:32:56.241 --> 00:32:57.744 lymphoedema, and etc.

NOTE Confidence: 0.902932059230769

00:32:57.744 --> 00:33:02.258 And this is done as a kind of a collaborative

NOTE Confidence: 0.902932059230769

00:33:02.258 --> 00:33:04.143 conversation between the patient and

NOTE Confidence: 0.902932059230769

00:33:04.143 --> 00:33:06.695 their their doctors in a in a team setting.

NOTE Confidence: 0.902932059230769

00:33:06.700 --> 00:33:09.550 So we we I am.

NOTE Confidence: 0.919997267272727

00:33:11.560 --> 00:33:13.856 I'd like to come thank you for

NOTE Confidence: 0.919997267272727

00:33:13.856 --> 00:33:15.636 listening and it's great to

NOTE Confidence: 0.919997267272727

00:33:15.636 --> 00:33:17.808 be part of this breast cancer

NOTE Confidence: 0.919997267272727

00:33:17.808 --> 00:33:19.740 Awareness Month outreach program,

NOTE Confidence: 0.919997267272727

00:33:19.740 --> 00:33:23.324 and I hope that all the wonderful

NOTE Confidence: 0.919997267272727

00:33:23.324 --> 00:33:25.338 advances and understanding that

NOTE Confidence: 0.919997267272727

00:33:25.338 --> 00:33:27.678 we have made in this field,

NOTE Confidence: 0.919997267272727

00:33:27.680 --> 00:33:28.868 particularly in surgery,

NOTE Confidence: 0.919997267272727

00:33:28.868 --> 00:33:30.452 where we're constantly learning

NOTE Confidence: 0.919997267272727

00:33:30.452 --> 00:33:32.535 more about the biology of the

NOTE Confidence: 0.919997267272727

00:33:32.535 --> 00:33:34.290 disease and being able to mold

NOTE Confidence: 0.919997267272727

00:33:34.290 --> 00:33:36.450 the type of surgery that's needed

NOTE Confidence: 0.919997267272727

00:33:36.450 --> 00:33:39.098 and still feel good about it and

NOTE Confidence: 0.919997267272727

00:33:39.098 --> 00:33:40.968 know that we're rendering the

NOTE Confidence: 0.919997267272727

00:33:40.968 --> 00:33:42.770 patient with a good outcome.

NOTE Confidence: 0.919997267272727

00:33:42.770 --> 00:33:44.458 Is ongoing, thank you.

NOTE Confidence: 0.935595106

00:33:45.280 --> 00:33:46.920 Great, thank you so much.

NOTE Confidence: 0.935595106

00:33:46.920 --> 00:33:49.828 Doctor Park and I think your talk

NOTE Confidence: 0.935595106

00:33:49.828 --> 00:33:52.398 really highlights just all the

NOTE Confidence: 0.935595106

00:33:52.398 --> 00:33:54.660 advances in personalized medicine

NOTE Confidence: 0.935595106

00:33:54.660 --> 00:33:57.006 that we've been able to achieve

NOTE Confidence: 0.935595106

00:33:57.006 --> 00:33:58.570 through dedicated clinical trials

NOTE Confidence: 0.935595106

00:33:58.632 --> 00:34:00.690 which would not have been possible

NOTE Confidence: 0.935595106

00:34:00.690 --> 00:34:02.989 with all the thousands of individuals

NOTE Confidence: 0.935595106

00:34:02.989 --> 00:34:04.964 who have participated with that.

NOTE Confidence: 0.935595106

00:34:04.964 --> 00:34:07.323 We will move on to our third

NOTE Confidence: 0.935595106

00:34:07.323 --> 00:34:09.278 talk with Doctor Pomahac.

NOTE Confidence: 0.935595106

00:34:09.280 --> 00:34:09.770 Thank you.

NOTE Confidence: 0.99029607

00:34:12.790 --> 00:34:14.665 Thank you very much and I

NOTE Confidence: 0.99029607

00:34:14.665 --> 00:34:16.290 couldn't stop thinking about all

NOTE Confidence: 0.896398489130435

00:34:16.362 --> 00:34:18.595 the aspects of Breast Cancer Care and

NOTE Confidence: 0.896398489130435

00:34:18.595 --> 00:34:20.998 how it starts with medical oncology.

NOTE Confidence: 0.896398489130435

00:34:21.000 --> 00:34:22.576 Goes through radiation oncology,

NOTE Confidence: 0.896398489130435

00:34:22.576 --> 00:34:24.152 surgical oncology and then

NOTE Confidence: 0.896398489130435

00:34:24.152 --> 00:34:25.420 finally plastic surgery.

NOTE Confidence: 0.896398489130435

00:34:25.420 --> 00:34:27.814 But also the communication of the team.

NOTE Confidence: 0.896398489130435

00:34:27.820 --> 00:34:29.710 How much it may impact the

NOTE Confidence: 0.896398489130435

00:34:29.710 --> 00:34:30.970 choice of reconstruction and

NOTE Confidence: 0.896398489130435

00:34:31.028 --> 00:34:32.604 the timing of reconstruction

NOTE Confidence: 0.896398489130435

00:34:32.604 --> 00:34:34.574 because the type of chemotherapy,

NOTE Confidence: 0.896398489130435

00:34:34.580 --> 00:34:37.178 the timing of chemotherapy as well

NOTE Confidence: 0.896398489130435

00:34:37.178 --> 00:34:39.672 as the presence of previous radiation

NOTE Confidence: 0.896398489130435

00:34:39.672 --> 00:34:41.577 or plan for future radiation.

NOTE Confidence: 0.896398489130435

00:34:41.580 --> 00:34:43.064 Those are all incredibly.

NOTE Confidence: 0.896398489130435

00:34:43.064 --> 00:34:44.548 Important factors and beyond

NOTE Confidence: 0.896398489130435

00:34:44.548 --> 00:34:46.570 the scope of this presentation,

NOTE Confidence: 0.896398489130435

59

00:34:46.570 --> 00:34:49.276 but certainly document how we all

NOTE Confidence: 0.896398489130435

00:34:49.276 --> 00:34:51.530 communicate together as one team.

NOTE Confidence: 0.896398489130435

00:34:51.530 --> 00:34:55.440 I wanted to start with.

NOTE Confidence: 0.896398489130435

00:34:55.440 --> 00:34:59.078 With sort of the basics back in 1995,

NOTE Confidence: 0.896398489130435

00:34:59.078 --> 00:35:01.142 there were only 8% women receiving

NOTE Confidence: 0.896398489130435

00:35:01.142 --> 00:35:03.222 breast reconstruction and there was

NOTE Confidence: 0.896398489130435

00:35:03.222 --> 00:35:05.520 because largely this was viewed as

NOTE Confidence: 0.896398489130435

00:35:05.520 --> 00:35:07.823 esthetic surgery and out of pocket payment.

NOTE Confidence: 0.896398489130435

00:35:07.830 --> 00:35:08.860 In 1998,

NOTE Confidence: 0.896398489130435

00:35:08.860 --> 00:35:11.950 the Women's Health and Cancer Rights

NOTE Confidence: 0.896398489130435

00:35:11.950 --> 00:35:14.270 Act actually allowed women to be

NOTE Confidence: 0.896398489130435

00:35:14.270 --> 00:35:16.070 eligible under in medical insurance

NOTE Confidence: 0.896398489130435

00:35:16.135 --> 00:35:17.939 to obtain breast reconstruction,

NOTE Confidence: 0.896398489130435

00:35:17.940 --> 00:35:19.996 and from then we have had a steady

NOTE Confidence: 0.896398489130435

00:35:19.996 --> 00:35:21.297 rise in breast reconstruction

NOTE Confidence: 0.896398489130435

00:35:21.297 --> 00:35:23.463 numbers up to the COVID year

NOTE Confidence: 0.896398489130435

00:35:23.463 --> 00:35:25.600 where it plateaued and the pig.

NOTE Confidence: 0.896398489130435

00:35:25.600 --> 00:35:28.264 Was actually the year before or a couple

NOTE Confidence: 0.896398489130435

00:35:28.264 --> 00:35:30.715 years before around 43% of women,

NOTE Confidence: 0.896398489130435

00:35:30.715 --> 00:35:32.940 so women with invasive cancer.

NOTE Confidence: 0.896398489130435

00:35:32.940 --> 00:35:35.558 Almost half of them at the present

NOTE Confidence: 0.896398489130435

00:35:35.558 --> 00:35:37.770 time received breast reconstruction.

NOTE Confidence: 0.896398489130435

00:35:37.770 --> 00:35:39.366 Now the trends have also evolved

NOTE Confidence: 0.896398489130435

00:35:39.366 --> 00:35:40.164 over the time,

NOTE Confidence: 0.896398489130435

00:35:40.170 --> 00:35:43.553 and if you look at the early 1998,

NOTE Confidence: 0.896398489130435

00:35:43.553 --> 00:35:46.367 which is when the Women's Care

NOTE Confidence: 0.896398489130435

00:35:46.367 --> 00:35:48.458 Act was approved,

NOTE Confidence: 0.896398489130435

00:35:48.460 --> 00:35:51.491 we had about the same amount of

NOTE Confidence: 0.896398489130435

00:35:51.491 --> 00:35:53.362 autologous meaning using utilizing

NOTE Confidence: 0.896398489130435

00:35:53.362 --> 00:35:55.867 patient's own tissue type of

NOTE Confidence: 0.896398489130435

00:35:55.867 --> 00:35:57.770 reconstructions and the same amount

NOTE Confidence: 0.896398489130435

00:35:57.770 --> 00:35:59.170 of implant based reconstructions.

NOTE Confidence: 0.896398489130435

00:35:59.170 --> 00:36:01.277 But over the years this trend has

NOTE Confidence: 0.896398489130435

00:36:01.277 --> 00:36:03.117 diverged and with the growing

NOTE Confidence: 0.896398489130435

00:36:03.117 --> 00:36:04.428 number of reconstruction,

NOTE Confidence: 0.896398489130435

00:36:04.430 --> 00:36:07.220 overall we have seen steady increase

NOTE Confidence: 0.896398489130435

00:36:07.220 --> 00:36:09.080 in implant based reconstruction.

NOTE Confidence: 0.846188244444444

00:36:11.210 --> 00:36:13.850 Now, why is it so well

NOTE Confidence: 0.846188244444444

00:36:13.850 --> 00:36:15.170 from patients perspective,

NOTE Confidence: 0.846188244444444

00:36:15.170 --> 00:36:18.210 a implant based reconstruction means

NOTE Confidence: 0.846188244444444

00:36:18.210 --> 00:36:21.250 shorter operation and faster recovery.

NOTE Confidence: 0.846188244444444

00:36:21.250 --> 00:36:22.830 Everything happens on the chest,

NOTE Confidence: 0.846188244444444

00:36:22.830 --> 00:36:24.846 whether it's one or both breasts.

NOTE Confidence: 0.846188244444444

00:36:24.850 --> 00:36:26.608 There is no additional donor site,

NOTE Confidence: 0.846188244444444

00:36:26.610 --> 00:36:29.418 and the healing is generally limited

NOTE Confidence: 0.846188244444444

00:36:29.418 --> 00:36:31.380 to probably two to four weeks

NOTE Confidence: 0.846188244444444

00:36:31.380 --> 00:36:33.410 rather than four to six visitor.

NOTE Confidence: 0.846188244444444

00:36:33.410 --> 00:36:37.076 Even eight weeks with the autologous

NOTE Confidence: 0.846188244444444

00:36:37.076 --> 00:36:38.125 reconstruction techniques.

NOTE Confidence: 0.846188244444444

00:36:38.125 --> 00:36:40.735 We have also seen increase in.

NOTE Confidence: 0.846188244444444

00:36:40.740 --> 00:36:42.960 The number of bilateral

NOTE Confidence: 0.846188244444444

00:36:42.960 --> 00:36:44.625 mastectomy both sides.

NOTE Confidence: 0.846188244444444

00:36:44.630 --> 00:36:46.066 Both breasts are removed,

NOTE Confidence: 0.846188244444444

00:36:46.066 --> 00:36:47.861 and that's because of the

NOTE Confidence: 0.846188244444444

00:36:47.861 --> 00:36:49.699 identification of some of the genes

NOTE Confidence: 0.846188244444444

00:36:49.699 --> 00:36:51.114 that predispose women to breast

NOTE Confidence: 0.846188244444444

00:36:51.174 --> 00:36:53.166 cancer and and mastectomies that we

NOTE Confidence: 0.846188244444444

00:36:53.166 --> 00:36:54.952 call prophylactic or also increased

NOTE Confidence: 0.846188244444444

00:36:54.952 --> 00:36:57.212 anxiety among patients to leave

NOTE Confidence: 0.846188244444444

00:36:57.212 --> 00:36:59.836 healthy breast in place when they

NOTE Confidence: 0.846188244444444

00:36:59.836 --> 00:37:02.074 suffered from cancer on one side.

NOTE Confidence: 0.846188244444444

00:37:02.080 --> 00:37:04.300 And although those are not generally

NOTE Confidence: 0.846188244444444

00:37:04.300 --> 00:37:06.128 recommended as medically appropriate, there

NOTE Confidence: 0.846188244444444

00:37:06.128 --> 00:37:08.912 has been increase of those cases as well.

NOTE Confidence: 0.846188244444444

00:37:08.920 --> 00:37:10.831 Additionally, FDA has.

NOTE Confidence: 0.846188244444444

00:37:10.831 --> 00:37:14.653 Has triggers her their stance on

NOTE Confidence: 0.846188244444444

00:37:14.653 --> 00:37:17.318 moratorium on silicone implants

NOTE Confidence: 0.846188244444444

00:37:17.320 --> 00:37:21.432 in 2006 as they were found to be

NOTE Confidence: 0.846188244444444

00:37:21.432 --> 00:37:23.378 relatively safe and certainly

NOTE Confidence: 0.846188244444444

00:37:23.378 --> 00:37:25.673 not connected to the connective

NOTE Confidence: 0.846188244444444

00:37:25.673 --> 00:37:28.049 tissue disorders in large numbers

NOTE Confidence: 0.846188244444444

00:37:28.049 --> 00:37:30.369 and studies that were performed.

NOTE Confidence: 0.846188244444444

00:37:30.370 --> 00:37:32.325 Another factor is what's called

NOTE Confidence: 0.846188244444444

00:37:32.325 --> 00:37:33.528 ****** sparing mastectomy,

NOTE Confidence: 0.846188244444444

00:37:33.528 --> 00:37:35.952 which is a technique of removing

NOTE Confidence: 0.846188244444444

00:37:35.952 --> 00:37:38.469 the breast gland and breast tissue

NOTE Confidence: 0.846188244444444

00:37:38.469 --> 00:37:40.444 without removing the ****** which

NOTE Confidence: 0.846188244444444

00:37:40.444 --> 00:37:42.114 traditionally is viewed as as

NOTE Confidence: 0.846188244444444

00:37:42.114 --> 00:37:44.817 a part of the breast gland and

NOTE Confidence: 0.846188244444444

00:37:44.817 --> 00:37:47.409 traditionally was part of the operation.

NOTE Confidence: 0.846188244444444

00:37:47.410 --> 00:37:49.580 And then finally the surgical

NOTE Confidence: 0.846188244444444

00:37:49.580 --> 00:37:51.750 advance of structural fat grafting,

NOTE Confidence: 0.846188244444444

00:37:51.750 --> 00:37:53.460 which is essentially a liposuction

NOTE Confidence: 0.846188244444444

00:37:53.460 --> 00:37:55.913 of area where the patients have a

NOTE Confidence: 0.846188244444444

00:37:55.913 --> 00:37:57.965 little bit of access and countering

NOTE Confidence: 0.846188244444444

00:37:57.965 --> 00:37:59.733 the reconstruction with an implant

NOTE Confidence: 0.846188244444444

00:37:59.733 --> 00:38:01.443 has helped immensely to improve

NOTE Confidence: 0.846188244444444

00:38:01.443 --> 00:38:02.590 the aesthetic outcomes.

NOTE Confidence: 0.846188244444444

00:38:02.590 --> 00:38:04.430 On the other hand,

NOTE Confidence: 0.846188244444444

00:38:04.430 --> 00:38:06.518 the autologous breast reconstruction

NOTE Confidence: 0.846188244444444

00:38:06.518 --> 00:38:09.128 techniques using the patient's own

NOTE Confidence: 0.846188244444444

00:38:09.128 --> 00:38:11.848 body largely evolved into perforate,

NOTE Confidence: 0.846188244444444

00:38:11.850 --> 00:38:12.414 are based techniques,

NOTE Confidence: 0.846188244444444

00:38:12.414 --> 00:38:14.090 and I'll talk about it a little bit more,

NOTE Confidence: 0.846188244444444

00:38:14.090 --> 00:38:16.022 but it is essentially a technique

NOTE Confidence: 0.846188244444444

00:38:16.022 --> 00:38:17.770 where we try to spare.

NOTE Confidence: 0.846188244444444

00:38:17.770 --> 00:38:20.330 Muscles or deeper structures

NOTE Confidence: 0.846188244444444

00:38:20.330 --> 00:38:23.530 and just find vessels that.

NOTE Confidence: 0.846188244444444

00:38:23.530 --> 00:38:25.882 By skin and fat there will be ultimately

NOTE Confidence: 0.846188244444444

00:38:25.882 --> 00:38:28.556 used to replace the missing breast mound.

NOTE Confidence: 0.846188244444444

00:38:28.560 --> 00:38:30.660 These operations are quite sophisticated

NOTE Confidence: 0.846188244444444

00:38:30.660 --> 00:38:33.150 but tedious and take long time,

NOTE Confidence: 0.846188244444444

00:38:33.150 --> 00:38:35.397 and frankly there is really not enough

NOTE Confidence: 0.846188244444444

00:38:35.397 --> 00:38:37.509 surgeons in the country that would

NOTE Confidence: 0.846188244444444

00:38:37.509 --> 00:38:39.687 be able to perform these operations.

NOTE Confidence: 0.846188244444444

00:38:39.690 --> 00:38:41.645 That sometimes bilateral reconstruction can

NOTE Confidence: 0.846188244444444

00:38:41.645 --> 00:38:44.848 take a whole day in the operating room,

NOTE Confidence: 0.846188244444444

00:38:44.850 --> 00:38:47.671 and so the Community has also driven

NOTE Confidence: 0.846188244444444

00:38:47.671 --> 00:38:51.447 the need or the the rise in implant

NOTE Confidence: 0.846188244444444

00:38:51.447 --> 00:38:53.427 based reconstruction as well.

NOTE Confidence: 0.846188244444444

00:38:53.430 --> 00:38:55.368 Now when I'm talking about implant

NOTE Confidence: 0.846188244444444

00:38:55.368 --> 00:38:56.014 based reconstruction,

NOTE Confidence: 0.846188244444444

00:38:56.020 --> 00:38:58.064 would I what I'm talking about is

NOTE Confidence: 0.846188244444444

00:38:58.064 --> 00:38:59.506 really these two circumstances

NOTE Confidence: 0.846188244444444

00:38:59.506 --> 00:39:01.000 release two options?

NOTE Confidence: 0.846188244444444

00:39:01.000 --> 00:39:03.112 In some instances we place at

NOTE Confidence: 0.846188244444444

00:39:03.112 --> 00:39:05.450 the time of mastectomy and tissue

NOTE Confidence: 0.846188244444444

00:39:05.450 --> 00:39:07.620 expander and then later on come back

NOTE Confidence: 0.846188244444444

00:39:07.620 --> 00:39:09.519 to exchange the expander for implant

NOTE Confidence: 0.846188244444444

00:39:09.519 --> 00:39:11.565 and that's done for numerous reasons.

NOTE Confidence: 0.846188244444444

00:39:11.570 --> 00:39:13.400 Sometimes it's concerned about the

NOTE Confidence: 0.846188244444444

00:39:13.400 --> 00:39:15.589 viability of the skin because the

NOTE Confidence: 0.846188244444444

00:39:15.589 --> 00:39:17.074 breast cancer surgeon has really

NOTE Confidence: 0.846188244444444

00:39:17.074 --> 00:39:19.398 the hard job to remove the breast

NOTE Confidence: 0.846188244444444

00:39:19.398 --> 00:39:21.183 gland without injuring the skin,

NOTE Confidence: 0.846188244444444

00:39:21.190 --> 00:39:23.578 but the skin can be traumatized.

NOTE Confidence: 0.846188244444444

00:39:23.580 --> 00:39:25.324 Putting additional full size

NOTE Confidence: 0.846188244444444

00:39:25.324 --> 00:39:27.504 implant may cause additional trauma,

NOTE Confidence: 0.846188244444444

00:39:27.510 --> 00:39:29.610 so placing expander allowing the skin

NOTE Confidence: 0.846188244444444

00:39:29.610 --> 00:39:31.761 to heal and then gradually expand

NOTE Confidence: 0.846188244444444

00:39:31.761 --> 00:39:34.505 the skin is a safer way to perceive.

NOTE Confidence: 0.91036069

00:39:34.510 --> 00:39:36.304 Sometimes the patients want to be

NOTE Confidence: 0.91036069

00:39:36.304 --> 00:39:38.270 larger than what they started with,

NOTE Confidence: 0.91036069

00:39:38.270 --> 00:39:40.013 and that's another reason to put an

NOTE Confidence: 0.91036069

00:39:40.013 --> 00:39:42.137 expander at the time of the reconstruction,

NOTE Confidence: 0.91036069

00:39:42.140 --> 00:39:44.732 but ultimately the expander is a

NOTE Confidence: 0.91036069

00:39:44.732 --> 00:39:47.006 temporary prosthetic prosthesis that's

NOTE Confidence: 0.91036069

00:39:47.006 --> 00:39:50.066 ultimately exchanged for an implant.

NOTE Confidence: 0.91036069

00:39:50.070 --> 00:39:52.318 Lately, though, we have been using more and

NOTE Confidence: 0.91036069

00:39:52.318 --> 00:39:54.099 more immediate implant reconstructions.

NOTE Confidence: 0.91036069

00:39:54.100 --> 00:39:57.178 Bad for proper patient can eliminate

NOTE Confidence: 0.91036069

00:39:57.178 --> 00:40:00.602 one of the operations and can lead

NOTE Confidence: 0.91036069

00:40:00.602 --> 00:40:03.577 to quite nice results in one stage.

NOTE Confidence: 0.91036069

00:40:03.580 --> 00:40:05.435 Now there are different nuances

NOTE Confidence: 0.91036069

00:40:05.435 --> 00:40:07.290 where this implant ultimately can

NOTE Confidence: 0.91036069

00:40:07.349 --> 00:40:09.141 be placed on the upper row you

NOTE Confidence: 0.91036069

00:40:09.141 --> 00:40:11.059 can see what's called subpectoral,

NOTE Confidence: 0.91036069

00:40:11.060 --> 00:40:13.292 implant based reconstruction and

NOTE Confidence: 0.91036069

00:40:13.292 --> 00:40:16.082 different views of this reconstruction.

NOTE Confidence: 0.91036069

00:40:16.090 --> 00:40:16.661 Fundamentally,

NOTE Confidence: 0.91036069

00:40:16.661 --> 00:40:19.516 the implant is placed underneath

NOTE Confidence: 0.91036069

00:40:19.516 --> 00:40:22.583 the large chest muscle that covers

NOTE Confidence: 0.91036069

00:40:22.583 --> 00:40:25.194 the implant and prevents some of the

NOTE Confidence: 0.91036069

00:40:25.194 --> 00:40:27.258 problems such as capsular contracture

NOTE Confidence: 0.91036069

00:40:27.258 --> 00:40:29.748 or tight scar around the implant,

NOTE Confidence: 0.91036069

69

00:40:29.750 --> 00:40:32.282 but it also creates natural sloping

NOTE Confidence: 0.91036069

00:40:32.282 --> 00:40:35.170 of the upper pole of the breast.

NOTE Confidence: 0.91036069

00:40:35.170 --> 00:40:36.758 On the other hand,

NOTE Confidence: 0.91036069

00:40:36.758 --> 00:40:37.949 because immediately superficial

NOTE Confidence: 0.91036069

00:40:37.949 --> 00:40:39.820 to this muscle is a skin,

NOTE Confidence: 0.91036069

00:40:39.820 --> 00:40:41.508 patients often develop what's

NOTE Confidence: 0.91036069

00:40:41.508 --> 00:40:42.774 called animation deformity,

NOTE Confidence: 0.91036069

00:40:42.780 --> 00:40:45.364 which is when you engage the chest muscle,

NOTE Confidence: 0.91036069

00:40:45.370 --> 00:40:46.940 the skin suddenly moves and

NOTE Confidence: 0.91036069

00:40:46.940 --> 00:40:48.510 it can look quite abnormal,

NOTE Confidence: 0.91036069

00:40:48.510 --> 00:40:51.154 especially in dresses or

NOTE Confidence: 0.91036069

00:40:51.154 --> 00:40:53.798 or swimming swimming suit.

NOTE Confidence: 0.91036069

00:40:53.800 --> 00:40:55.900 That's one of the reasons why

NOTE Confidence: 0.91036069

00:40:55.900 --> 00:40:57.300 lately we have reverted,

NOTE Confidence: 0.91036069

00:40:57.300 --> 00:40:59.538 they were converted back to what's

NOTE Confidence: 0.91036069

00:40:59.538 --> 00:41:01.030 called prepectoral implant placement,

70

NOTE Confidence: 0.91036069

00:41:01.030 --> 00:41:02.990 which is placement of an implant in

NOTE Confidence: 0.91036069

00:41:02.990 --> 00:41:05.290 front of the pectoralis major muscle.

NOTE Confidence: 0.91036069

00:41:05.290 --> 00:41:06.517 In this case,

NOTE Confidence: 0.91036069

00:41:06.517 --> 00:41:08.562 the implant has the disadvantage

NOTE Confidence: 0.91036069

00:41:08.562 --> 00:41:10.630 of having less protection,

NOTE Confidence: 0.91036069

00:41:10.630 --> 00:41:12.185 and sometimes the transition to

NOTE Confidence: 0.91036069

00:41:12.185 --> 00:41:14.534 the upper pole of the chest can

NOTE Confidence: 0.91036069

00:41:14.534 --> 00:41:15.626 be slightly abnormal,

NOTE Confidence: 0.91036069

00:41:15.630 --> 00:41:17.904 but that's where the structural fat

NOTE Confidence: 0.91036069

00:41:17.904 --> 00:41:20.471 grafting or injection of fat at later

NOTE Confidence: 0.91036069

00:41:20.471 --> 00:41:22.439 date can actually make a difference

NOTE Confidence: 0.91036069

00:41:22.439 --> 00:41:24.419 and considerable improvement.

NOTE Confidence: 0.91036069

00:41:24.420 --> 00:41:26.706 So let me show you some of the examples.

NOTE Confidence: 0.91036069

00:41:26.710 --> 00:41:29.566 This is a patient before and after

NOTE Confidence: 0.91036069

00:41:29.566 --> 00:41:30.790 bilateral implant reconstruction.

NOTE Confidence: 0.91036069

00:41:30.790 --> 00:41:32.548 She wanted to be considerably larger,

NOTE Confidence: 0.91036069

00:41:32.550 --> 00:41:34.485 so this was actually interim

NOTE Confidence: 0.91036069

00:41:34.485 --> 00:41:36.420 expander placement and then exchange

NOTE Confidence: 0.91036069

00:41:36.484 --> 00:41:38.374 of implant whenever there is a

NOTE Confidence: 0.91036069

00:41:38.374 --> 00:41:39.416 ****** sparing mastectomy,

NOTE Confidence: 0.91036069

00:41:39.416 --> 00:41:42.010 meaning the native ******* can be preserved,

NOTE Confidence: 0.91036069

00:41:42.010 --> 00:41:43.910 and even though the breast

NOTE Confidence: 0.91036069

00:41:43.910 --> 00:41:45.430 is largely insensate.

NOTE Confidence: 0.91036069

00:41:45.430 --> 00:41:47.404 As the nerves are removed along

NOTE Confidence: 0.91036069

00:41:47.404 --> 00:41:49.613 with the breast gland the the

NOTE Confidence: 0.91036069

00:41:49.613 --> 00:41:51.269 result looks remarkably natural.

NOTE Confidence: 0.91036069

00:41:51.270 --> 00:41:53.730 Another example of patient who had

NOTE Confidence: 0.91036069

00:41:53.730 --> 00:41:55.370 the single stage reconstruction

NOTE Confidence: 0.91036069

00:41:55.439 --> 00:41:57.623 implants placed at the time of

NOTE Confidence: 0.91036069

00:41:57.623 --> 00:42:00.638 mastectomy with nice aesthetic result.

NOTE Confidence: 0.91036069

00:42:00.640 --> 00:42:03.202 Patient who had who had tissue

NOTE Confidence: 0.91036069

00:42:03.202 --> 00:42:05.379 expanders first and then implant

NOTE Confidence: 0.91036069

00:42:05.379 --> 00:42:07.707 as she wanted to be larger.

NOTE Confidence: 0.91036069

00:42:07.710 --> 00:42:09.681 One of the things that you can see here

NOTE Confidence: 0.91036069

00:42:09.681 --> 00:42:11.885 is a little bit of rippling of the skin.

NOTE Confidence: 0.91036069

00:42:11.890 --> 00:42:14.128 So sometimes the implant in the

NOTE Confidence: 0.91036069

00:42:14.128 --> 00:42:16.508 prepectoral or in front of the

NOTE Confidence: 0.91036069

00:42:16.508 --> 00:42:18.543 muscle plane causes rippling or

NOTE Confidence: 0.91036069

00:42:18.543 --> 00:42:20.449 or visibility through the skin.

NOTE Confidence: 0.91036069

00:42:20.450 --> 00:42:23.336 A problem that's really very difficult

NOTE Confidence: 0.91036069

00:42:23.336 --> 00:42:27.548 to correct and can be really not correctable.

NOTE Confidence: 0.91036069

00:42:27.550 --> 00:42:29.450 Another example is patients that

NOTE Confidence: 0.91036069

00:42:29.450 --> 00:42:31.350 undergo only what's called skin,

NOTE Confidence: 0.91036069

00:42:31.350 --> 00:42:32.200 sparing mastectomy,

NOTE Confidence: 0.91036069

00:42:32.200 --> 00:42:34.750 so the mastectomy skin is spared,

NOTE Confidence: 0.91036069

00:42:34.750 --> 00:42:36.090 but ****** area is not.

NOTE Confidence: 0.91036069

00:42:36.090 --> 00:42:37.970 This invariably results in larger

NOTE Confidence: 0.91036069

00:42:37.970 --> 00:42:40.370 longer scars and then the *******

NOTE Confidence: 0.91036069

00:42:40.370 --> 00:42:42.630 have to be reconstructed later.

NOTE Confidence: 0.91036069

00:42:42.630 --> 00:42:44.786 Ultimately the shape can look quite natural,

NOTE Confidence: 0.91036069

00:42:44.790 --> 00:42:48.503 but it does never quite match the

NOTE Confidence: 0.91036069

00:42:48.503 --> 00:42:50.768 result of ****** sparing mastectomy.

NOTE Confidence: 0.838572509333333

00:42:50.770 --> 00:42:53.003 This is a patient who had skin

NOTE Confidence: 0.838572509333333

00:42:53.003 --> 00:42:54.960 sparing mastectomy and then following

NOTE Confidence: 0.838572509333333

00:42:54.960 --> 00:42:56.807 reconstruction of ****** areola.

NOTE Confidence: 0.838572509333333

00:42:56.807 --> 00:42:59.429 Which can be actually these days

NOTE Confidence: 0.838572509333333

00:42:59.429 --> 00:43:01.400 made fairly natural looking.

NOTE Confidence: 0.838572509333333

00:43:01.400 --> 00:43:03.675 We use 3D tattooing as well as

NOTE Confidence: 0.838572509333333

00:43:03.675 --> 00:43:05.733 reconstruction of the projecting part of

NOTE Confidence: 0.838572509333333

00:43:05.733 --> 00:43:09.470 a ****** to complete the reconstruction.

NOTE Confidence: 0.838572509333333

00:43:09.470 --> 00:43:11.615 In cases of significant ptosis

NOTE Confidence: 0.838572509333333

00:43:11.615 --> 00:43:13.760 or drooping of the breasts,

NOTE Confidence: 0.838572509333333

00:43:13.760 --> 00:43:15.881 the ******* are really not wise to

NOTE Confidence: 0.838572509333333

00:43:15.881 --> 00:43:18.442 save as there would end up in really

NOTE Confidence: 0.838572509333333

00:43:18.442 --> 00:43:20.659 wrong position and in those cases we

NOTE Confidence: 0.838572509333333

00:43:20.659 --> 00:43:22.931 have to create a new unit process in

NOTE Confidence: 0.838572509333333

00:43:22.940 --> 00:43:24.630 proper relation and the mastectomy

NOTE Confidence: 0.838572509333333

00:43:24.630 --> 00:43:27.219 scars end up being low on the breast,

NOTE Confidence: 0.838572509333333

00:43:27.220 --> 00:43:28.920 not across the president from

NOTE Confidence: 0.838572509333333

00:43:28.920 --> 00:43:30.280 the previous previous image.

NOTE Confidence: 0.838572509333333

00:43:30.280 --> 00:43:32.950 So the position of the mastectomy

NOTE Confidence: 0.838572509333333

00:43:32.950 --> 00:43:35.680 scar is really related to the

NOTE Confidence: 0.838572509333333

00:43:35.680 --> 00:43:37.840 position of the areola complex.

NOTE Confidence: 0.838572509333333

00:43:37.840 --> 00:43:40.175 Example of unilateral or one

NOTE Confidence: 0.838572509333333

00:43:40.175 --> 00:43:41.576 sided reconstruction with

NOTE Confidence: 0.838572509333333

00:43:41.576 --> 00:43:43.240 contralateral symmetry procedures.

NOTE Confidence: 0.838572509333333

00:43:43.240 --> 00:43:46.215 So many patients that opt to proceed

NOTE Confidence: 0.838572509333333

00:43:46.215 --> 00:43:48.300 with only reconstruction of the

NOTE Confidence: 0.838572509333333

00:43:48.300 --> 00:43:50.496 breast which is affected by cancer,

NOTE Confidence: 0.838572509333333

00:43:50.500 --> 00:43:52.112 can undergo contralateral lift

NOTE Confidence: 0.838572509333333

00:43:52.112 --> 00:43:54.530 or small reduction to match the

NOTE Confidence: 0.838572509333333

00:43:54.598 --> 00:43:56.548 volume as as much as possible.

NOTE Confidence: 0.711922212

00:43:58.760 --> 00:44:01.775 So one of the scary parts lately in the

NOTE Confidence: 0.711922212

00:44:01.775 --> 00:44:03.820 literature has been anaplastic large

NOTE Confidence: 0.711922212

00:44:03.820 --> 00:44:06.274 cell lymphoma was also called alcl,

NOTE Confidence: 0.711922212

00:44:06.280 --> 00:44:09.418 associated with breast implants early on,

NOTE Confidence: 0.711922212

00:44:09.420 --> 00:44:10.440 the incidence was considered

NOTE Confidence: 0.711922212

00:44:10.440 --> 00:44:11.900 to be one in 500,000,

NOTE Confidence: 0.711922212

00:44:11.900 --> 00:44:14.980 but then later was thought that maybe

NOTE Confidence: 0.711922212

00:44:14.980 --> 00:44:18.149 even as frequent as in one in 1000.

NOTE Confidence: 0.711922212

00:44:18.150 --> 00:44:21.060 Based on careful statistical analysis,

NOTE Confidence: 0.711922212

00:44:21.060 --> 00:44:23.520 the truth is probably somewhere around

NOTE Confidence: 0.711922212

00:44:23.520 --> 00:44:27.497 1 to 30,000 patients and 90 or over 90.

NOTE Confidence: 0.711922212

00:44:27.500 --> 00:44:29.400 Percent of these are associated

NOTE Confidence: 0.711922212

00:44:29.400 --> 00:44:30.540 with textured implants.

NOTE Confidence: 0.711922212

00:44:30.540 --> 00:44:32.152 Textured implants were used

NOTE Confidence: 0.711922212

00:44:32.152 --> 00:44:34.167 because of their anatomic shape

NOTE Confidence: 0.711922212

00:44:34.167 --> 00:44:36.497 and ability to hold the position,

NOTE Confidence: 0.711922212

00:44:36.500 --> 00:44:39.461 but also anatomically shape that we could

NOTE Confidence: 0.711922212

00:44:39.461 --> 00:44:42.440 create and less complications related to

NOTE Confidence: 0.711922212

00:44:42.440 --> 00:44:45.704 a capsular scar formation or contracture.

NOTE Confidence: 0.711922212

00:44:45.710 --> 00:44:48.006 Now in those 10% of cases where

NOTE Confidence: 0.711922212

00:44:48.006 --> 00:44:49.884 patients did not have textured

NOTE Confidence: 0.711922212

00:44:49.884 --> 00:44:52.344 implants at the time of diagnosis,

NOTE Confidence: 0.711922212

00:44:52.350 --> 00:44:54.240 it is unclear whether they may

NOTE Confidence: 0.711922212

00:44:54.240 --> 00:44:55.843 have had textured expander or

NOTE Confidence: 0.711922212

00:44:55.843 --> 00:44:57.547 other texture device in the past.

NOTE Confidence: 0.711922212

00:44:57.550 --> 00:44:59.884 So it appears to be strongly

NOTE Confidence: 0.711922212

00:44:59.884 --> 00:45:01.440 correlated with textured implants

NOTE Confidence: 0.711922212

00:45:01.440 --> 00:45:03.010 and even types of texturing.

NOTE Confidence: 0.711922212

00:45:03.010 --> 00:45:05.426 Certain manufacturers have seen

NOTE Confidence: 0.711922212

00:45:05.426 --> 00:45:08.446 larger incidents of anaplastic large

NOTE Confidence: 0.711922212

00:45:08.446 --> 00:45:11.706 cell lymphoma as compared to others.

NOTE Confidence: 0.711922212

00:45:11.710 --> 00:45:14.212 It is a scary disease that

NOTE Confidence: 0.711922212

00:45:14.212 --> 00:45:15.880 presents often with Blumberg,

NOTE Confidence: 0.711922212

00:45:15.880 --> 00:45:18.045 asymptomatic swelling of the breast

NOTE Confidence: 0.711922212

00:45:18.045 --> 00:45:20.923 and treatment is really removal of an

NOTE Confidence: 0.711922212

00:45:20.923 --> 00:45:22.861 implant and complete removal of this

NOTE Confidence: 0.711922212

00:45:22.861 --> 00:45:25.318 scar or capsule around the implant.

NOTE Confidence: 0.711922212

00:45:25.320 --> 00:45:27.665 In rare cases there is need for

NOTE Confidence: 0.711922212

00:45:27.665 --> 00:45:30.069 systemic therapy and there have been

NOTE Confidence: 0.711922212

00:45:30.069 --> 00:45:32.284 unfortunately cases reported of deaths,

NOTE Confidence: 0.711922212

00:45:32.290 --> 00:45:34.768 but the with transition to smooth

NOTE Confidence: 0.711922212

00:45:34.768 --> 00:45:37.180 implants and smooth tissue expanders.

NOTE Confidence: 0.711922212

00:45:37.180 --> 00:45:39.770 This should really be largely

NOTE Confidence: 0.711922212

00:45:39.770 --> 00:45:43.900 minimized if not. Almost eliminated.

NOTE Confidence: 0.711922212

00:45:43.900 --> 00:45:46.448 Now let's switch gears to tallages or

NOTE Confidence: 0.711922212

00:45:46.448 --> 00:45:48.990 patient's own tissue breast reconstruction.

NOTE Confidence: 0.711922212

00:45:48.990 --> 00:45:50.634 There are studies showing

NOTE Confidence: 0.711922212

00:45:50.634 --> 00:45:52.278 superior long term outcomes,

NOTE Confidence: 0.711922212

00:45:52.280 --> 00:45:54.534 so it's I always tell my patients

NOTE Confidence: 0.711922212

00:45:54.534 --> 00:45:56.230 there's big upfront investment,

NOTE Confidence: 0.711922212

00:45:56.230 --> 00:45:59.767 but the long term there is a better aging,

NOTE Confidence: 0.711922212

00:45:59.770 --> 00:46:01.456 less concerns about the exchange of

NOTE Confidence: 0.711922212

00:46:01.456 --> 00:46:03.309 an implant in case they rupture,

NOTE Confidence: 0.711922212

00:46:03.310 --> 00:46:06.070 and any complications ready to the

NOTE Confidence: 0.711922212

00:46:06.070 --> 00:46:07.910 implants are essentially eliminated,

NOTE Confidence: 0.711922212

00:46:07.910 --> 00:46:09.130 and in studies again,

NOTE Confidence: 0.711922212

00:46:09.130 --> 00:46:11.449 it's been shown that patients are satisfied

NOTE Confidence: 0.711922212

00:46:11.449 --> 00:46:13.579 more than with implants overwhelmed.

00:46:13.580 --> 00:46:15.950 Period of time now the donor

00:46:15.950 --> 00:46:17.970 site that's most commonly used.

00:46:17.970 --> 00:46:20.526 The workhorse is the lower abdomen

00:46:20.526 --> 00:46:22.230 and traditionally in back.

00:46:22.230 --> 00:46:23.349 In the 70s.

00:46:23.349 --> 00:46:25.214 Technique that utilized the detachment

00:46:25.214 --> 00:46:27.573 of the muscle and using an island

00:46:27.573 --> 00:46:30.242 that you see in this ellipse on the

00:46:30.242 --> 00:46:32.366 abdomen of skin and subcutaneous fat

00:46:32.366 --> 00:46:35.130 to build the breast has sacrificed

00:46:35.130 --> 00:46:38.117 one of the straight muscles of

00:46:38.117 --> 00:46:40.077 the abdomen rectus muscles.

00:46:40.080 --> 00:46:42.720 And that caused there is abdominal

00:46:42.720 --> 00:46:44.998 strength problems or even weakness

00:46:44.998 --> 00:46:46.758 or bulges or hernias.

NOTE Confidence: 0.711922212

00:46:46.760 --> 00:46:49.308 This is why this what's called tram

NOTE Confidence: 0.711922212

00:46:49.308 --> 00:46:51.489 flap or transverse rectus abdominis

NOTE Confidence: 0.711922212

00:46:51.489 --> 00:46:54.019 muscular cutaneous flap was largely

NOTE Confidence: 0.711922212

00:46:54.019 --> 00:46:55.950 replaced by perforator flap,

NOTE Confidence: 0.711922212

00:46:55.950 --> 00:46:58.212 where we no longer sacrifice the

NOTE Confidence: 0.711922212

00:46:58.212 --> 00:47:00.628 muscle but rather split the muscle

NOTE Confidence: 0.711922212

00:47:00.628 --> 00:47:02.718 and find individual vessels that

NOTE Confidence: 0.711922212

00:47:02.718 --> 00:47:05.279 feed the overlying skin and fat in

NOTE Confidence: 0.711922212

00:47:05.279 --> 00:47:08.760 order to build the breast that way.

NOTE Confidence: 0.711922212

00:47:08.760 --> 00:47:09.124 Uhm,

NOTE Confidence: 0.711922212

00:47:09.124 --> 00:47:10.580 theoretically there should be

NOTE Confidence: 0.711922212

00:47:10.580 --> 00:47:12.036 intact much left behind,

NOTE Confidence: 0.711922212

00:47:12.040 --> 00:47:14.055 although there's a certain degree

NOTE Confidence: 0.711922212

00:47:14.055 --> 00:47:16.655 of damage that occurs just by

NOTE Confidence: 0.711922212

00:47:16.655 --> 00:47:18.699 dissecting the perforating vessels.

NOTE Confidence: 0.711922212

00:47:18.700 --> 00:47:20.675 Results can be remarkably nice

NOTE Confidence: 0.711922212

00:47:20.675 --> 00:47:22.848 again in ****** sparing mastectomy,

NOTE Confidence: 0.711922212

00:47:22.848 --> 00:47:25.318 but more commonly these are

NOTE Confidence: 0.711922212

00:47:25.318 --> 00:47:26.800 skin sparing mastectomies

NOTE Confidence: 0.864866894705882

00:47:26.871 --> 00:47:29.193 that result in replacement of the

NOTE Confidence: 0.864866894705882

00:47:29.193 --> 00:47:31.385 ****** areola complex with skin coming

NOTE Confidence: 0.864866894705882

00:47:31.385 --> 00:47:33.538 from the abdominal flab and this

NOTE Confidence: 0.864866894705882

00:47:33.538 --> 00:47:35.834 is the score of the donor site and

NOTE Confidence: 0.864866894705882

00:47:35.834 --> 00:47:37.838 islands that come from the abdomen.

NOTE Confidence: 0.864866894705882

00:47:37.840 --> 00:47:40.948 These islands can be later changed or

NOTE Confidence: 0.864866894705882

00:47:40.948 --> 00:47:44.316 reduced or made circular as as needed

NOTE Confidence: 0.864866894705882

00:47:44.316 --> 00:47:47.232 and the revisions are fairly common.

NOTE Confidence: 0.864866894705882

00:47:47.240 --> 00:47:49.900 This is one of the such an example where the

NOTE Confidence: 0.864866894705882

00:47:49.965 --> 00:47:52.629 initial islands of skin were just too large.

NOTE Confidence: 0.864866894705882

00:47:52.630 --> 00:47:54.748 They're important early on for monitoring

NOTE Confidence: 0.864866894705882

00:47:54.748 --> 00:47:56.889 of the healthiness of the tissues,

NOTE Confidence: 0.864866894705882

00:47:56.890 --> 00:48:00.022 but later can be removed and the shape of

NOTE Confidence: 0.864866894705882

00:48:00.022 --> 00:48:03.090 the breast can be remarkably improved.

NOTE Confidence: 0.864866894705882

00:48:03.090 --> 00:48:05.862 Now, in patients that don't have

NOTE Confidence: 0.864866894705882

00:48:05.862 --> 00:48:08.660 enough subcutaneous fat and often don't

NOTE Confidence: 0.864866894705882

00:48:08.660 --> 00:48:12.072 have enough even tissue on the chest

NOTE Confidence: 0.864866894705882

00:48:12.072 --> 00:48:14.557 to reconstruct with implant alone,

NOTE Confidence: 0.864866894705882

00:48:14.560 --> 00:48:16.942 we still use a combination of

NOTE Confidence: 0.864866894705882

00:48:16.942 --> 00:48:18.530 autologous or patients own.

NOTE Confidence: 0.864866894705882

00:48:18.530 --> 00:48:19.604 In this case,

NOTE Confidence: 0.864866894705882

00:48:19.604 --> 00:48:21.036 latissimus dorsi broad muscle

NOTE Confidence: 0.864866894705882

00:48:21.036 --> 00:48:22.922 of the back has brought.

NOTE Confidence: 0.864866894705882

00:48:22.922 --> 00:48:25.358 Forward and wrapped around an implant.

NOTE Confidence: 0.864866894705882

00:48:25.360 --> 00:48:26.940 So this is this.

NOTE Confidence: 0.864866894705882

00:48:26.940 --> 00:48:29.310 Is Miss Dorsey muscular cutaneous weapon

NOTE Confidence: 0.864866894705882

00:48:29.389 --> 00:48:32.595 implant and that allows us to reconstruct

NOTE Confidence: 0.864866894705882

00:48:32.595 --> 00:48:34.540 president is challenging patients

NOTE Confidence: 0.864866894705882

00:48:34.540 --> 00:48:37.025 with inadequate amount of tissues.

NOTE Confidence: 0.864866894705882

00:48:37.030 --> 00:48:39.406 Now we have heard a little bit about

NOTE Confidence: 0.864866894705882

00:48:39.406 --> 00:48:41.471 breast cancer related lymphoedema we

NOTE Confidence: 0.864866894705882

00:48:41.471 --> 00:48:44.000 are now and it's one of the new things

NOTE Confidence: 0.864866894705882

00:48:44.073 --> 00:48:46.663 that is very interesting and and the

NOTE Confidence: 0.864866894705882

00:48:46.663 --> 00:48:48.911 early results are just trickling in

NOTE Confidence: 0.864866894705882

00:48:48.911 --> 00:48:51.173 from all over the United States.

NOTE Confidence: 0.864866894705882

00:48:51.180 --> 00:48:53.084 There are new treatments that allow us,

NOTE Confidence: 0.864866894705882

00:48:53.090 --> 00:48:55.070 especially early on,

NOTE Confidence: 0.864866894705882

00:48:55.070 --> 00:48:57.050 perform various interventions

NOTE Confidence: 0.864866894705882

00:48:57.050 --> 00:48:59.690 that bypass the obstructions.

NOTE Confidence: 0.864866894705882

00:48:59.690 --> 00:49:02.075 They're typically related to dissection

NOTE Confidence: 0.864866894705882

00:49:02.075 --> 00:49:05.569 of the armpit as well as radiation

NOTE Confidence: 0.864866894705882

00:49:05.569 --> 00:49:08.139 and treated by either connecting.

NOTE Confidence: 0.864866894705882

00:49:08.140 --> 00:49:09.890 Now the lymphatic vessels directly

NOTE Confidence: 0.864866894705882

00:49:09.890 --> 00:49:10.940 through the veins.

NOTE Confidence: 0.864866894705882

00:49:10.940 --> 00:49:13.478 What's called Lynn for the venous

NOTE Confidence: 0.864866894705882

00:49:13.478 --> 00:49:15.620 anastomosis or transfer of lymph

NOTE Confidence: 0.864866894705882

00:49:15.620 --> 00:49:17.864 nodes from elsewhere in the body

NOTE Confidence: 0.864866894705882

00:49:17.864 --> 00:49:20.400 to provide the breach of drainage.

NOTE Confidence: 0.864866894705882

00:49:20.400 --> 00:49:22.696 So if I were to summarize some of

NOTE Confidence: 0.864866894705882

00:49:22.696 --> 00:49:24.120 the new techniques,

NOTE Confidence: 0.864866894705882

00:49:24.120 --> 00:49:26.205 gradually replacing breast

NOTE Confidence: 0.864866894705882

00:49:26.205 --> 00:49:28.985 with structural fat grafting,

NOTE Confidence: 0.864866894705882

00:49:28.990 --> 00:49:30.442 removing implant or expander,

NOTE Confidence: 0.864866894705882

00:49:30.442 --> 00:49:33.537 deflating it is one of the novel ways

NOTE Confidence: 0.864866894705882

00:49:33.537 --> 00:49:35.647 that we're looking at potentially

NOTE Confidence: 0.864866894705882

00:49:35.647 --> 00:49:37.655 treating patients in order to

NOTE Confidence: 0.864866894705882

00:49:37.655 --> 00:49:39.677 maximize the natural feel of the

NOTE Confidence: 0.864866894705882

00:49:39.677 --> 00:49:41.816 breast and minimize the need for

NOTE Confidence: 0.864866894705882

00:49:41.816 --> 00:49:44.558 implant and in some cases the implant

NOTE Confidence: 0.864866894705882

00:49:44.558 --> 00:49:46.498 can be removed altogether.

NOTE Confidence: 0.864866894705882

00:49:46.500 --> 00:49:48.858 In cases where we really need,

NOTE Confidence: 0.864866894705882

00:49:48.860 --> 00:49:51.226 we don't have enough abdominal donor site.

NOTE Confidence: 0.864866894705882

00:49:51.230 --> 00:49:53.495 There are other potential donor

NOTE Confidence: 0.864866894705882

00:49:53.495 --> 00:49:55.307 sites for reconstructing breasts

NOTE Confidence: 0.864866894705882

00:49:55.307 --> 00:49:57.742 and outside of the stomach it can

NOTE Confidence: 0.864866894705882

00:49:57.742 --> 00:49:59.960 be hipped areas or inner thighs,

NOTE Confidence: 0.864866894705882

00:49:59.960 --> 00:50:02.240 and then finally lymphatic surgery

NOTE Confidence: 0.864866894705882

00:50:02.240 --> 00:50:04.064 for upper extremity lymphoedema.

NOTE Confidence: 0.864866894705882

00:50:04.070 --> 00:50:08.150 Those are just some of these new advances.

NOTE Confidence: 0.864866894705882

00:50:08.150 --> 00:50:08.963 But in summary,

NOTE Confidence: 0.864866894705882

00:50:08.963 --> 00:50:10.860 I would say almost every patient has

NOTE Confidence: 0.864866894705882

00:50:10.914 --> 00:50:12.739 an option of breast reconstruction.

NOTE Confidence: 0.864866894705882

00:50:12.740 --> 00:50:13.751 There are very,

NOTE Confidence: 0.864866894705882

00:50:13.751 --> 00:50:15.773 very few exceptions where I would

NOTE Confidence: 0.864866894705882

00:50:15.773 --> 00:50:17.742 feel it's not recommended there.

NOTE Confidence: 0.864866894705882

00:50:17.742 --> 00:50:18.990 They should be tailored.

NOTE Confidence: 0.864866894705882

00:50:18.990 --> 00:50:20.360 All of those options should

NOTE Confidence: 0.864866894705882

00:50:20.360 --> 00:50:21.730 be tailored to each option,

NOTE Confidence: 0.864866894705882

00:50:21.730 --> 00:50:23.210 their overall medical status,

NOTE Confidence: 0.864866894705882

00:50:23.210 --> 00:50:23.950 their body,

NOTE Confidence: 0.864866894705882

00:50:23.950 --> 00:50:25.402 and their personal preferences.

NOTE Confidence: 0.864866894705882

00:50:25.402 --> 00:50:27.580 Not everybody can invest the time

NOTE Confidence: 0.864866894705882

00:50:27.644 --> 00:50:29.756 of recovery to use their own

NOTE Confidence: 0.864866894705882

00:50:29.756 --> 00:50:31.164 tissues for breast reconstruction,

NOTE Confidence: 0.864866894705882

00:50:31.170 --> 00:50:33.786 but it's always an option later.

NOTE Confidence: 0.864866894705882

00:50:33.790 --> 00:50:35.757 I would say that more than half

NOTE Confidence: 0.864866894705882

00:50:35.757 --> 00:50:36.977 of breast reconstructions require

NOTE Confidence: 0.864866894705882

00:50:36.977 --> 00:50:38.277 more than one operations.

NOTE Confidence: 0.864866894705882

00:50:38.280 --> 00:50:39.765 And that's important to remember

NOTE Confidence: 0.864866894705882

00:50:39.765 --> 00:50:41.087 whether it's ****** reconstruction

NOTE Confidence: 0.864866894705882

00:50:41.087 --> 00:50:43.222 or revision revisions of shape

NOTE Confidence: 0.864866894705882

00:50:43.222 --> 00:50:44.930 for the two really

NOTE Confidence: 0.817295381875

00:50:45.002 --> 00:50:47.738 enhance the cosmetic appearance are very,

NOTE Confidence: 0.817295381875

00:50:47.740 --> 00:50:49.204 very common. And finally,

NOTE Confidence: 0.817295381875

00:50:49.204 --> 00:50:51.034 it's important to remember that

NOTE Confidence: 0.817295381875

00:50:51.034 --> 00:50:52.507 every reconstructive operation

NOTE Confidence: 0.817295381875

00:50:52.507 --> 00:50:54.599 ends as aesthetic operations,

NOTE Confidence: 0.817295381875

00:50:54.600 --> 00:50:57.576 so the nice result is really

NOTE Confidence: 0.817295381875

00:50:57.576 --> 00:50:59.560 paramount of our efforts.

NOTE Confidence: 0.817295381875

00:50:59.560 --> 00:51:00.890 And with that, thank you very much.

NOTE Confidence: 0.744379996666667

00:51:03.820 --> 00:51:06.886 Thank you so much Doctor Pomahac.

NOTE Confidence: 0.744379996666667

00:51:06.890 --> 00:51:09.766 We have a few questions in our chat

NOTE Confidence: 0.744379996666667

00:51:09.766 --> 00:51:11.638 box and to the audience members.

NOTE Confidence: 0.744379996666667

00:51:11.640 --> 00:51:14.510 Feel free to continue to put your

NOTE Confidence: 0.744379996666667

00:51:14.510 --> 00:51:17.350 questions in the chat for Doctor Park

NOTE Confidence: 0.744379996666667

00:51:17.350 --> 00:51:20.150 and perhaps you also Dr Palmer height.

NOTE Confidence: 0.744379996666667

00:51:20.150 --> 00:51:21.668 There is a question about ******

NOTE Confidence: 0.744379996666667

00:51:21.670 --> 00:51:24.982 sparing procedures and if one of you or

NOTE Confidence: 0.744379996666667

00:51:24.982 --> 00:51:28.459 both of you would like to talk about.

NOTE Confidence: 0.744379996666667

00:51:28.460 --> 00:51:29.937 Who is a candidate for a ******

NOTE Confidence: 0.744379996666667

00:51:29.940 --> 00:51:30.758 sparing mastectomies?

NOTE Confidence: 0.744379996666667

00:51:30.758 --> 00:51:32.394 On what considerations should

NOTE Confidence: 0.744379996666667

00:51:32.394 --> 00:51:34.030 be taken for that?

NOTE Confidence: 0.940161596666667

00:51:34.500 --> 00:51:39.300 Sure, so I think this is Carol's question.

NOTE Confidence: 0.940161596666667

00:51:39.300 --> 00:51:41.274 So what is the recurrence of disease

NOTE Confidence: 0.940161596666667

00:51:41.274 --> 00:51:43.353 in those that opt to spare their

NOTE Confidence: 0.940161596666667

00:51:43.353 --> 00:51:44.820 ******* and are they at higher risk?

NOTE Confidence: 0.940161596666667

00:51:44.820 --> 00:51:46.145 So there are indications for

NOTE Confidence: 0.940161596666667

00:51:46.145 --> 00:51:47.268 ****** sparing mastectomy.

NOTE Confidence: 0.940161596666667

00:51:47.268 --> 00:51:50.271 We really consider it like any other

NOTE Confidence: 0.940161596666667

89

00:51:50.271 --> 00:51:52.667 skin margin at this day and age.

NOTE Confidence: 0.940161596666667

00:51:52.670 --> 00:51:55.620 We also so as long as the cancer is not

NOTE Confidence: 0.940161596666667

00:51:55.695 --> 00:51:58.534 frankly right behind the ****** we think

NOTE Confidence: 0.940161596666667

00:51:58.534 --> 00:52:00.263 that you know uncle logically it's safe

NOTE Confidence: 0.940161596666667

00:52:00.263 --> 00:52:01.924 to do the ****** sparing mastectomy.

NOTE Confidence: 0.940161596666667

00:52:01.924 --> 00:52:05.604 We also also have a fail of a fail safe

NOTE Confidence: 0.940161596666667

00:52:05.604 --> 00:52:08.436 step in the operating room where we do

NOTE Confidence: 0.940161596666667

00:52:08.519 --> 00:52:11.078 a ****** core biopsy and make sure so

NOTE Confidence: 0.940161596666667

00:52:11.078 --> 00:52:13.934 you know we do the ****** sparing mastectomy.

NOTE Confidence: 0.940161596666667

00:52:13.934 --> 00:52:16.016 We take any tissue that's right

NOTE Confidence: 0.940161596666667

00:52:16.016 --> 00:52:18.642 behind the ****** and we had that

NOTE Confidence: 0.940161596666667

00:52:18.642 --> 00:52:20.557 specially tested by the pathologist

NOTE Confidence: 0.940161596666667

00:52:20.557 --> 00:52:23.060 with intraoperative frozen section.

NOTE Confidence: 0.940161596666667

00:52:23.060 --> 00:52:25.562 They look for any appearance of

NOTE Confidence: 0.940161596666667

00:52:25.562 --> 00:52:28.443 any cancer cells, and you know.

NOTE Confidence: 0.940161596666667

00:52:28.443 --> 00:52:30.607 So that's another safeguard.

NOTE Confidence: 0.940161596666667

00:52:30.610 --> 00:52:31.834 Other than that,

NOTE Confidence: 0.940161596666667

00:52:31.834 --> 00:52:34.282 the other kind of very conservative,

NOTE Confidence: 0.940161596666667

00:52:34.290 --> 00:52:37.796 but in more and more relaxing criteria

NOTE Confidence: 0.940161596666667

00:52:37.796 --> 00:52:39.926 for ****** sparing mastectomy generally,

NOTE Confidence: 0.940161596666667

00:52:39.930 --> 00:52:42.100 folks that are smaller breasted,

NOTE Confidence: 0.940161596666667

00:52:42.100 --> 00:52:44.728 have less risk of something called

NOTE Confidence: 0.940161596666667

00:52:44.728 --> 00:52:47.490 ****** necrosis or ****** death.

NOTE Confidence: 0.940161596666667

00:52:47.490 --> 00:52:50.058 And folks that have less breast

NOTE Confidence: 0.940161596666667

00:52:50.058 --> 00:52:52.528 ptosis or droopiness of the breast

NOTE Confidence: 0.940161596666667

00:52:52.528 --> 00:52:54.538 basically also have less complications

NOTE Confidence: 0.940161596666667

00:52:54.538 --> 00:52:56.374 with their ******* potentially

NOTE Confidence: 0.940161596666667

00:52:56.374 --> 00:52:58.790 having issues post operatively.

NOTE Confidence: 0.940161596666667

00:52:58.790 --> 00:53:01.716 But I always tell patients if this

NOTE Confidence: 0.940161596666667

00:53:01.716 --> 00:53:04.143 very important to you could always

NOTE Confidence: 0.940161596666667

00:53:04.143 --> 00:53:07.183 try it and you know if the ****** ends

NOTE Confidence: 0.940161596666667

00:53:07.183 --> 00:53:08.941 up being involved in the interrupter

NOTE Confidence: 0.940161596666667

00:53:08.941 --> 00:53:10.585 frozen section then we'll we'll deal

NOTE Confidence: 0.940161596666667

00:53:10.585 --> 00:53:12.430 with it at that point and remove it.

NOTE Confidence: 0.940161596666667

00:53:12.430 --> 00:53:15.126 But we could at least give it a

NOTE Confidence: 0.940161596666667

00:53:15.126 --> 00:53:17.449 good shot from the beginning.

NOTE Confidence: 0.940161596666667

00:53:17.450 --> 00:53:21.728 Also, there's great data saying that.

NOTE Confidence: 0.940161596666667

00:53:21.730 --> 00:53:24.490 Even in patients that have.

NOTE Confidence: 0.940161596666667

00:53:24.490 --> 00:53:27.766 The. BRCA, one or two gene?

NOTE Confidence: 0.940161596666667

00:53:27.770 --> 00:53:29.732 So these are very high risk

NOTE Confidence: 0.940161596666667

00:53:29.732 --> 00:53:31.908 patients to develop breast cancer.

NOTE Confidence: 0.940161596666667

00:53:31.908 --> 00:53:33.854 ****** sparing procedure is considered

NOTE Confidence: 0.940161596666667

00:53:33.854 --> 00:53:36.140 very safe and that's actually a

NOTE Confidence: 0.940161596666667

00:53:36.140 --> 00:53:38.290 preferred method for for preventative

NOTE Confidence: 0.940161596666667

00:53:38.290 --> 00:53:40.400 surgery for ****** sparing mastectomy

NOTE Confidence: 0.940161596666667

00:53:40.400 --> 00:53:42.450 for these bracket 1/2 patients.

NOTE Confidence: 0.940161596666667

00:53:42.450 --> 00:53:44.210 These patients are generally younger

NOTE Confidence: 0.940161596666667

00:53:44.210 --> 00:53:47.001 in their 20s and they're doing this for

NOTE Confidence: 0.940161596666667

00:53:47.001 --> 00:53:49.049 a preventative reason so we love to

NOTE Confidence: 0.940161596666667

00:53:49.049 --> 00:53:50.660 give them ****** sparing mastectomies

NOTE Confidence: 0.940161596666667

00:53:50.660 --> 00:53:53.635 so that they could continue on with

NOTE Confidence: 0.940161596666667

00:53:53.635 --> 00:53:56.190 their lives with with a good quality.

NOTE Confidence: 0.940161596666667

00:53:56.190 --> 00:53:57.145 Life.

NOTE Confidence: 0.940161596666667

00:53:57.145 --> 00:53:58.100 Great

NOTE Confidence: 0.76873288

00:53:58.230 --> 00:54:00.820 thank you Doctor Park Dr.

NOTE Confidence: 0.76873288

00:54:00.820 --> 00:54:02.479 Going to turn this one to you,

NOTE Confidence: 0.76873288

00:54:02.480 --> 00:54:04.585 which is one of the

NOTE Confidence: 0.76873288

00:54:04.585 --> 00:54:06.269 audience members is asking.

NOTE Confidence: 0.76873288

00:54:06.270 --> 00:54:08.822 I guess the broader issue of how we

NOTE Confidence: 0.76873288

00:54:08.822 --> 00:54:10.530 present options to our patients.

NOTE Confidence: 0.76873288

00:54:10.530 --> 00:54:12.714 Obviously, we present reconstruction

NOTE Confidence: 0.76873288

00:54:12.714 --> 00:54:16.707 options and her point is can come

NOTE Confidence: 0.76873288

00:54:16.707 --> 00:54:18.597 non-surgical breast replacement

NOTE Confidence: 0.76873288

00:54:18.597 --> 00:54:21.747 options such as external prostheses

NOTE Confidence: 0.76873288

00:54:21.747 --> 00:54:24.729 be also discussed prior to surgery,

NOTE Confidence: 0.76873288

00:54:24.729 --> 00:54:26.544 so essentially kind of presenting

NOTE Confidence: 0.76873288

00:54:26.544 --> 00:54:28.937 the whole gamut and spectrum of care.

NOTE Confidence: 0.80206711

00:54:29.310 --> 00:54:31.710 Yeah, no, I I think it's absolutely true.

NOTE Confidence: 0.80206711

00:54:31.710 --> 00:54:33.450 Breast reconstruction is an option.

NOTE Confidence: 0.80206711

00:54:33.450 --> 00:54:36.397 It's not a must, and it's always.

NOTE Confidence: 0.80206711

00:54:36.400 --> 00:54:38.626 An option to do nothing essentially

NOTE Confidence: 0.80206711

00:54:38.626 --> 00:54:41.278 allow the chest to be flat and

NOTE Confidence: 0.80206711

00:54:41.278 --> 00:54:43.098 and fit with matching prosthesis

NOTE Confidence: 0.80206711

00:54:43.098 --> 00:54:45.382 as close as it can go as close

NOTE Confidence: 0.80206711

00:54:45.382 --> 00:54:47.664 as it can to the natural side.

NOTE Confidence: 0.80206711

00:54:47.670 --> 00:54:49.546 The other thing that I would say

NOTE Confidence: 0.80206711

00:54:49.546 --> 00:54:51.310 is often the remaining one side

NOTE Confidence: 0.80206711

00:54:51.310 --> 00:54:53.396 can be too large or too droopy,

NOTE Confidence: 0.80206711

00:54:53.400 --> 00:54:55.325 so there are options to treat that

NOTE Confidence: 0.80206711

00:54:55.325 --> 00:54:57.302 up that one residual healthy breast

NOTE Confidence: 0.80206711

00:54:57.302 --> 00:54:59.850 with either Lyft or reduction so that

NOTE Confidence: 0.80206711

00:54:59.917 --> 00:55:02.065 it's easier to match the prosthesis.

NOTE Confidence: 0.80206711

00:55:02.070 --> 00:55:03.942 So all of those are options that can

NOTE Confidence: 0.80206711

00:55:03.942 --> 00:55:05.381 be discussed and certainly should

NOTE Confidence: 0.80206711

00:55:05.381 --> 00:55:06.906 be discussed during the visit.

NOTE Confidence: 0.80206711

00:55:06.910 --> 00:55:08.840 Whether it's with surgical oncologist

NOTE Confidence: 0.80206711

00:55:08.840 --> 00:55:09.998 or plastic surgeon.

NOTE Confidence: 0.80206062

00:55:10.910 --> 00:55:14.949 Great thank you all kind of pose.

NOTE Confidence: 0.80206062

00:55:14.950 --> 00:55:17.180 Pose a question to our

NOTE Confidence: 0.80206062

00:55:17.180 --> 00:55:18.964 panel members about age.

NOTE Confidence: 0.80206062

00:55:18.970 --> 00:55:22.476 We have come a long way to kind of

NOTE Confidence: 0.80206062

00:55:22.476 --> 00:55:24.142 as we kind of continue the theme

NOTE Confidence: 0.80206062

00:55:24.142 --> 00:55:25.989 of personalizing our therapies.

NOTE Confidence: 0.80206062

00:55:25.990 --> 00:55:28.104 Wanted to kind of get your thoughts
NOTE Confidence: 0.80206062

00:55:28.104 --> 00:55:30.984 on the age of the patient and how
NOTE Confidence: 0.80206062

00:55:30.984 --> 00:55:32.889 that may impact or decision-making.
NOTE Confidence: 0.80206062

00:55:32.890 --> 00:55:35.368 I'll start with medical oncology by
NOTE Confidence: 0.80206062

00:55:35.368 --> 00:55:38.569 saying that we have really kind of kind
NOTE Confidence: 0.80206062

00:55:38.569 --> 00:55:41.380 of stopped thinking of an age cutoff.
NOTE Confidence: 0.80206062

00:55:41.380 --> 00:55:43.515 For certain treatments and medical
NOTE Confidence: 0.80206062

00:55:43.515 --> 00:55:46.117 oncology and really focus on looking
NOTE Confidence: 0.80206062

00:55:46.117 --> 00:55:48.475 at the whole patient looking at
NOTE Confidence: 0.80206062

00:55:48.475 --> 00:55:50.778 how functional you are, what what,
NOTE Confidence: 0.80206062

00:55:50.778 --> 00:55:52.723 what other medical conditions you
NOTE Confidence: 0.80206062

00:55:52.723 --> 00:55:55.388 have and so typically do not have
NOTE Confidence: 0.80206062

00:55:55.388 --> 00:55:57.518 an age cutoff for our medical
NOTE Confidence: 0.80206062

00:55:57.589 --> 00:55:59.188 oncology treatments up.
NOTE Confidence: 0.80206062

00:55:59.190 --> 00:56:00.470 You know, with the exceptions,
NOTE Confidence: 0.80206062

00:56:00.470 --> 00:56:01.226 of course,

NOTE Confidence: 0.80206062

00:56:01.226 --> 00:56:03.926 maybe I'll turn it over to Doctor

NOTE Confidence: 0.80206062

00:56:03.926 --> 00:56:06.482 Park in terms of age considerations

NOTE Confidence: 0.80206062

00:56:06.482 --> 00:56:07.760 and axilla management.

NOTE Confidence: 0.80206062

00:56:07.760 --> 00:56:09.314 And then we'll go to Doctor Palmer,

NOTE Confidence: 0.80206062

00:56:09.320 --> 00:56:09.810 so

NOTE Confidence: 0.820988114285714

00:56:09.820 --> 00:56:12.810 I completely echo Dr Lustberg

NOTE Confidence: 0.820988114285714

00:56:12.810 --> 00:56:15.654 statements about. Uhm, about age.

NOTE Confidence: 0.820988114285714

00:56:15.654 --> 00:56:18.942 I feel like the life expectancy

NOTE Confidence: 0.820988114285714

00:56:18.942 --> 00:56:22.787 is getting more and more longer.

NOTE Confidence: 0.820988114285714

00:56:22.790 --> 00:56:23.906 You know, until level,

NOTE Confidence: 0.820988114285714

00:56:23.906 --> 00:56:26.574 I think like 70 is the new 50 because

NOTE Confidence: 0.820988114285714

00:56:26.574 --> 00:56:28.434 our ability to keep people alive

NOTE Confidence: 0.820988114285714

00:56:28.434 --> 00:56:30.664 in a with a good quality of life.

NOTE Confidence: 0.820988114285714

00:56:30.670 --> 00:56:32.638 As is. You know it's not unusual to

NOTE Confidence: 0.820988114285714

00:56:32.638 --> 00:56:34.390 have people live to their late 90s.

NOTE Confidence: 0.820988114285714

00:56:34.390 --> 00:56:36.145 It's not surprising.

NOTE Confidence: 0.820988114285714

00:56:36.145 --> 00:56:39.070 So I myself also don't.

NOTE Confidence: 0.820988114285714

00:56:39.070 --> 00:56:41.632 I alter and curate the surgical

NOTE Confidence: 0.820988114285714

00:56:41.632 --> 00:56:43.889 treatment based on patients medical

NOTE Confidence: 0.820988114285714

00:56:43.889 --> 00:56:46.751 problems and they're kind of overall

NOTE Confidence: 0.820988114285714

00:56:46.751 --> 00:56:49.444 functional status and sometimes on an

NOTE Confidence: 0.820988114285714

00:56:49.444 --> 00:56:51.328 older person has a great functional

NOTE Confidence: 0.820988114285714

00:56:51.328 --> 00:56:53.290 status and sometimes the person that's.

NOTE Confidence: 0.820988114285714

00:56:53.290 --> 00:56:54.920 Decades younger has a terrible

NOTE Confidence: 0.820988114285714

00:56:54.920 --> 00:56:56.224 functional status because they

NOTE Confidence: 0.820988114285714

00:56:56.224 --> 00:56:57.860 have lots of comorbidities and

NOTE Confidence: 0.820988114285714

00:56:57.860 --> 00:56:59.425 lots of other medical problems.

NOTE Confidence: 0.820988114285714

00:56:59.430 --> 00:57:01.140 That kind of make them a

NOTE Confidence: 0.820988114285714

00:57:01.140 --> 00:57:01.995 higher surgical risk.

NOTE Confidence: 0.820988114285714

00:57:02.000 --> 00:57:04.304 So I think about that versus

NOTE Confidence: 0.820988114285714

00:57:04.304 --> 00:57:05.456 actual chronological age.

NOTE Confidence: 0.811118226666667

00:57:06.540 --> 00:57:08.034 And I would. I would echo

NOTE Confidence: 0.811118226666667

00:57:08.034 --> 00:57:09.640 exactly what it was just said.

NOTE Confidence: 0.811118226666667

00:57:09.640 --> 00:57:12.328 It's a it's really tailored to the patient,

NOTE Confidence: 0.811118226666667

00:57:12.330 --> 00:57:14.436 not necessarily age of the patient.

NOTE Confidence: 0.811118226666667

00:57:14.440 --> 00:57:16.808 And we work with the patient to make

NOTE Confidence: 0.811118226666667

00:57:16.808 --> 00:57:19.331 sure that they choose option that they

NOTE Confidence: 0.811118226666667

00:57:19.331 --> 00:57:21.780 find most palatable and going forward.

NOTE Confidence: 0.811118226666667

00:57:21.780 --> 00:57:24.660 I think there's a huge future in in

NOTE Confidence: 0.811118226666667

00:57:24.660 --> 00:57:26.440 even specializing the postoperative

NOTE Confidence: 0.811118226666667

00:57:26.440 --> 00:57:28.905 protocols for patients above certain

NOTE Confidence: 0.811118226666667

00:57:28.905 --> 00:57:32.130 age so that we can we can minimize

NOTE Confidence: 0.811118226666667

00:57:32.130 --> 00:57:34.231 complications related to the smaller

NOTE Confidence: 0.811118226666667

00:57:34.231 --> 00:57:36.787 reserve or certain of certain types.

NOTE Confidence: 0.811897795

00:57:38.170 --> 00:57:40.074 Doctor Park, I'm going to take this

NOTE Confidence: 0.811897795

00:57:40.074 --> 00:57:43.454 one to you. An audience member is

NOTE Confidence: 0.811897795

00:57:43.454 --> 00:57:46.018 asking about atypical hyperplasia.

NOTE Confidence: 0.811897795

00:57:46.020 --> 00:57:48.716 UM and a risk factor for breast cancer.

NOTE Confidence: 0.812125860833333

00:57:49.550 --> 00:57:51.886 So atypical ductal hyperplasia,

NOTE Confidence: 0.812125860833333

00:57:51.886 --> 00:57:55.390 or atypical or kind of precancerous

NOTE Confidence: 0.812125860833333

00:57:55.483 --> 00:57:57.705 or cancerous duct cells that are in

NOTE Confidence: 0.812125860833333

00:57:57.705 --> 00:58:00.490 the breast duct, but at a very, very.

NOTE Confidence: 0.812125860833333

00:58:00.490 --> 00:58:03.250 Limited fashion, so we actually treat

NOTE Confidence: 0.812125860833333

00:58:03.250 --> 00:58:06.510 this in a outside because the best

NOTE Confidence: 0.812125860833333

00:58:06.510 --> 00:58:09.611 way would be like a holistic manner.

NOTE Confidence: 0.812125860833333

00:58:09.620 --> 00:58:12.280 We look at the patients risk factors.

NOTE Confidence: 0.812125860833333

00:58:12.280 --> 00:58:14.702 All of their other breast cancer risk

NOTE Confidence: 0.812125860833333

00:58:14.702 --> 00:58:17.024 factors which are many things as well

NOTE Confidence: 0.812125860833333

00:58:17.024 --> 00:58:19.712 as their family history and also how it

NOTE Confidence: 0.812125860833333

00:58:19.712 --> 00:58:22.214 looks like on mammography, if it looks.

NOTE Confidence: 0.812125860833333

00:58:22.214 --> 00:58:24.602 Very concerning on mammography and the

NOTE Confidence: 0.812125860833333

00:58:24.602 --> 00:58:27.452 vibes ended up being atypical ductal

NOTE Confidence: 0.812125860833333

00:58:27.452 --> 00:58:29.827 hyperplasia that would generally push

NOTE Confidence: 0.812125860833333

00:58:29.903 --> 00:58:32.303 us to excising it in case there is

NOTE Confidence: 0.812125860833333

00:58:32.303 --> 00:58:34.554 a hidden cancer in there somewhere.

NOTE Confidence: 0.812125860833333

00:58:34.554 --> 00:58:39.579 That's called upgrade. So that is.

NOTE Confidence: 0.812125860833333

00:58:39.580 --> 00:58:41.602 It's really a multi factorial thing

NOTE Confidence: 0.812125860833333

00:58:41.602 --> 00:58:44.403 so if you have a lot of family

NOTE Confidence: 0.812125860833333

00:58:44.403 --> 00:58:45.783 history of breast cancer,

NOTE Confidence: 0.812125860833333

00:58:45.790 --> 00:58:48.360 other risk factors which include

NOTE Confidence: 0.812125860833333

00:58:48.360 --> 00:58:50.930 your reproductive history as well

NOTE Confidence: 0.812125860833333

00:58:51.016 --> 00:58:54.028 as estrogen exposure as well as

NOTE Confidence: 0.812125860833333

00:58:54.028 --> 00:58:56.266 your mammographic findings is it

NOTE Confidence: 0.812125860833333

00:58:56.266 --> 00:58:58.444 kind of a suspicious looking masks?

NOTE Confidence: 0.812125860833333

00:58:58.450 --> 00:59:00.879 Or is it just you know some

NOTE Confidence: 0.812125860833333

00:59:00.879 --> 00:59:01.920 borderline looking calcifications?

NOTE Confidence: 0.812125860833333

00:59:01.920 --> 00:59:03.648 All of that is taken together

NOTE Confidence: 0.812125860833333

00:59:03.648 --> 00:59:05.200 as well as you know,

NOTE Confidence: 0.812125860833333

00:59:05.200 --> 00:59:10.226 age is also consideration to remove it.

NOTE Confidence: 0.812125860833333

00:59:10.230 --> 00:59:11.628 And to see if there's an

NOTE Confidence: 0.812125860833333

00:59:11.628 --> 00:59:12.560 underlying cancer in there.

NOTE Confidence: 0.833374845454545

00:59:14.850 --> 00:59:16.955 Great, we have one question

NOTE Confidence: 0.833374845454545

00:59:16.955 --> 00:59:19.550 is being answered in the chat.

NOTE Confidence: 0.833374845454545

00:59:19.550 --> 00:59:25.340 UM so keep an eye on that up and then come.

NOTE Confidence: 0.833374845454545

00:59:25.340 --> 00:59:26.908 But this question I'm going to turn

NOTE Confidence: 0.833374845454545

00:59:26.908 --> 00:59:28.590 over to you Doctor Park as well.

NOTE Confidence: 0.833374845454545

00:59:28.590 --> 00:59:33.158 It's about operating on stage zero and DCIS,

NOTE Confidence: 0.833374845454545

00:59:33.160 --> 00:59:35.290 and considerations for that. So

NOTE Confidence: 0.599299804

00:59:35.300 --> 00:59:36.584 ductal carcinoma, insight,

NOTE Confidence: 0.599299804

00:59:36.584 --> 00:59:39.260 or DCIS, is a pre invasive cancer.

NOTE Confidence: 0.599299804

00:59:39.260 --> 00:59:41.940 This is like consider like a step multiple

NOTE Confidence: 0.599299804

00:59:41.940 --> 00:59:44.448 steps past atypical ductal hyperplasia.

NOTE Confidence: 0.599299804

00:59:44.450 --> 00:59:47.210 But before invasive breast cancer,

NOTE Confidence: 0.599299804

00:59:47.210 --> 00:59:49.380 as of now, the textbook treatment is

NOTE Confidence: 0.599299804

00:59:49.380 --> 00:59:51.449 very similar to treating a cancer.

NOTE Confidence: 0.599299804

00:59:51.450 --> 00:59:53.052 You remove it where it's treated

NOTE Confidence: 0.599299804

00:59:53.052 --> 00:59:54.571 with radiation and if it's

NOTE Confidence: 0.599299804

00:59:54.571 --> 00:59:55.759 estrogen receptor positive.

NOTE Confidence: 0.599299804

00:59:55.760 --> 00:59:58.460 Also treated with systemic type

NOTE Confidence: 0.599299804

00:59:58.460 --> 01:00:00.620 therapy like endocrine therapy.

NOTE Confidence: 0.599299804

01:00:00.620 --> 01:00:05.618 There is some thought that certain low grade.

NOTE Confidence: 0.599299804

01:00:05.620 --> 01:00:07.400 Types of DCIS that strongly

NOTE Confidence: 0.599299804

01:00:07.400 --> 01:00:08.824 estrogen receptor positive could

NOTE Confidence: 0.599299804

01:00:08.824 --> 01:00:10.598 be treated non operatively.

NOTE Confidence: 0.599299804

01:00:10.600 --> 01:00:13.009 That's an ongoing.

NOTE Confidence: 0.599299804

01:00:13.010 --> 01:00:16.094 Point of study and trials are

NOTE Confidence: 0.599299804

01:00:16.094 --> 01:00:18.150 actively the comet trial.

NOTE Confidence: 0.599299804

01:00:18.150 --> 01:00:20.082 And a central are being actively done

NOTE Confidence: 0.599299804

01:00:20.082 --> 01:00:22.587 to see if we could identify a subgroup

NOTE Confidence: 0.599299804

01:00:22.587 --> 01:00:24.886 of patients that have DCIS that may

NOTE Confidence: 0.599299804

01:00:24.886 --> 01:00:26.441 never really progressed to cancer

NOTE Confidence: 0.599299804

01:00:26.441 --> 01:00:29.716 and may be a slow growing indolent

NOTE Confidence: 0.599299804

01:00:29.716 --> 01:00:32.636 static phenomenon for that cohort,

NOTE Confidence: 0.599299804

01:00:32.640 --> 01:00:34.960 but definitely for other cohorts.

NOTE Confidence: 0.599299804

01:00:34.960 --> 01:00:37.125 Folks with higher were busy

NOTE Confidence: 0.599299804

01:00:37.125 --> 01:00:39.290 looking cancer cells or high

NOTE Confidence: 0.599299804

01:00:39.368 --> 01:00:41.918 grade cancer cells that are DCIS.

NOTE Confidence: 0.599299804

01:00:41.920 --> 01:00:44.240 We we generally stick with standard of care,

NOTE Confidence: 0.599299804

01:00:44.240 --> 01:00:46.960 which is excision or radiation,

NOTE Confidence: 0.599299804

01:00:46.960 --> 01:00:50.124 and and it's some sort of systemic

NOTE Confidence: 0.599299804

01:00:50.124 --> 01:00:52.210 hormonal anti hormone therapy.

NOTE Confidence: 0.787442442222222

01:00:54.230 --> 01:00:57.902 Create an. Where at the top

NOTE Confidence: 0.787442442222222

01:00:57.902 --> 01:01:01.396 of the hour I wanted to come,

NOTE Confidence: 0.787442442222222

01:01:01.396 --> 01:01:03.466 there's just one more question.

NOTE Confidence: 0.787442442222222

01:01:03.470 --> 01:01:05.030 I'm just gonna answer and then

NOTE Confidence: 0.787442442222222

01:01:05.030 --> 01:01:06.699 I'll close that so so it's

NOTE Confidence: 0.787442442222222

01:01:06.699 --> 01:01:08.139 related to the park inhibitor.

NOTE Confidence: 0.787442442222222

01:01:08.140 --> 01:01:09.172 All impares a.

NOTE Confidence: 0.787442442222222

01:01:09.172 --> 01:01:12.078 Is it recommended for all BRCA one or

NOTE Confidence: 0.787442442222222

01:01:12.078 --> 01:01:14.610 two carriers regardless of cancer type?

NOTE Confidence: 0.787442442222222

01:01:14.610 --> 01:01:17.137 So studies are being done for prevention

NOTE Confidence: 0.787442442222222

01:01:17.137 --> 01:01:19.598 or risk reduction if there's no cancer,

NOTE Confidence: 0.787442442222222

01:01:19.600 --> 01:01:22.407 but in terms of current FDA approval

NOTE Confidence: 0.787442442222222

01:01:22.407 --> 01:01:24.490 it's indicated for metastatic,

NOTE Confidence: 0.787442442222222

01:01:24.490 --> 01:01:27.000 BRCA one and two tumors.

NOTE Confidence: 0.787442442222222

01:01:27.000 --> 01:01:29.718 And then the Advent indication for

NOTE Confidence: 0.787442442222222

01:01:29.718 --> 01:01:32.530 high risk here positive as well

NOTE Confidence: 0.787442442222222

01:01:32.530 --> 01:01:34.820 as triple negative breast cancer.

NOTE Confidence: 0.787442442222222

01:01:34.820 --> 01:01:36.720 Their results have been reported.

NOTE Confidence: 0.787442442222222

01:01:36.720 --> 01:01:38.834 We don't have official FDA approval yet,

NOTE Confidence: 0.787442442222222

01:01:38.840 --> 01:01:41.976 but were able to get the agents,

NOTE Confidence: 0.787442442222222

01:01:41.980 --> 01:01:45.940 so I would say in the metastatic setting,

NOTE Confidence: 0.787442442222222

01:01:45.940 --> 01:01:48.005 regardless of the cancer type

NOTE Confidence: 0.787442442222222

01:01:48.005 --> 01:01:49.657 in the adjuvant setting,

NOTE Confidence: 0.787442442222222

01:01:49.660 --> 01:01:51.380 it would be triple negative and higher risk,

NOTE Confidence: 0.787442442222222

01:01:51.380 --> 01:01:54.430 ER, positive disease for now.

NOTE Confidence: 0.787442442222222

01:01:54.430 --> 01:01:54.720 Well,

NOTE Confidence: 0.787442442222222

01:01:54.720 --> 01:01:56.460 thank you to the audience members

NOTE Confidence: 0.787442442222222

01:01:56.460 --> 01:01:58.090 for joining on your evening.

NOTE Confidence: 0.787442442222222

01:01:58.090 --> 01:02:01.098 A special thank you to my panelists for

NOTE Confidence: 0.787442442222222

01:02:01.098 --> 01:02:04.410 a great discussion and wonderful talks.

NOTE Confidence: 0.787442442222222

01:02:04.410 --> 01:02:06.418 There will be a number of other smiles,

NOTE Confidence: 0.787442442222222

01:02:06.420 --> 01:02:08.568 shares events with different

NOTE Confidence: 0.787442442222222

01:02:08.568 --> 01:02:10.716 topics throughout the month,

NOTE Confidence: 0.787442442222222

01:02:10.720 --> 01:02:13.648 so feel free to check out our sites

NOTE Confidence: 0.787442442222222

01:02:13.650 --> 01:02:17.465 for those events and thank you again.

NOTE Confidence: 0.787442442222222

01:02:17.470 --> 01:02:18.178 Have a good night.