WEBVTT

00:00:00.000 --> 00:00:01.855 Here with us today I see a

00:00:01.855 --> 00:00:03.559 lot of friends on this call,

00:00:03.560 --> 00:00:05.126 so I'm super excited that you

00:00:05.126 --> 00:00:07.068 all join us on the Snowy day.

00:00:07.070 --> 00:00:09.230 I guess that's the benefit of kovit instead,

00:00:09.230 --> 00:00:10.814 so we don't have to worry

00:00:10.814 --> 00:00:12.200 about canceling of the snow.

00:00:12.200 --> 00:00:12.738 Nothing changes.

00:00:12.738 --> 00:00:13.814 Everything is exactly the

00:00:13.814 --> 00:00:15.170 same as my kids were.

00:00:15.170 --> 00:00:16.511 Disappointed that there's

00:00:16.511 --> 00:00:19.193 not gonna be a snow day.

00:00:19.200 --> 00:00:20.856 So I'm Elena Ratner.

00:00:20.856 --> 00:00:22.914 I wanted the Joanne oncologists

00:00:22.914 --> 00:00:25.398 and Gloria Wong is with us.

00:00:25.400 --> 00:00:28.256 Who is one of my colleagues and

00:00:28.256 --> 00:00:29.970 associate professor of join

00:00:29.970 --> 00:00:32.045 ecology at Yale University and

00:00:32.045 --> 00:00:34.586 we provide care all through the

00:00:34.586 --> 00:00:36.586 state of Connecticut all the

00:00:36.586 --> 00:00:39.023 way from New Haven to granich.

00:00:39.023 --> 00:00:40.256 And that's wrong.

00:00:40.260 --> 00:00:42.300 Actually now provides care in

00:00:42.300 --> 00:00:44.811 Greenwich Full Time which were super

00:00:44.811 --> 00:00:47.181 super excited about and that could

00:00:47.181 --> 00:00:50.171 then yellow addio who's with us was

00:00:50.171 --> 00:00:51.907 an amazing radiation oncologists.

00:00:51.910 --> 00:00:53.181 In the Greenwich community,

00:00:53.181 --> 00:00:55.396 and we're so excited that you're here

00:00:55.396 --> 00:00:57.618 with us today to talk about chemical

NOTE Confidence: 0.857298

00:00:57.618 --> 00:00:59.526 logic answers and what has changed

NOTE Confidence: 0.857298

00:00:59.526 --> 00:01:01.418 in the management of these cancers.

NOTE Confidence: 0.857298

00:01:01.420 --> 00:01:03.010 And this is very informal.

NOTE Confidence: 0.857298

00:01:03.010 --> 00:01:04.978 So as you ladies have questions

NOTE Confidence: 0.857298

00:01:04.978 --> 00:01:06.809 that you would like to ask,

NOTE Confidence: 0.857298

00:01:06.810 --> 00:01:08.889 please put them in the chat and

NOTE Confidence: 0.857298

00:01:08.889 --> 00:01:11.223 I will be watching the chat and

NOTE Confidence: 0.857298

00:01:11.223 --> 00:01:13.780 we can talk about them as we go.

NOTE Confidence: 0.857298

00:01:13.780 --> 00:01:15.670 Otherwise will start back along if

NOTE Confidence: 0.857298

00:01:15.670 --> 00:01:18.007 you would like to start talking a

NOTE Confidence: 0.857298

00:01:18.007 --> 00:01:20.041 little bit about early detection and

NOTE Confidence: 0.857298

00:01:20.041 --> 00:01:21.863 the advances that we've made and

NOTE Confidence: 0.857298

00:01:21.863 --> 00:01:24.112 then I will add to your presentation.

NOTE Confidence: 0.857298

00:01:24.112 --> 00:01:25.756 And then that area.

NOTE Confidence: 0.857298

00:01:25.760 --> 00:01:26.918 If that's OK,

NOTE Confidence: 0.8535068

00:01:26.920 --> 00:01:28.460 we will have actually,

NOTE Confidence: 0.8535068

00:01:28.460 --> 00:01:30.770 because radiation it's a little bit.

NOTE Confidence: 0.8535068

00:01:30.770 --> 00:01:31.540 Probably not.

NOTE Confidence: 0.8535068

00:01:31.540 --> 00:01:33.850 People don't know so much about,

NOTE Confidence: 0.8535068

00:01:33.850 --> 00:01:36.154 so I have like a PowerPoint

NOTE Confidence: 0.8535068

00:01:36.154 --> 00:01:37.700 with some slides. OK,

NOTE Confidence: 0.8535068

00:01:37.700 --> 00:01:38.855 wonderful, that's great.

NOTE Confidence: 0.8535068

00:01:38.855 --> 00:01:40.780 So will perceive like that.

NOTE Confidence: 0.8535068

00:01:40.780 --> 00:01:42.826 So that's a long wonderful thank

NOTE Confidence: 0.8535068

00:01:42.826 --> 00:01:45.399 you so much for the introduction

NOTE Confidence: 0.8535068

00:01:45.400 --> 00:01:48.862 Doctor Ratner and hello to all of our guests.

NOTE Confidence: 0.8535068

00:01:48.862 --> 00:01:52.330 And thank you so much for joining us today.

NOTE Confidence: 0.8535068

00:01:52.330 --> 00:01:54.330 I actually made some up

NOTE Confidence: 0.8535068

00:01:54.330 --> 00:01:55.930 PowerPoint pictures as well.

NOTE Confidence: 0.8535068

00:01:55.930 --> 00:01:57.934 So I will try to share

NOTE Confidence: 0.8535068

00:01:57.934 --> 00:01:59.660 those and get started now.

NOTE Confidence: 0.8535068

00:01:59.660 --> 00:02:01.739 So let me just go ahead and

NOTE Confidence: 0.8535068

00:02:01.739 --> 00:02:03.729 just do my screen share.

NOTE Confidence: 0.89763665

00:02:18.060 --> 00:02:21.673 So I'm happy to talk about recent advances

NOTE Confidence: 0.89763665

00:02:21.673 --> 00:02:23.477 in gynecological cancer prevention,

NOTE Confidence: 0.89763665

00:02:23.480 --> 00:02:25.740 early detection and treatment today.

NOTE Confidence: 0.8093594

00:02:29.500 --> 00:02:31.828 To review what we're talking

NOTE Confidence: 0.8093594

00:02:31.828 --> 00:02:33.226 about gynecological cancers.

NOTE Confidence: 0.8093594

00:02:33.230 --> 00:02:36.026 These are cancers that arise from

NOTE Confidence: 0.8093594

00:02:36.026 --> 00:02:37.890 the female reproductive system,

NOTE Confidence: 0.8093594

00:02:37.890 --> 00:02:40.674 with the most common being uterine

NOTE Confidence: 0.8093594

00:02:40.674 --> 00:02:43.010 cancer arising from the womb.

NOTE Confidence: 0.8093594

00:02:43.010 --> 00:02:46.279 Most often, the lining of the uterus,

NOTE Confidence: 0.8093594

00:02:46.280 --> 00:02:48.610 called the endometrium ovarian cancer,

NOTE Confidence: 0.8093594

00:02:48.610 --> 00:02:50.008 which actually encompases,

NOTE Confidence: 0.8093594

00:02:50.008 --> 00:02:50.940 ovarian, fallopian,

NOTE Confidence: 0.8093594

00:02:50.940 --> 00:02:52.335 and peritoneal cancer,

NOTE Confidence: 0.8093594

00:02:52.335 --> 00:02:54.195 and then cervical cancer,

NOTE Confidence: 0.8093594

00:02:54.200 --> 00:02:56.600 which arises from the neck.

NOTE Confidence: 0.8093594

00:02:56.600 --> 00:02:59.554 Or opening of the of the womb.

NOTE Confidence: 0.8093594

00:02:59.560 --> 00:03:01.675 These are the three most

NOTE Confidence: 0.8093594

00:03:01.675 --> 00:03:03.790 common types of ginj cancer.

NOTE Confidence: 0.8655089

00:03:05.840 --> 00:03:08.640 See if I can advance here.

NOTE Confidence: 0.8655089

00:03:08.640 --> 00:03:11.448 Just how common are these cancers?

NOTE Confidence: 0.8655089

00:03:11.450 --> 00:03:14.348 Uterine cancer is the most common in

NOTE Confidence: 0.8655089

00:03:14.348 --> 00:03:18.953 about 1 in 35 women in the US will receive

NOTE Confidence: 0.8655089

00:03:18.953 --> 00:03:21.769 this diagnosis during their lifetime.

NOTE Confidence: 0.8655089

00:03:21.770 --> 00:03:24.374 Ovarian cancer is the second most

NOTE Confidence: 0.8655089

00:03:24.374 --> 00:03:27.223 common with about one and 70

NOTE Confidence: 0.8655089

00:03:27.223 --> 00:03:29.275 women developing ovarian cancer,

NOTE Confidence: 0.8655089

00:03:29.280 --> 00:03:32.776 and cervical cancer is less common now due

NOTE Confidence: 0.8655089

00:03:32.776 --> 00:03:35.837 to improvements in prevention and detection.

NOTE Confidence: 0.8655089

00:03:35.840 --> 00:03:38.552 With about 160 women

NOTE Confidence: 0.8655089

00:03:38.552 --> 00:03:40.586 developing cervical cancer.

NOTE Confidence: 0.8655089

00:03:40.590 --> 00:03:42.876 Cervical cancer is a great example

NOTE Confidence: 0.8655089

00:03:42.876 --> 00:03:46.112 of how far we have advanced in

NOTE Confidence: 0.8655089

00:03:46.112 --> 00:03:48.288 prevention and early detection,

NOTE Confidence: 0.8655089

00:03:48.290 --> 00:03:51.485 so we are able to prevent the vast majority

NOTE Confidence: 0.8655089

00:03:51.485 --> 00:03:55.087 of cervical cancers through HPV vaccination.

NOTE Confidence: 0.8655089

00:03:55.090 --> 00:03:56.365 And in addition,

NOTE Confidence: 0.8655089

00:03:56.365 --> 00:03:58.915 we have met modalities of early

NOTE Confidence: 0.8655089

00:03:58.915 --> 00:04:00.519 detection using cytology,

NOTE Confidence: 0.8655089

00:04:00.520 --> 00:04:04.048 most commonly known as Pap test

NOTE Confidence: 0.8655089

00:04:04.048 --> 00:04:05.812 and HPV testing.

NOTE Confidence: 0.8655089

00:04:05.820 --> 00:04:09.018 So the vast majority of cervical

NOTE Confidence: 0.8655089

00:04:09.018 --> 00:04:11.650 cancers are caused by HPV,

NOTE Confidence: 0.8655089

00:04:11.650 --> 00:04:13.240 human papilloma papilloma

00:04:13.240 --> 00:04:15.360 virus infection with HPV,

00:04:15.360 --> 00:04:17.480 infection rates historically have

00:04:17.480 --> 00:04:21.720 been most adults about 85% or more of

00:04:21.720 --> 00:04:24.900 adults having been infected by HPV,

00:04:24.900 --> 00:04:28.134 and usually our immune system clears the

00:04:28.134 --> 00:04:31.788 infection and no further sequelae developed.

00:04:31.790 --> 00:04:32.320 However,

00:04:32.320 --> 00:04:34.970 in some women and men,

00:04:34.970 --> 00:04:37.690 persistent HPV infection can develop.

00:04:37.690 --> 00:04:39.850 Which actually can lead to the

00:04:39.850 --> 00:04:42.151 virus genes becoming part of the

00:04:42.151 --> 00:04:43.735 cell's DNA called integration,

00:04:43.740 --> 00:04:46.169 and that is the type of HPV

00:04:46.169 --> 00:04:48.520 infection that can lead to pre

00:04:48.520 --> 00:04:50.160 cancer and cancer lesions.

00:04:52.980 --> 00:04:56.076 As I said, we are lucky enough to have

NOTE Confidence: 0.85790277

00:04:56.076 --> 00:04:58.303 cancer prevention for cervical cancer

NOTE Confidence: 0.85790277

00:04:58.303 --> 00:05:01.700 and that consists of the HPV vaccine,

NOTE Confidence: 0.85790277

00:05:01.700 --> 00:05:05.020 which in this country is the Gardasil 9.

NOTE Confidence: 0.85790277

00:05:05.020 --> 00:05:07.090 Not only does this prevent

NOTE Confidence: 0.85790277

00:05:07.090 --> 00:05:09.813 over 90% of cervical cancer,

NOTE Confidence: 0.85790277

00:05:09.813 --> 00:05:12.968 but five additional cancers are.

NOTE Confidence: 0.85790277

00:05:12.970 --> 00:05:15.175 Related to HPV infection in

NOTE Confidence: 0.85790277

00:05:15.175 --> 00:05:16.939 these include oral pharyngeal,

NOTE Confidence: 0.85790277

00:05:16.940 --> 00:05:19.581 which is throat cancer, **** cancer,

NOTE Confidence: 0.85790277

00:05:19.581 --> 00:05:21.786 vulva, ***** and vagina cancer.

NOTE Confidence: 0.85790277

00:05:21.790 --> 00:05:24.562 So these vaccines work the best

NOTE Confidence: 0.85790277

00:05:24.562 --> 00:05:27.960 when they are given at an early age,

NOTE Confidence: 0.85790277

00:05:27.960 --> 00:05:31.040 usually around age 11 or 12 is the

NOTE Confidence: 0.85790277

00:05:31.040 --> 00:05:33.745 ideal time and in younger patients

NOTE Confidence: 0.85790277

00:05:33.745 --> 00:05:36.517 only two vaccine two shots are

NOTE Confidence: 0.85790277

00:05:36.605 --> 00:05:39.425 needed in older teens and adults.

NOTE Confidence: 0.85790277

00:05:39.430 --> 00:05:42.517 Three shots are needed to have good.

NOTE Confidence: 0.85790277

00:05:42.520 --> 00:05:44.280 A good preventive effect.

NOTE Confidence: 0.852958

00:05:46.430 --> 00:05:49.699 Screening is has evolved over the years,

NOTE Confidence: 0.852958

00:05:49.700 --> 00:05:53.108 and screening is still done for women who

NOTE Confidence: 0.852958

00:05:53.108 --> 00:05:56.699 have and have not received the vaccines.

NOTE Confidence: 0.852958

00:05:56.700 --> 00:05:59.556 However, in order to kind of reduce

NOTE Confidence: 0.852958

00:05:59.556 --> 00:06:01.936 the invasiveness of screening and

NOTE Confidence: 0.852958

00:06:01.936 --> 00:06:04.636 reduce tests and invasive procedures,

NOTE Confidence: 0.852958

00:06:04.640 --> 00:06:08.376 we now start screening at an older age.

NOTE Confidence: 0.852958

00:06:08.380 --> 00:06:12.097 So 21 and up and also we have longer

NOTE Confidence: 0.852958

00:06:12.097 --> 00:06:15.479 screening intervals for low risk patients.

NOTE Confidence: 0.852958

00:06:15.480 --> 00:06:17.390 So while previously patients were

NOTE Confidence: 0.852958

00:06:17.390 --> 00:06:20.652 going every year for a PAP Now we

NOTE Confidence: 0.852958

00:06:20.652 --> 00:06:22.364 still recommends Wellness visits.

NOTE Confidence: 0.852958

00:06:22.370 --> 00:06:25.002 However, the actual PAP and HPV tests

NOTE Confidence: 0.852958

00:06:25.002 --> 00:06:28.244 can be spaced at an interval of three to

NOTE Confidence: 0.852958

00:06:28.244 --> 00:06:30.715 five years and then also discontinuing

NOTE Confidence: 0.852958

00:06:30.715 --> 00:06:33.300 screening in patients at very,

NOTE Confidence: 0.852958

00:06:33.300 --> 00:06:36.149 very low risks such as those who've

NOTE Confidence: 0.852958

00:06:36.149 --> 00:06:39.019 had a hysterectomy with removal of the

NOTE Confidence: 0.852958

00:06:39.019 --> 00:06:41.850 cervix not related to pre cancer or

NOTE Confidence: 0.852958

00:06:41.850 --> 00:06:44.250 elderly women who've had many negative

NOTE Confidence: 0.852958

00:06:44.250 --> 00:06:46.998 paps and no history of pre cancers.

NOTE Confidence: 0.852958

00:06:46.998 --> 00:06:49.856 Just a caveat that these are general

NOTE Confidence: 0.852958

00:06:49.856 --> 00:06:52.161 guidelines for lowers patients and

NOTE Confidence: 0.852958

00:06:52.161 --> 00:06:54.945 don't apply to high risk patients

NOTE Confidence: 0.852958

00:06:54.945 --> 00:06:57.531 so high risk patients are patients

NOTE Confidence: 0.852958

00:06:57.531 --> 00:06:59.576 who might have immunosuppression

NOTE Confidence: 0.852958

00:06:59.576 --> 00:07:03.104 or have had history of persistent

NOTE Confidence: 0.852958

00:07:03.104 --> 00:07:05.540 HPV infection or pre cancer.

NOTE Confidence: 0.852958

00:07:05.540 --> 00:07:07.770 In terms of future directions,

NOTE Confidence: 0.852958

00:07:07.770 --> 00:07:10.746 an alternative has evolved which is

NOTE Confidence: 0.852958

00:07:10.746 --> 00:07:13.186 primary HPV screening with types

NOTE Confidence: 0.852958

00:07:13.186 --> 00:07:16.194 typing of the HPV and we'll see this

NOTE Confidence: 0.852958

00:07:16.194 --> 00:07:18.890 more and more with HPV screening,

NOTE Confidence: 0.852958

00:07:18.890 --> 00:07:21.914 typing and then determining what if

NOTE Confidence: 0.852958

00:07:21.914 --> 00:07:25.190 anything needs to be done further.

NOTE Confidence: 0.852958

00:07:25.190 --> 00:07:27.774 I am so proud to say that Connecticut

NOTE Confidence: 0.852958

00:07:27.774 --> 00:07:31.188 is a national leader in HPV vaccination.

NOTE Confidence: 0.852958

00:07:31.190 --> 00:07:33.360 So while the United States as a

NOTE Confidence: 0.852958

00:07:33.360 --> 00:07:35.399 whole has lagged vaccination rates

NOTE Confidence: 0.852958

00:07:35.399 --> 00:07:37.989 compared to other developed countries,

NOTE Confidence: 0.852958

00:07:37.990 --> 00:07:40.295 actually Connecticut over 50% of

NOTE Confidence: 0.852958

00:07:40.295 --> 00:07:42.600 eligible women have been vaccinated

NOTE Confidence: 0.852958

00:07:42.672 --> 00:07:44.616 and this is directly related to

NOTE Confidence: 0.852958

00:07:44.616 --> 00:07:46.805 about a 50% decrease in cervical

NOTE Confidence: 0.852958

00:07:46.805 --> 00:07:48.830 cancer deaths since the introduction

NOTE Confidence: 0.852958

00:07:48.830 --> 00:07:50.789 of HPV vaccines in 2006.

NOTE Confidence: 0.852958

00:07:50.790 --> 00:07:55.116 So really it is a success story.

NOTE Confidence: 0.852958

00:07:55.120 --> 00:07:58.304 Now we still see about 12,000 patients per

NOTE Confidence: 0.852958

00:07:58.304 --> 00:08:01.978 year in the US who develop cervical cancer,

NOTE Confidence: 0.852958

00:08:01.980 --> 00:08:03.270 and we have,

NOTE Confidence: 0.852958

00:08:03.270 --> 00:08:05.850 in terms of recent treatment advances,

NOTE Confidence: 0.852958

00:08:05.850 --> 00:08:07.990 we can now offer individualized

NOTE Confidence: 0.852958

00:08:07.990 --> 00:08:08.846 surgical treatment.

NOTE Confidence: 0.852958

00:08:08.850 --> 00:08:11.418 So when cervical cancer does develop,

NOTE Confidence: 0.852958

00:08:11.420 --> 00:08:15.272 it's often in women in their 30s and 40s,

NOTE Confidence: 0.852958

00:08:15.280 --> 00:08:17.704 for some of whom fertility sparing

NOTE Confidence: 0.852958

00:08:17.704 --> 00:08:20.430 to have a family is important,

NOTE Confidence: 0.852958

00:08:20.430 --> 00:08:24.066 so we do have the ability to offer fertility

NOTE Confidence: 0.852958

00:08:24.066 --> 00:08:26.966 sparing surgery to preserve the uterus.

NOTE Confidence: 0.852958

00:08:26.970 --> 00:08:29.766 And allow women to have families

NOTE Confidence: 0.852958

00:08:29.766 --> 00:08:31.164 in selected patients.

NOTE Confidence: 0.852958

00:08:31.170 --> 00:08:32.052 In addition,

NOTE Confidence: 0.852958

00:08:32.052 --> 00:08:34.698 another big advance for patients who

NOTE Confidence: 0.852958

00:08:34.698 --> 00:08:37.020 have recurrent or metastatic cancer

NOTE Confidence: 0.852958

00:08:37.020 --> 00:08:39.750 is being able to offer patients

NOTE Confidence: 0.852958

00:08:39.750 --> 00:08:41.449 immunotherapy when appropriate,

NOTE Confidence: 0.852958

00:08:41.450 --> 00:08:44.719 which really has improved outcomes as well.

NOTE Confidence: 0.84214723

00:08:47.970 --> 00:08:50.196 In contrast to cervical cancer,

NOTE Confidence: 0.84214723

00:08:50.196 --> 00:08:52.426 where we have declining rates,

NOTE Confidence: 0.84214723

00:08:52.430 --> 00:08:53.768 endometrial cancer rates

NOTE Confidence: 0.84214723

00:08:53.768 --> 00:08:55.106 are actually increasing,

NOTE Confidence: 0.84214723

00:08:55.110 --> 00:08:57.917 so there is year over year increases

NOTE Confidence: 0.84214723

00:08:57.917 --> 00:09:01.164 in the number of cases and deaths

NOTE Confidence: 0.84214723

00:09:01.164 --> 00:09:03.576 from endometrial cancer every year.

NOTE Confidence: 0.84214723

00:09:03.576 --> 00:09:05.805 And this is partly related

00:09:05.805 --> 00:09:07.585 to the obesity epidemic.

00:09:07.590 --> 00:09:09.820 Over 90% of endometrial cancer

00:09:09.820 --> 00:09:12.492 is obesity related, so in part,

00:09:12.492 --> 00:09:14.712 related to obesity and related

00:09:14.712 --> 00:09:16.599 conditions such as diabetes.

00:09:16.600 --> 00:09:19.590 An increased insulin levels about

00:09:19.590 --> 00:09:21.990 5% are genetically related,

00:09:21.990 --> 00:09:24.390 such as Lynch syndrome,

00:09:24.390 --> 00:09:29.230 and then there can be other factors such

00:09:29.230 --> 00:09:33.068 as unopposed estrogen or tamoxifen.

00:09:33.070 --> 00:09:36.726 So we have good ways to lower endometrial

00:09:36.726 --> 00:09:38.640 CanSAR endometrial cancer risk.

00:09:38.640 --> 00:09:40.280 And these include maintaining

00:09:40.280 --> 00:09:41.510 a healthy weight.

00:09:41.510 --> 00:09:44.790 Exercising five are made more days of year,

NOTE Confidence: 0.84214723

00:09:44.790 --> 00:09:46.950 and we know that taking oral

NOTE Confidence: 0.84214723

00:09:46.950 --> 00:09:48.910 contraceptives or using a Marina

NOTE Confidence: 0.84214723

00:09:48.910 --> 00:09:51.175 progesterone IUD can be helpful

NOTE Confidence: 0.84214723

00:09:51.175 --> 00:09:52.987 for reducing long-term risks.

NOTE Confidence: 0.84214723

00:09:52.990 --> 00:09:55.040 Long term avoiding unopposed estrogen.

NOTE Confidence: 0.84214723

00:09:55.040 --> 00:09:57.910 If you have a uterus and really

NOTE Confidence: 0.84214723

00:09:57.910 --> 00:09:59.995 to be aware of what?

NOTE Confidence: 0.84214723

00:09:59.995 --> 00:10:00.885 Warning signs,

NOTE Confidence: 0.84214723

00:10:00.885 --> 00:10:03.555 so any bleeding or spotting after

NOTE Confidence: 0.84214723

00:10:03.555 --> 00:10:06.053 menopause is abnormal and should

NOTE Confidence: 0.84214723

00:10:06.053 --> 00:10:08.033 prompt a gynecological evaluation.

NOTE Confidence: 0.81352216

00:10:10.690 --> 00:10:13.234 And we know how how Lynch

NOTE Confidence: 0.81352216

00:10:13.234 --> 00:10:15.420 syndrome can impact cancer risk,

NOTE Confidence: 0.81352216

00:10:15.420 --> 00:10:17.808 including risk of colon cancer and

NOTE Confidence: 0.81352216

00:10:17.808 --> 00:10:20.580 a mutual cancer and ovarian cancer.

NOTE Confidence: 0.81352216

16

00:10:20.580 --> 00:10:22.440 So patients who women who

NOTE Confidence: 0.81352216

00:10:22.440 --> 00:10:24.300 have Lynch syndrome should be

NOTE Confidence: 0.81352216

00:10:24.368 --> 00:10:26.600 followed with enhanced screening,

NOTE Confidence: 0.81352216

00:10:26.600 --> 00:10:28.320 cancer screening for endometrial

NOTE Confidence: 0.81352216

00:10:28.320 --> 00:10:30.040 cancer can include exams,

NOTE Confidence: 0.81352216

00:10:30.040 --> 00:10:31.752 ultrasounds and endometrial biopsies,

NOTE Confidence: 0.81352216

00:10:31.752 --> 00:10:34.891 and then we can offer women with

NOTE Confidence: 0.81352216

00:10:34.891 --> 00:10:37.396 Lynch syndrome risk reducing surgery

NOTE Confidence: 0.81352216

00:10:37.396 --> 00:10:39.820 usually consisting of hysterectomy and

NOTE Confidence: 0.81352216

00:10:39.820 --> 00:10:42.298 removal of the tubes and ovaries after.

NOTE Confidence: 0.81352216

00:10:42.300 --> 00:10:43.707 Childbearing is completed.

NOTE Confidence: 0.81352216

00:10:43.707 --> 00:10:46.052 I also wanted to highlight

NOTE Confidence: 0.81352216

00:10:46.052 --> 00:10:48.456 recent advances in the surgical

NOTE Confidence: 0.81352216

00:10:48.456 --> 00:10:50.320 treatment of endometrial cancer.

NOTE Confidence: 0.81352216

00:10:50.320 --> 00:10:53.225 So over the past decades we have

NOTE Confidence: 0.81352216

00:10:53.225 --> 00:10:56.458 really moved to to the point where

NOTE Confidence: 0.81352216

00:10:56.458 --> 00:10:59.308 almost all of our endometrial cancer

NOTE Confidence: 0.81352216

00:10:59.401 --> 00:11:02.125 patients are being treated in

NOTE Confidence: 0.81352216

00:11:02.125 --> 00:11:04.013 minimally invasive surgical approaches

NOTE Confidence: 0.81352216

00:11:04.013 --> 00:11:06.368 laparoscopically and or robotic assisted,

NOTE Confidence: 0.81352216

00:11:06.370 --> 00:11:09.422 and this offers short recovery times and

NOTE Confidence: 0.81352216

00:11:09.422 --> 00:11:12.040 quick resumption to usual activities.

NOTE Confidence: 0.81352216

00:11:12.040 --> 00:11:13.160 And really.

NOTE Confidence: 0.81352216

00:11:13.160 --> 00:11:15.960 Decreases the morbidity of an

NOTE Confidence: 0.81352216

00:11:15.960 --> 00:11:17.640 endometrial cancer diagnosis.

NOTE Confidence: 0.81352216

00:11:17.640 --> 00:11:20.240 An in fact, often less,

NOTE Confidence: 0.81352216

00:11:20.240 --> 00:11:21.138 is more,

NOTE Confidence: 0.81352216

00:11:21.138 --> 00:11:23.832 and this is illustrated by selective

NOTE Confidence: 0.81352216

00:11:23.832 --> 00:11:26.613 lymph node evaluation with procedures

NOTE Confidence: 0.81352216

00:11:26.613 --> 00:11:29.618 such as Sentinel node evaluation,

NOTE Confidence: 0.81352216

00:11:29.620 --> 00:11:32.920 which can be very sensitive for

NOTE Confidence: 0.81352216

00:11:32.920 --> 00:11:35.917 detecting disease outside the uterus

NOTE Confidence: 0.81352216

00:11:35.917 --> 00:11:39.447 while decreasing potential side effects.

NOTE Confidence: 0.81352216

00:11:39.450 --> 00:11:42.138 I also wanted to highlight that

NOTE Confidence: 0.81352216

00:11:42.138 --> 00:11:44.862 endometrial cancer we really have moved

NOTE Confidence: 0.81352216

00:11:44.862 --> 00:11:47.830 into the area era of precision medicine,

NOTE Confidence: 0.81352216

00:11:47.830 --> 00:11:50.195 so we currently perform molecular

NOTE Confidence: 0.81352216

00:11:50.195 --> 00:11:52.560 testing on all endometrial cancers

NOTE Confidence: 0.81352216

00:11:52.636 --> 00:11:54.850 to detect protein changes in the

NOTE Confidence: 0.81352216

00:11:54.850 --> 00:11:57.351 tumor cells that can indicate a

NOTE Confidence: 0.81352216

00:11:57.351 --> 00:11:59.736 potential presence of Lynch syndrome,

NOTE Confidence: 0.81352216

00:11:59.740 --> 00:12:01.940 an also these protein changes,

NOTE Confidence: 0.81352216

00:12:01.940 --> 00:12:03.515 called Immunohistochemical Street,

NOTE Confidence: 0.81352216

00:12:03.515 --> 00:12:07.190 can guide our treatment decisions as well.

NOTE Confidence: 0.81352216

00:12:07.190 --> 00:12:08.040 In addition,

NOTE Confidence: 0.81352216

00:12:08.040 --> 00:12:09.740 immunotherapy is available for

NOTE Confidence: 0.81352216

00:12:09.740 --> 00:12:11.878 most patients with recurrent or

NOTE Confidence: 0.81352216

00:12:11.878 --> 00:12:13.390 advanced in Dimitriou cancer,

NOTE Confidence: 0.81352216

00:12:13.390 --> 00:12:16.694 and in fact we have a number of

NOTE Confidence: 0.81352216

00:12:16.694 --> 00:12:18.748 clinical trials on going now.

NOTE Confidence: 0.81352216

00:12:18.750 --> 00:12:20.875 Also looking at immunotherapy in

NOTE Confidence: 0.81352216

00:12:20.875 --> 00:12:23.000 the frontline setting for patients

NOTE Confidence: 0.81352216

00:12:23.072 --> 00:12:25.358 with higher risk into mutual cancer.

NOTE Confidence: 0.81352216

00:12:25.360 --> 00:12:27.478 We also are actively investigating the

NOTE Confidence: 0.81352216

00:12:27.478 --> 00:12:30.729 how we can best deploy endocrine therapies,

NOTE Confidence: 0.81352216

00:12:30.730 --> 00:12:32.800 hormone therapies Brenda Mitchell Cancer,

NOTE Confidence: 0.81352216

00:12:32.800 --> 00:12:35.264 which as you know are very much

NOTE Confidence: 0.81352216

00:12:35.264 --> 00:12:37.500 the mainstay of breast cancer

NOTE Confidence: 0.81352216

00:12:37.500 --> 00:12:39.700 and prostate cancer treatment.

NOTE Confidence: 0.81352216

00:12:39.700 --> 00:12:42.796 A man are in our under active investigation.

NOTE Confidence: 0.81352216

00:12:42.800 --> 00:12:43.580 In fact,

NOTE Confidence: 0.81352216

00:12:43.580 --> 00:12:45.530 I'm leading set one such

NOTE Confidence: 0.81352216

00:12:45.530 --> 00:12:47.070 national trial right now,

NOTE Confidence: 0.81352216

00:12:47.070 --> 00:12:48.622 which hopefully will lead

NOTE Confidence: 0.81352216

00:12:48.622 --> 00:12:50.174 to some new therapy,

NOTE Confidence: 0.81352216

00:12:50.180 --> 00:12:52.490 ways to treat endometrial cancer and

NOTE Confidence: 0.81352216

00:12:52.490 --> 00:12:55.878 more and more you'll see that will be

NOTE Confidence: 0.81352216

00:12:55.878 --> 00:12:57.658 incorporating targeted therapies in

NOTE Confidence: 0.81352216

00:12:57.658 --> 00:13:00.109 the frontline and recurrent setting.

NOTE Confidence: 0.81352216

00:13:00.110 --> 00:13:02.270 In terms of endometrial cancer survivorship,

NOTE Confidence: 0.81352216

00:13:02.270 --> 00:13:06.030 this is such an important.

NOTE Confidence: 0.81352216

00:13:06.030 --> 00:13:08.020 Part of endometrial cancer care.

NOTE Confidence: 0.81352216

00:13:08.020 --> 00:13:10.005 Because we have excellent oncological

NOTE Confidence: 0.81352216

00:13:10.005 --> 00:13:11.593 outcomes in endometrial cancer.

NOTE Confidence: 0.81352216

00:13:11.600 --> 00:13:13.256 Very high cure rates,

NOTE Confidence: 0.81352216

00:13:13.256 --> 00:13:14.912 especially in patients with

NOTE Confidence: 0.81352216

00:13:14.912 --> 00:13:17.167 early stage disease and in fact,

NOTE Confidence: 0.81352216

00:13:17.170 --> 00:13:19.255 long-term follow-up shows that most

NOTE Confidence: 0.81352216

00:13:19.255 --> 00:13:21.340 engine mutual cancer patients are

NOTE Confidence: 0.81352216

00:13:21.407 --> 00:13:23.647 more likely to die of heart disease

NOTE Confidence: 0.81352216

00:13:23.647 --> 00:13:25.623 and other chronic conditions rather

NOTE Confidence: 0.81352216

00:13:25.623 --> 00:13:27.519 than from endometrial cancer,

NOTE Confidence: 0.81352216

00:13:27.520 --> 00:13:32.280 and this highlights how important it is to.

NOTE Confidence: 0.81352216

00:13:32.280 --> 00:13:35.250 To come.

NOTE Confidence: 0.81352216

00:13:35.250 --> 00:13:36.670 To incorporate lifestyle changes

NOTE Confidence: 0.81352216

00:13:36.670 --> 00:13:38.800 as well as part of endometrial

NOTE Confidence: 0.81352216

00:13:38.861 --> 00:13:39.989 cancer survivorship.

NOTE Confidence: 0.84878683

00:13:42.310 --> 00:13:44.896 Moving on to a barren cancer,

NOTE Confidence: 0.84878683

00:13:44.900 --> 00:13:47.170 our understanding of ovarian cancer

NOTE Confidence: 0.84878683

00:13:47.170 --> 00:13:49.901 has really greatly advanced over the

NOTE Confidence: 0.84878683

00:13:49.901 --> 00:13:52.247 past decade and how we conceptualize,

NOTE Confidence: 0.84878683

00:13:52.250 --> 00:13:54.938 aware in cancer now is based on

NOTE Confidence: 0.84878683

00:13:54.938 --> 00:13:57.429 the origins of ovarian cancer,

NOTE Confidence: 0.84878683

00:13:57.430 --> 00:13:59.590 with type one actually often

NOTE Confidence: 0.84878683

00:13:59.590 --> 00:14:00.886 arising in endometriosis,

NOTE Confidence: 0.84878683

00:14:00.890 --> 00:14:03.482 which is a very common benign

NOTE Confidence: 0.84878683

00:14:03.482 --> 00:14:05.210 condition of reproductive age.

NOTE Confidence: 0.84878683

00:14:05.210 --> 00:14:07.796 Women as well as from borderline

NOTE Confidence: 0.84878683

00:14:07.796 --> 00:14:08.658 precursor lesions.

NOTE Confidence: 0.84878683

00:14:08.660 --> 00:14:12.118 In contrast, Type 2 which are the.

NOTE Confidence: 0.84878683

00:14:12.118 --> 00:14:15.574 I tend to be more aggressive.

NOTE Confidence: 0.84878683

00:14:15.580 --> 00:14:18.338 It often actually rise in the fallopian

NOTE Confidence: 0.84878683

00:14:18.338 --> 00:14:21.118 tube lining cells initiated by insights,

NOTE Confidence: 0.84878683

00:14:21.120 --> 00:14:23.250 you cancer cells cause sticks,

NOTE Confidence: 0.84878683

00:14:23.250 --> 00:14:26.976 so this is really kind of a paradigm shift

NOTE Confidence: 0.84878683

00:14:26.976 --> 00:14:30.529 in how we understand ovarian cancer.

NOTE Confidence: 0.84878683

00:14:30.530 --> 00:14:34.610 And is related to understanding more of the

NOTE Confidence: 0.84878683

00:14:34.610 --> 00:14:38.139 molecular and genetics of ovarian cancer.

NOTE Confidence: 0.84878683

00:14:38.140 --> 00:14:41.158 We know that there's several very

NOTE Confidence: 0.84878683

00:14:41.158 --> 00:14:43.690 well established ways that we

NOTE Confidence: 0.84878683

00:14:43.690 --> 00:14:46.276 can lower or ovarian cancer risk.

NOTE Confidence: 0.84878683

00:14:46.280 --> 00:14:48.680 Breastfeeding and pregnancy are associated

NOTE Confidence: 0.84878683

00:14:48.680 --> 00:14:51.042 with decreased ovarian cancer risks,

NOTE Confidence: 0.84878683

00:14:51.042 --> 00:14:53.808 and really anything that decreases the

NOTE Confidence: 0.84878683

00:14:53.808 --> 00:14:56.818 number of lifetime abula Tori cycles,

NOTE Confidence: 0.84878683

00:14:56.820 --> 00:14:58.732 including oral contraceptive use

NOTE Confidence: 0.84878683

00:14:58.732 --> 00:15:00.644 during the reproductive years.

NOTE Confidence: 0.84878683

00:15:00.650 --> 00:15:04.010 In addition, removal of the fallopian tubes,

NOTE Confidence: 0.84878683

00:15:04.010 --> 00:15:07.906 such as having a self inject a MIS.

NOTE Confidence: 0.84878683

00:15:07.910 --> 00:15:08.862 For, for,

NOTE Confidence: 0.84878683

00:15:08.862 --> 00:15:11.718 for Tubal ligation can greatly reduce

NOTE Confidence: 0.84878683

00:15:11.718 --> 00:15:14.799 the risk of ovarian cancer women,

NOTE Confidence: 0.84878683

00:15:14.800 --> 00:15:17.400 especially if they have first

NOTE Confidence: 0.84878683

00:15:17.400 --> 00:15:20.000 degree relatives with breast cancer

NOTE Confidence: 0.84878683

00:15:20.088 --> 00:15:21.688 and or first degree.

NOTE Confidence: 0.84878683

00:15:21.690 --> 00:15:24.150 Relatives with ovarian cancer or

NOTE Confidence: 0.84878683

00:15:24.150 --> 00:15:26.610 personal history of breast cancer,

NOTE Confidence: 0.84878683

00:15:26.610 --> 00:15:29.338 should consider genetic counseling

NOTE Confidence: 0.84878683

00:15:29.338 --> 00:15:32.066 and high risk screening.

NOTE Confidence: 0.84878683

00:15:32.070 --> 00:15:35.446 And just wanted to highlight some of the

NOTE Confidence: 0.84878683

00:15:35.446 --> 00:15:38.448 warning symptoms and signs of ovarian cancer,

NOTE Confidence: 0.84878683

00:15:38.450 --> 00:15:41.000 which unfortunately can sometimes be vague,

NOTE Confidence: 0.84878683

00:15:41.000 --> 00:15:43.120 such as abdominal bloating change,

NOTE Confidence: 0.84878683

00:15:43.120 --> 00:15:43.970 increased waistline,

NOTE Confidence: 0.84878683

00:15:43.970 --> 00:15:44.820 pelvic pain,

NOTE Confidence: 0.84878683

00:15:44.820 --> 00:15:46.095 change in bowel,

NOTE Confidence: 0.84878683

00:15:46.100 --> 00:15:46.948 bladder habits,

NOTE Confidence: 0.84878683

00:15:46.948 --> 00:15:47.796 abnormal bleeding,

NOTE Confidence: 0.84878683

00:15:47.796 --> 00:15:49.916 nausea or feeling of fullness,

NOTE Confidence: 0.84878683

00:15:49.920 --> 00:15:52.846 and most of concern would be when

NOTE Confidence: 0.84878683

00:15:52.846 --> 00:15:54.610 these symptoms are persistent

NOTE Confidence: 0.84878683

00:15:54.610 --> 00:15:57.564 and don't go away on their own,

NOTE Confidence: 0.84878683

00:15:57.570 --> 00:15:59.695 and that should prompt a

NOTE Confidence: 0.84878683

00:15:59.695 --> 00:16:00.545 gynecological examination.

NOTE Confidence: 0.8473171

00:16:02.650 --> 00:16:05.738 We also have learned a lot about hereditary

NOTE Confidence: 0.8473171

00:16:05.738 --> 00:16:08.310 breast and ovarian cancer syndrome,

NOTE Confidence: 0.8473171

00:16:08.310 --> 00:16:10.740 which are you've probably all heard

NOTE Confidence: 0.8473171

00:16:10.740 --> 00:16:13.570 of BRCA one and BRCA two mutations

NOTE Confidence: 0.8473171

00:16:13.570 --> 00:16:16.776 so we have very good ways to detect

NOTE Confidence: 0.8473171

00:16:16.776 --> 00:16:19.321 the presence of inherited changes

NOTE Confidence: 0.8473171

00:16:19.321 --> 00:16:22.236 through blood or saliva tests and

NOTE Confidence: 0.8473171

00:16:22.236 --> 00:16:24.864 that is to detect whether you've

NOTE Confidence: 0.8473171

00:16:24.864 --> 00:16:27.515 inherited these one of these genetic

NOTE Confidence: 0.8473171

00:16:27.515 --> 00:16:30.053 changes from your mother or father.

NOTE Confidence: 0.8473171

00:16:30.060 --> 00:16:31.864 Women with hereditary breast

NOTE Confidence: 0.8473171

00:16:31.864 --> 00:16:33.217 and ovarian cancer.

NOTE Confidence: 0.8473171

00:16:33.220 --> 00:16:35.680 Syndrome benefit from high risk

NOTE Confidence: 0.8473171

00:16:35.680 --> 00:16:38.140 screening risk reducing surgery and

NOTE Confidence: 0.8473171

00:16:38.219 --> 00:16:41.096 I just wanted to highlight that the

NOTE Confidence: 0.8473171

00:16:41.096 --> 00:16:43.863 risk resort reducing surgery is done

NOTE Confidence: 0.8473171

00:16:43.863 --> 00:16:46.288 in a minimally invasive ambulatory

NOTE Confidence: 0.8473171

00:16:46.288 --> 00:16:48.940 surgery usually takes less than one

NOTE Confidence: 0.8473171

00:16:48.940 --> 00:16:51.460 hour with tiny incisions and is

NOTE Confidence: 0.8473171

00:16:51.545 --> 00:16:54.772 recommended around the ages of 35 to

NOTE Confidence: 0.8473171

00:16:54.772 --> 00:16:57.560 45 after completion of childbearing.

NOTE Confidence: 0.8473171

00:16:57.560 --> 00:16:58.600 Of course,

NOTE Confidence: 0.8473171

00:16:58.600 --> 00:17:01.200 this is individualized based on

NOTE Confidence: 0.8473171

00:17:01.200 --> 00:17:04.020 the patient and the patients.

NOTE Confidence: 0.8473171

00:17:04.020 --> 00:17:05.520 Visual considerations.

NOTE Confidence: 0.83129567

00:17:07.830 --> 00:17:11.590 And Lastly, I would like to highlight some

NOTE Confidence: 0.83129567

00:17:11.590 --> 00:17:14.718 recent advances honoring cancer treatment.

00:17:14.720 --> 00:17:17.779 We know more and more that tumor

00:17:17.779 --> 00:17:20.481 debulking remains a cornerstone of

00:17:20.481 --> 00:17:23.726 optimal treatment and improve survival.

00:17:23.730 --> 00:17:26.450 So seeing a gynecological oncologist

00:17:26.450 --> 00:17:29.775 an having surgery either at the

00:17:29.775 --> 00:17:32.883 initial diagnosis or at an interval

00:17:32.883 --> 00:17:35.124 after chemotherapy is important

00:17:35.124 --> 00:17:38.099 for optimal chances of survival.

00:17:38.100 --> 00:17:40.115 We performed we recommend genetic

00:17:40.115 --> 00:17:42.587 counseling and testing in all women

00:17:42.587 --> 00:17:44.557 diagnosed with aware in cancer.

00:17:44.560 --> 00:17:45.368 In addition,

00:17:45.368 --> 00:17:48.196 for all women with advanced ovarian cancer,

00:17:48.200 --> 00:17:50.790 we suggest tumor molecular testing

00:17:50.790 --> 00:17:53.380 and this is important because.

00:17:53.380 --> 00:17:55.344 They really guide treatment

NOTE Confidence: 0.83129567

00:17:55.344 --> 00:17:58.290 decisions on how can we most

NOTE Confidence: 0.83129567

00:17:58.383 --> 00:18:01.628 effectively treat the women's cancer?

NOTE Confidence: 0.83129567

00:18:01.630 --> 00:18:04.484 I'd like to summarize with some

NOTE Confidence: 0.83129567

00:18:04.484 --> 00:18:07.352 take home messages about each of

NOTE Confidence: 0.83129567

00:18:07.352 --> 00:18:10.139 the major types of GYN cancer.

NOTE Confidence: 0.83129567

00:18:10.140 --> 00:18:13.094 The Great News is that cervical cancer

NOTE Confidence: 0.83129567

00:18:13.094 --> 00:18:15.491 is preventable through vaccination and

NOTE Confidence: 0.83129567

00:18:15.491 --> 00:18:18.659 screening for endometrial and ovarian cancer.

NOTE Confidence: 0.83129567

00:18:18.660 --> 00:18:19.995 Surgery by gynecology,

NOTE Confidence: 0.83129567

00:18:19.995 --> 00:18:21.775 oncologists remains a cornerstone

NOTE Confidence: 0.83129567

00:18:21.775 --> 00:18:24.330 of treatment and maximizes survival.

NOTE Confidence: 0.83129567

00:18:24.330 --> 00:18:26.874 And we can now offer precision

NOTE Confidence: 0.83129567

00:18:26.874 --> 00:18:29.268 personalized medicine for all patients

NOTE Confidence: 0.83129567

00:18:29.268 --> 00:18:31.756 with advanced gynecological cancer.

NOTE Confidence: 0.83129567

00:18:31.760 --> 00:18:32.670 And this,

NOTE Confidence: 0.83129567

00:18:32.670 --> 00:18:34.945 of course includes multimodal therapies,

NOTE Confidence: 0.83129567

00:18:34.950 --> 00:18:38.233 where we work closely with our radiation

NOTE Confidence: 0.83129567

00:18:38.233 --> 00:18:40.860 oncology experts such as Doctor Dale,

NOTE Confidence: 0.83129567

00:18:40.860 --> 00:18:43.590 who will be speaking as well

NOTE Confidence: 0.83129567

00:18:43.590 --> 00:18:45.410 today and other experts,

NOTE Confidence: 0.83129567

00:18:45.410 --> 00:18:46.310 including geneticists,

NOTE Confidence: 0.83129567

00:18:46.310 --> 00:18:48.560 medical oncologist and the patients

NOTE Confidence: 0.83129567

00:18:48.560 --> 00:18:51.333 general OB GY Ensan primary care

NOTE Confidence: 0.83129567

00:18:51.333 --> 00:18:53.598 physicians for survivorship care plans.

NOTE Confidence: 0.83129567

00:18:53.600 --> 00:18:57.048 So thank you so much for for the

NOTE Confidence: 0.83129567

00:18:57.048 --> 00:18:59.970 chance to speak to you today.

NOTE Confidence: 0.8536724

00:19:02.550 --> 00:19:04.920 Alright, thank you so much Gloria.

NOTE Confidence: 0.8799542

00:19:07.170 --> 00:19:08.506 If there's any questions,

NOTE Confidence: 0.8799542

00:19:08.506 --> 00:19:11.151 if you guys would like to just put

NOTE Confidence: 0.8799542

00:19:11.151 --> 00:19:13.570 them in the chat, feel free. We can.

NOTE Confidence: 0.8799542

00:19:13.570 --> 00:19:17.005 Again, this is very informal and we can

NOTE Confidence: 0.8799542

00:19:17.005 --> 00:19:20.198 ask answer questions as as as we continue.

NOTE Confidence: 0.8799542

00:19:20.200 --> 00:19:23.448 I'm gonna take them a few minutes to

NOTE Confidence: 0.8799542

00:19:23.448 --> 00:19:25.793 continue the conversation that Doctor

NOTE Confidence: 0.8799542

00:19:25.793 --> 00:19:29.727 Wong just just started and talk a little

NOTE Confidence: 0.8799542

00:19:29.727 --> 00:19:33.094 bit more about breast cancer and ovarian

NOTE Confidence: 0.8799542

00:19:33.094 --> 00:19:36.826 cancer and how they relate to each other.

NOTE Confidence: 0.8799542

00:19:36.830 --> 00:19:39.140 And I'll take a look.

NOTE Confidence: 0.8799542

00:19:39.140 --> 00:19:41.450 I'll talk a little bit

NOTE Confidence: 0.8799542

00:19:41.450 --> 00:19:43.298 about really my passion,

NOTE Confidence: 0.8799542

00:19:43.300 --> 00:19:46.527 which is early detection of these cancers.

NOTE Confidence: 0.8799542

00:19:46.530 --> 00:19:52.720 So hold on one second, let me just share my.

NOTE Confidence: 0.8799542

00:19:52.720 --> 00:19:56.536 So like the long spoke so great about kind

NOTE Confidence: 0.8799542

00:19:56.536 --> 00:20:00.359 of logic answers and how the paradigm.

NOTE Confidence: 0.8799542

00:20:00.360 --> 00:20:02.240 This cancers is changing,

NOTE Confidence: 0.8799542

00:20:02.240 --> 00:20:05.711 so I'd like to take the next

NOTE Confidence: 0.8799542

00:20:05.711 --> 00:20:09.540 minutes to discuss a little bit more

NOTE Confidence: 0.8799542

00:20:09.540 --> 00:20:12.369 about detection of these cancers.

NOTE Confidence: 0.8799542

00:20:12.370 --> 00:20:15.492 How much time and effort is being

NOTE Confidence: 0.8799542

00:20:15.492 --> 00:20:18.833 spent right now and improving early

NOTE Confidence: 0.8799542

00:20:18.833 --> 00:20:21.381 detection in improving prevention

NOTE Confidence: 0.8799542

00:20:21.381 --> 00:20:25.707 of these cancers as well as the fact

NOTE Confidence: 0.8799542

00:20:25.707 --> 00:20:28.027 that the achievement of cancers

NOTE Confidence: 0.8799542

00:20:28.030 --> 00:20:30.078 nowadays really has become.

NOTE Confidence: 0.8799542

00:20:30.078 --> 00:20:31.760 Truly, a personalized approach.

NOTE Confidence: 0.8799542

00:20:31.760 --> 00:20:32.540 You know,

NOTE Confidence: 0.8799542

00:20:32.540 --> 00:20:34.856 we don't treat cancers the same

NOTE Confidence: 0.8799542

00:20:34.856 --> 00:20:36.830 way just because cancer said.

NOTE Confidence: 0.8799542

00:20:36.830 --> 00:20:38.000 If the same,

NOTE Confidence: 0.8799542

00:20:38.000 --> 00:20:40.340 we truly treat the patient would

NOTE Confidence: 0.8799542

00:20:40.340 --> 00:20:42.716 truly treat the woman we study

NOTE Confidence: 0.8799542

00:20:42.716 --> 00:20:44.626 all the cancers we study,

NOTE Confidence: 0.8799542

00:20:44.630 --> 00:20:47.012 all the tumors and knowing what

NOTE Confidence: 0.8799542

00:20:47.012 --> 00:20:48.920 mutations that particular tumor has,

NOTE Confidence: 0.8799542

00:20:48.920 --> 00:20:51.260 we are able to offer targeted

NOTE Confidence: 0.8799542

00:20:51.260 --> 00:20:52.820 specific therapy to her.

NOTE Confidence: 0.8799542

00:20:52.820 --> 00:20:54.770 And that's only something different.

NOTE Confidence: 0.8799542

00:20:54.770 --> 00:20:57.110 That's not anything that we used

NOTE Confidence: 0.8799542

00:20:57.110 --> 00:21:00.032 to do before, and we are super,

NOTE Confidence: 0.8799542

00:21:00.032 --> 00:21:01.346 super excited about.

NOTE Confidence: 0.8799542

00:21:01.350 --> 00:21:03.846 The future and about the present,

NOTE Confidence: 0.8799542

00:21:03.850 --> 00:21:06.510 but I'd like to talk a little

NOTE Confidence: 0.8799542

00:21:06.510 --> 00:21:08.859 bit about what comes before.

NOTE Confidence: 0.8799542

00:21:08.860 --> 00:21:11.758 I'd like to talk about not just

NOTE Confidence: 0.8799542

00:21:11.758 --> 00:21:13.859 about early detection of cancer,

NOTE Confidence: 0.8799542

00:21:13.860 --> 00:21:15.950 but about the Holy Grail.

NOTE Confidence: 0.8799542

00:21:15.950 --> 00:21:19.340 the Holy Grail is cancer prevention.

NOTE Confidence: 0.8799542

00:21:19.340 --> 00:21:22.210 So so much of what we're trying

NOTE Confidence: 0.8799542

00:21:22.210 --> 00:21:24.940 to do now is identified.

NOTE Confidence: 0.8799542

00:21:24.940 --> 00:21:28.048 The women who are at higher risk

NOTE Confidence: 0.8799542

00:21:28.048 --> 00:21:30.844 for different cancers and a great

NOTE Confidence: 0.8799542

00:21:30.844 --> 00:21:33.604 amount of that information comes from

NOTE Confidence: 0.8799542

00:21:33.604 --> 00:21:36.617 family history and from the genetics.

NOTE Confidence: 0.8799542

00:21:36.620 --> 00:21:39.742 And this is just one of the

NOTE Confidence: 0.8799542

00:21:39.742 --> 00:21:43.160 examples of one of my patients who,

NOTE Confidence: 0.8799542

00:21:43.160 --> 00:21:45.495 when we started discussing her

NOTE Confidence: 0.8799542

00:21:45.495 --> 00:21:46.429 family history,

NOTE Confidence: 0.8799542

00:21:46.430 --> 00:21:48.338 clearly had genetic predisposition

NOTE Confidence: 0.8799542

00:21:48.338 --> 00:21:49.769 and through which.

NOTE Confidence: 0.8799542

00:21:49.770 --> 00:21:52.776 Her genetic mutation was found and

NOTE Confidence: 0.8799542

00:21:52.776 --> 00:21:56.179 hence cancer in her was prevented.

NOTE Confidence: 0.8799542

00:21:56.180 --> 00:21:58.665 And the driving hypothesis of so much

NOTE Confidence: 0.8799542

00:21:58.665 --> 00:22:01.222 of this work is that many patients

NOTE Confidence: 0.8799542

00:22:01.222 --> 00:22:03.871 might be at risk for several cancers

NOTE Confidence: 0.8799542

00:22:03.871 --> 00:22:06.547 based on personal or family history,

NOTE Confidence: 0.8799542

00:22:06.550 --> 00:22:09.614 kinetic status or personal history of a TPA,

NOTE Confidence: 0.8799542

00:22:09.620 --> 00:22:10.013 hyperplasia.

NOTE Confidence: 0.8799542

00:22:10.013 --> 00:22:12.764 And it's so so important to know

NOTE Confidence: 0.8799542

00:22:12.764 --> 00:22:14.609 because that's the first step.

NOTE Confidence: 0.8799542

00:22:14.610 --> 00:22:16.842 First step is the knowledge of

NOTE Confidence: 0.8799542

00:22:16.842 --> 00:22:19.572 knowing who is at high risk and

NOTE Confidence: 0.8799542

00:22:19.572 --> 00:22:22.281 knowing what they are high risk for,

NOTE Confidence: 0.8799542

00:22:22.290 --> 00:22:25.321 because if we know that then different

NOTE Confidence: 0.8799542

00:22:25.321 --> 00:22:27.279 modifications Kim can be done.

NOTE Confidence: 0.8799542

00:22:27.280 --> 00:22:29.975 And we will talk as to what

NOTE Confidence: 0.8799542

00:22:29.975 --> 00:22:31.130 those modifications are,

NOTE Confidence: 0.8799542

00:22:31.130 --> 00:22:33.060 and they're always the same.

NOTE Confidence: 0.8799542

00:22:33.060 --> 00:22:34.980 They always either surveillance or

35

NOTE Confidence: 0.8799542

00:22:34.980 --> 00:22:36.516 chemoprevention or surgical intervention.

NOTE Confidence: 0.8799542

00:22:36.520 --> 00:22:38.096 So for any cancer,

NOTE Confidence: 0.8799542

00:22:38.096 --> 00:22:40.460 when we worry that the patient

NOTE Confidence: 0.8799542

00:22:40.542 --> 00:22:41.910 could be at risk,

NOTE Confidence: 0.8799542

00:22:41.910 --> 00:22:44.172 we talk about what can be

NOTE Confidence: 0.8799542

00:22:44.172 --> 00:22:45.680 done to decrease that

NOTE Confidence: 0.83732945

00:22:45.761 --> 00:22:49.127 risk or hopefully eliminate it completely.

NOTE Confidence: 0.83732945

00:22:49.130 --> 00:22:51.230 Um, we traditionally management of

NOTE Confidence: 0.83732945

00:22:51.230 --> 00:22:53.760 this patient has not been easy.

NOTE Confidence: 0.83732945

00:22:53.760 --> 00:22:56.058 You know, there's a lot of

NOTE Confidence: 0.83732945

00:22:56.058 --> 00:22:58.390 frustration in the medical community,

NOTE Confidence: 0.83732945

00:22:58.390 --> 00:23:01.057 but they were more so among women

NOTE Confidence: 0.83732945

00:23:01.057 --> 00:23:04.495 in about an among men and patients

NOTE Confidence: 0.83732945

00:23:04.495 --> 00:23:06.699 and families that frequently.

NOTE Confidence: 0.83732945

00:23:06.700 --> 00:23:08.608 Please join the limitations were taken

NOTE Confidence: 0.83732945

00:23:08.608 --> 00:23:11.389 care of by a very specific provider.

NOTE Confidence: 0.83732945

00:23:11.390 --> 00:23:12.838 Very specific. You know,

NOTE Confidence: 0.83732945

00:23:12.838 --> 00:23:15.781 one Doctor Who really did not talk to

NOTE Confidence: 0.83732945

00:23:15.781 --> 00:23:18.642 other doctors and there was a lot of

NOTE Confidence: 0.83732945

00:23:18.642 --> 00:23:20.602 disconnect about these mutations and

NOTE Confidence: 0.83732945

00:23:20.602 --> 00:23:23.188 frequently women did not get the care

NOTE Confidence: 0.83732945

00:23:23.188 --> 00:23:25.102 that they needed because you know,

NOTE Confidence: 0.83732945

00:23:25.110 --> 00:23:27.210 if somebody had a specific mutation

NOTE Confidence: 0.83732945

00:23:27.210 --> 00:23:29.799 that had to do with the breast,

NOTE Confidence: 0.83732945

00:23:29.800 --> 00:23:32.488 they would just be managed by the breast

NOTE Confidence: 0.83732945

00:23:32.488 --> 00:23:34.095 position without really understanding

NOTE Confidence: 0.83732945

00:23:34.095 --> 00:23:36.705 the correlations and breast and ovary.

NOTE Confidence: 0.83732945

00:23:36.710 --> 00:23:39.710 And making sure that the whole team of

NOTE Confidence: 0.83732945

00:23:39.710 --> 00:23:42.666 providers is involved in the optimal care.

NOTE Confidence: 0.83732945

00:23:42.670 --> 00:23:44.694 And that is what we're trying to correct,

NOTE Confidence: 0.83732945

00:23:44.700 --> 00:23:47.476 and that is what we're trying to improve.

00:23:47.480 --> 00:23:50.416 So we know now that approximately 10% of

00:23:50.416 --> 00:23:52.246 cancers are something called hereditary,

00:23:52.250 --> 00:23:54.446 which means that there's a mutation

00:23:54.446 --> 00:23:55.544 in the gene.

00:23:55.550 --> 00:23:58.119 However, we know so much more now,

00:23:58.120 --> 00:24:01.056 and we now believe that much bigger number,

00:24:01.060 --> 00:24:03.994 closer to 30 if not 50% actually carry

00:24:03.994 --> 00:24:05.829 some sort of genetic predisposition,

00:24:05.830 --> 00:24:09.124 and there's some sort of a gene that could

00:24:09.124 --> 00:24:12.094 be responsible for different cancers as

00:24:12.094 --> 00:24:15.838 well As for other cancers in the family.

00:24:15.840 --> 00:24:18.616 So what are the risk factors you know

00:24:18.616 --> 00:24:20.746 so frequently in in in the office?

00:24:20.750 --> 00:24:23.166 I talked to to my women and my

00:24:23.166 --> 00:24:25.320 patients and we always talk about,

00:24:25.320 --> 00:24:25.974 you know,

NOTE Confidence: 0.83732945

00:24:25.974 --> 00:24:28.263 quit the cancers that they have be

NOTE Confidence: 0.83732945

00:24:28.263 --> 00:24:30.863 due to mutation and how do we know

NOTE Confidence: 0.83732945

00:24:30.863 --> 00:24:33.169 those likely to be due to mutation?

NOTE Confidence: 0.83732945

00:24:33.170 --> 00:24:34.895 And it's super super important

NOTE Confidence: 0.83732945

00:24:34.895 --> 00:24:37.283 to know because we want to make

NOTE Confidence: 0.83732945

00:24:37.283 --> 00:24:39.059 sure that if that's the case,

NOTE Confidence: 0.83732945

00:24:39.060 --> 00:24:41.573 we identify them so that further cancers

NOTE Confidence: 0.83732945

00:24:41.573 --> 00:24:44.287 can be prevented in her and in her family.

NOTE Confidence: 0.83732945

00:24:44.290 --> 00:24:46.432 So the risk factors for having some

NOTE Confidence: 0.83732945

00:24:46.432 --> 00:24:48.490 sort of genetic hereditary cancer.

NOTE Confidence: 0.83732945

00:24:48.490 --> 00:24:50.428 It is early age of onset,

NOTE Confidence: 0.83732945

00:24:50.430 --> 00:24:53.244 so when cancers happen younger in life.

NOTE Confidence: 0.83732945

00:24:53.250 --> 00:24:54.682 Multiple affected family members

NOTE Confidence: 0.83732945

00:24:54.682 --> 00:24:57.206 and you saw the pedigree I showed

NOTE Confidence: 0.83732945

00:24:57.206 --> 00:24:59.078 you in the beginning of that.

NOTE Confidence: 0.83732945

00:24:59.080 --> 00:25:01.453 Some like we always talk about related

NOTE Confidence: 0.83732945

00:25:01.453 --> 00:25:03.880 cancers in the family and it's very,

NOTE Confidence: 0.83732945

00:25:03.880 --> 00:25:05.715 very important to remember that

NOTE Confidence: 0.83732945

00:25:05.715 --> 00:25:07.917 the related cancers in the family

NOTE Confidence: 0.83732945

00:25:07.917 --> 00:25:09.705 is not just what we think.

NOTE Confidence: 0.83732945

00:25:09.710 --> 00:25:12.454 You know, for somebody who has breast cancer,

NOTE Confidence: 0.83732945

00:25:12.460 --> 00:25:14.854 we're not just talking about breast cancer,

NOTE Confidence: 0.83732945

00:25:14.860 --> 00:25:17.282 we're talking about breast cancer having a

NOTE Confidence: 0.83732945

00:25:17.282 --> 00:25:19.318 very close relationship to ovarian cancer.

NOTE Confidence: 0.83732945

00:25:19.320 --> 00:25:21.980 And now we also think this certain

NOTE Confidence: 0.83732945

00:25:21.980 --> 00:25:23.690 subtypes of uterine cancer.

NOTE Confidence: 0.83732945

00:25:23.690 --> 00:25:26.364 That are also part part of that

NOTE Confidence: 0.83732945

00:25:26.364 --> 00:25:27.510 family of cancers.

NOTE Confidence: 0.83732945

00:25:27.510 --> 00:25:29.038 This includes pancreatic cancer.

NOTE Confidence: 0.83732945

00:25:29.038 --> 00:25:31.330 This includes prostate cancer in men.

NOTE Confidence: 0.83732945

00:25:31.330 --> 00:25:32.040 You know,

NOTE Confidence: 0.83732945

00:25:32.040 --> 00:25:34.525 this is very important and we talk

NOTE Confidence: 0.83732945

00:25:34.525 --> 00:25:36.298 about these female jeans.

NOTE Confidence: 0.83732945

00:25:36.300 --> 00:25:37.030 You know,

NOTE Confidence: 0.83732945

00:25:37.030 --> 00:25:40.500 the Braca genes that this is not only women,

NOTE Confidence: 0.83732945

00:25:40.500 --> 00:25:41.694 but this effects.

NOTE Confidence: 0.83732945

00:25:41.694 --> 00:25:44.082 There is certainly males that this

NOTE Confidence: 0.83732945

00:25:44.082 --> 00:25:45.079 effects as well.

NOTE Confidence: 0.83732945

00:25:45.080 --> 00:25:48.926 This includes melanomas of the skin.

NOTE Confidence: 0.83732945

00:25:48.930 --> 00:25:49.632 Multiple primary,

NOTE Confidence: 0.83732945

00:25:49.632 --> 00:25:52.440 so a patient woman or man who has

NOTE Confidence: 0.8384719

00:25:52.510 --> 00:25:55.646 more than one cancer male breast cancer is

NOTE Confidence: 0.8384719

00:25:55.646 --> 00:25:58.427 something that we always very careful with.

NOTE Confidence: 0.8384719

00:25:58.430 --> 00:26:00.710 Male breast cancer is very frequently

NOTE Confidence: 0.8384719

00:26:00.710 --> 00:26:02.230 associated with genetic mutation.

NOTE Confidence: 0.8384719

00:26:02.230 --> 00:26:05.270 In the old days, like five years back,

00:26:05.270 --> 00:26:08.690 we used to talk a lot about Jewish ancestry.

00:26:08.690 --> 00:26:10.590 Dash cannot see Jewish women,

00:26:10.590 --> 00:26:13.540 as I'm sure a lot of us know carry higher

00:26:13.620 --> 00:26:16.290 prevalence of this genetic mutations.

00:26:16.290 --> 00:26:19.251 However, recently we have found out the

00:26:19.251 --> 00:26:22.010 Jewish connected women are not the only

00:26:22.010 --> 00:26:24.140 ones who have this high prevalence.

00:26:24.140 --> 00:26:25.468 That there's certain population

00:26:25.468 --> 00:26:26.796 of women from Italy.

00:26:26.800 --> 00:26:28.828 There are certain population of Mexican

00:26:28.828 --> 00:26:30.544 women that carries similarly high

00:26:30.544 --> 00:26:32.743 prevalence of these genes, so you know,

00:26:32.743 --> 00:26:35.760 whereas years back we used to ask the woman,

00:26:35.760 --> 00:26:37.788 you know, are you Jewish Knesset

00:26:37.788 --> 00:26:39.739 descend and if she said no,

00:26:39.740 --> 00:26:41.400 we wouldn't worry as much.

NOTE Confidence: 0.8384719

00:26:41.400 --> 00:26:43.060 That's no longer the case.

NOTE Confidence: 0.8384719

00:26:43.060 --> 00:26:44.056 We know, again,

NOTE Confidence: 0.8384719

00:26:44.056 --> 00:26:45.716 much more about different mutations,

NOTE Confidence: 0.8384719

00:26:45.720 --> 00:26:47.964 different ethnicities and also we are

NOTE Confidence: 0.8384719

00:26:47.964 --> 00:26:50.656 much smarter Now we know many more genes

NOTE Confidence: 0.8384719

00:26:50.656 --> 00:26:53.439 now than we used to do years back and

NOTE Confidence: 0.8384719

00:26:53.439 --> 00:26:55.826 pathology as to exactly what kind of.

NOTE Confidence: 0.8384719

00:26:55.830 --> 00:26:57.291 Cells there are.

NOTE Confidence: 0.8384719

00:26:57.291 --> 00:27:00.700 And the jeans that we worry about,

NOTE Confidence: 0.8384719

00:27:00.700 --> 00:27:03.298 you know a multiple so Bracco

NOTE Confidence: 0.8384719

00:27:03.298 --> 00:27:04.597 wanna bracket too?

NOTE Confidence: 0.8384719

00:27:04.600 --> 00:27:07.656 I'm sure many of you have heard of

NOTE Confidence: 0.8384719

00:27:07.656 --> 00:27:10.679 so Bracco Roca one stands for all

NOTE Confidence: 0.8384719

00:27:10.679 --> 00:27:13.892 breast cancer one clone in 90 four

NOTE Confidence: 0.8384719

00:27:13.892 --> 00:27:16.754 and increases risk of breast cancer,

00:27:16.760 --> 00:27:20.708 ovarian cancer and prostate cancer in males.

00:27:20.710 --> 00:27:23.248 Rock a tool for breast cancer.

00:27:23.250 --> 00:27:24.098 Two clones.

00:27:24.098 --> 00:27:27.066 Soon after that the 95 and carries

00:27:27.066 --> 00:27:29.607 lower risk but of more cancers.

00:27:29.610 --> 00:27:31.310 Breast cancer, brain cancer,

00:27:31.310 --> 00:27:32.160 prostate cancer,

00:27:32.160 --> 00:27:33.222 pancreatic cancer,

00:27:33.222 --> 00:27:36.939 and this is the cancer that's more

00:27:36.939 --> 00:27:39.549 associated with male breast cancer.

00:27:39.550 --> 00:27:41.950 This is the life cancer risks.

00:27:41.950 --> 00:27:43.306 So in the population.

00:27:43.306 --> 00:27:46.749 So if you don't have any genetic mutations,

00:27:46.750 --> 00:27:49.950 women have approximately 11 to 13% chance of

00:27:49.950 --> 00:27:52.350 getting breast cancer during their lifetime.

00:27:52.350 --> 00:27:53.758 But if you had,

NOTE Confidence: 0.8384719

00:27:53.758 --> 00:27:56.750 but if a woman has a bracket,

NOTE Confidence: 0.8384719

00:27:56.750 --> 00:27:58.374 one bracket, two mutation,

NOTE Confidence: 0.8384719

00:27:58.374 --> 00:28:00.404 that that risk is significantly

NOTE Confidence: 0.8384719

00:28:00.404 --> 00:28:02.750 higher simile for the ovarian cancer,

NOTE Confidence: 0.8384719

00:28:02.750 --> 00:28:04.750 the risk is approximately 1.4%,

NOTE Confidence: 0.8384719

00:28:04.750 --> 00:28:07.963 but could be as high as 60% for

NOTE Confidence: 0.8384719

00:28:07.963 --> 00:28:10.028 bracket one and his highest.

NOTE Confidence: 0.8384719

00:28:10.030 --> 00:28:13.236 40% for bracket two and their risk

NOTE Confidence: 0.8384719

00:28:13.236 --> 00:28:15.573 similarly is increased with second

NOTE Confidence: 0.8384719

00:28:15.573 --> 00:28:17.763 breast cancer primary again up

NOTE Confidence: 0.8384719

00:28:17.763 --> 00:28:20.448 to 65% in bracket one patients.

NOTE Confidence: 0.659359146

00:28:23.640 --> 00:28:26.660 Um? So in prostate cancer,

NOTE Confidence: 0.659359146

00:28:26.660 --> 00:28:29.030 again is quite common in male,

NOTE Confidence: 0.659359146

00:28:29.030 --> 00:28:31.310 16% of general population has a

NOTE Confidence: 0.659359146

00:28:31.310 --> 00:28:33.380 risk to develop prostate cancer,

NOTE Confidence: 0.659359146

00:28:33.380 --> 00:28:36.540 and the risk is as high as 30%.

NOTE Confidence: 0.659359146

00:28:36.540 --> 00:28:39.207 So doubled in Brock Obama bracket two

NOTE Confidence: 0.659359146

00:28:39.207 --> 00:28:42.070 males as well as male breast cancer,

NOTE Confidence: 0.659359146

00:28:42.070 --> 00:28:44.828 which is super super uncommon in general.

NOTE Confidence: 0.659359146

00:28:44.830 --> 00:28:48.026 Population could be as high as 10% with

NOTE Confidence: 0.659359146

00:28:48.026 --> 00:28:51.434 bracket 2 and you can see similar increase

NOTE Confidence: 0.659359146

00:28:51.434 --> 00:28:54.319 with rocketu in pancreatic cancer.

NOTE Confidence: 0.659359146

00:28:54.320 --> 00:28:57.400 So what can we do?

NOTE Confidence: 0.659359146

00:28:57.400 --> 00:28:59.500 And this is we mentioned this

NOTE Confidence: 0.659359146

00:28:59.500 --> 00:29:01.620 in the beginning of the talk.

NOTE Confidence: 0.659359146

00:29:01.620 --> 00:29:03.738 So when we believe that patient,

NOTE Confidence: 0.659359146

00:29:03.740 --> 00:29:06.692 a woman or male is a higher risk for

NOTE Confidence: 0.659359146

00:29:06.692 --> 00:29:09.014 specific cancer, what can be done?

NOTE Confidence: 0.659359146

00:29:09.014 --> 00:29:11.116 You know, I very frequently have

NOTE Confidence: 0.659359146

00:29:11.116 --> 00:29:12.861 this conversation in my office

NOTE Confidence: 0.659359146

00:29:12.861 --> 00:29:15.015 with women when they are reluctant

NOTE Confidence: 0.659359146

00:29:15.015 --> 00:29:16.760 to get genetic testing them,

NOTE Confidence: 0.659359146

00:29:16.760 --> 00:29:19.576 because very frequently there is fear is to.

NOTE Confidence: 0.659359146

00:29:19.580 --> 00:29:21.925 What would I do with this information

NOTE Confidence: 0.659359146

00:29:21.925 --> 00:29:24.860 if I know I have a genetic mutation?

NOTE Confidence: 0.659359146

00:29:24.860 --> 00:29:26.364 What does that do?

NOTE Confidence: 0.659359146

00:29:26.364 --> 00:29:27.868 Does it add anything?

NOTE Confidence: 0.659359146

00:29:27.870 --> 00:29:31.270 You know, does it help me at all?

NOTE Confidence: 0.659359146

00:29:31.270 --> 00:29:34.670 And it certainly does, you know, I never.

NOTE Confidence: 0.659359146

00:29:34.670 --> 00:29:37.220 I never advocate free checking genes,

NOTE Confidence: 0.659359146

00:29:37.220 --> 00:29:39.804 for which we have no no solution but

NOTE Confidence: 0.659359146

00:29:39.804 --> 00:29:43.179 for a great number of this variance

NOTE Confidence: 0.659359146

00:29:43.179 --> 00:29:45.299 in generic deleterious mutation,

NOTE Confidence: 0.659359146

00:29:45.300 --> 00:29:46.148 there's unquestionably

NOTE Confidence: 0.659359146

00:29:46.148 --> 00:29:48.268 prevention that can be done.

NOTE Confidence: 0.659359146

00:29:48.270 --> 00:29:50.400 You know, knowledge is power,

NOTE Confidence: 0.659359146

00:29:50.400 --> 00:29:53.676 so the way that we usually look at this

NOTE Confidence: 0.659359146

00:29:53.676 --> 00:29:56.768 kind of management is always similar,

NOTE Confidence: 0.659359146

00:29:56.770 --> 00:29:59.530 no matter what kind of cancer.

NOTE Confidence: 0.659359146

00:29:59.530 --> 00:30:00.350 We'll talk.

NOTE Confidence: 0.659359146

00:30:00.350 --> 00:30:02.400 About so the biggest one,

NOTE Confidence: 0.659359146

00:30:02.400 --> 00:30:04.520 and probably the easiest one,

NOTE Confidence: 0.659359146

00:30:04.520 --> 00:30:06.220 is the lifestyle modifications.

NOTE Confidence: 0.659359146

00:30:06.220 --> 00:30:07.920 Now the easiest one,

NOTE Confidence: 0.659359146

00:30:07.920 --> 00:30:10.470 as we'll talk a little bit,

NOTE Confidence: 0.659359146

00:30:10.470 --> 00:30:12.790 but but the cheapest usually

NOTE Confidence: 0.659359146

00:30:12.790 --> 00:30:14.646 chemoprevention surveillance and then

NOTE Confidence: 0.659359146

00:30:14.646 --> 00:30:17.524 the most aggressive one which is surgery

NOTE Confidence: 0.659359146

00:30:17.524 --> 00:30:19.819 which is only reserved for truly,

NOTE Confidence: 0.659359146

00:30:19.820 --> 00:30:21.968 truly high risk population.

NOTE Confidence: 0.659359146

00:30:21.968 --> 00:30:24.653 So for the breast cancer,

NOTE Confidence: 0.659359146

00:30:24.660 --> 00:30:26.835 for those women who are

NOTE Confidence: 0.659359146

00:30:26.835 --> 00:30:28.140 significantly higher risk,

NOTE Confidence: 0.659359146

00:30:28.140 --> 00:30:31.178 the most definitive but the most aggressive,

NOTE Confidence: 0.659359146

00:30:31.180 --> 00:30:32.888 of course, is mastectomy,

NOTE Confidence: 0.659359146

00:30:32.888 --> 00:30:35.023 and this one is reserved

NOTE Confidence: 0.659359146

00:30:35.023 --> 00:30:37.270 for women at highest risk,

NOTE Confidence: 0.659359146

00:30:37.270 --> 00:30:39.445 and it's very complex procedure

NOTE Confidence: 0.659359146

00:30:39.445 --> 00:30:41.185 reduces the risk substantially,

NOTE Confidence: 0.659359146

00:30:41.190 --> 00:30:43.910 but the psychosocial implications

NOTE Confidence: 0.659359146

00:30:43.910 --> 00:30:46.630 and that will study.

NOTE Confidence: 0.659359146

00:30:46.630 --> 00:30:49.510 We know that even for women

NOTE Confidence: 0.659359146

00:30:49.510 --> 00:30:50.950 with BRCA mutations,

NOTE Confidence: 0.659359146

00:30:50.950 --> 00:30:52.998 when they undergo mastectomy,

NOTE Confidence: 0.659359146

00:30:52.998 --> 00:30:55.558 zero percent of women actually

NOTE Confidence: 0.659359146

00:30:55.558 --> 00:30:57.841 ended up having breast cancer

NOTE Confidence: 0.659359146

00:30:57.841 --> 00:31:03.290 compared to 7% of those who did not.

NOTE Confidence: 0.659359146

00:31:03.290 --> 00:31:03.685 Surveillance,

NOTE Confidence: 0.659359146

00:31:03.685 --> 00:31:06.055 which is just means closer watching

NOTE Confidence: 0.659359146

00:31:06.055 --> 00:31:08.313 is consists of clinical breast exams

NOTE Confidence: 0.659359146

00:31:08.313 --> 00:31:11.066 and you know right now there's a lot

NOTE Confidence: 0.659359146

00:31:11.066 --> 00:31:13.178 of debate in the literature where

NOTE Confidence: 0.659359146

00:31:13.178 --> 00:31:15.700 breast exams should be done by providers,

NOTE Confidence: 0.659359146

00:31:15.700 --> 00:31:17.525 so not for this population.

NOTE Confidence: 0.659359146

00:31:17.530 --> 00:31:19.350 We continue to encourage it.

NOTE Confidence: 0.659359146

00:31:19.350 --> 00:31:21.540 Self breast exams again very important,

NOTE Confidence: 0.659359146

00:31:21.540 --> 00:31:23.365 especially for women to know

NOTE Confidence: 0.659359146

00:31:23.365 --> 00:31:25.190 where their breasts feel like,

NOTE Confidence: 0.659359146

00:31:25.190 --> 00:31:27.464 so that if anything feels abnormal

NOTE Confidence: 0.659359146

00:31:27.464 --> 00:31:30.526 they will be aware of it or offer it

NOTE Confidence: 0.659359146

00:31:30.526 --> 00:31:32.860 breast MRI's as well as mammograms.

NOTE Confidence: 0.659359146

00:31:32.860 --> 00:31:35.146 And that starts at age 25.

NOTE Confidence: 0.659359146

00:31:35.150 --> 00:31:37.684 For women who are truly at high

NOTE Confidence: 0.659359146

00:31:37.684 --> 00:31:40.240 risk because of genetic mutations.

NOTE Confidence: 0.659359146

00:31:40.240 --> 00:31:41.464 MRI's are very debatable.

NOTE Confidence: 0.659359146

00:31:41.464 --> 00:31:44.642 For those of you who get him, you know it's.

NOTE Confidence: 0.659359146

00:31:44.642 --> 00:31:46.706 It's always a battle with insurance

NOTE Confidence: 0.659359146

00:31:46.706 --> 00:31:48.200 companies to try to prove it.

NOTE Confidence: 0.659359146

00:31:48.200 --> 00:31:50.640 This is not meant to replace the mammogram.

NOTE Confidence: 0.848147

00:31:50.640 --> 00:31:52.228 Mammogram looks at things

NOTE Confidence: 0.848147

00:31:52.228 --> 00:31:54.610 differently and there's a lot of

NOTE Confidence: 0.848147

00:31:54.687 --> 00:31:56.949 benefit to the mammogram as well.

NOTE Confidence: 0.848147

00:31:56.950 --> 00:31:58.708 It's not proven to impact survival,

NOTE Confidence: 0.848147

00:31:58.710 --> 00:32:00.558 and that's why it's so hard to

NOTE Confidence: 0.848147

00:32:00.558 --> 00:32:01.950 prove my insurance companies,

NOTE Confidence: 0.848147

00:32:01.950 --> 00:32:04.116 but nevertheless it adds to the

NOTE Confidence: 0.848147

00:32:04.116 --> 00:32:06.055 full picture and we recommend

NOTE Confidence: 0.848147

00:32:06.055 --> 00:32:08.175 getting it for this woman.

NOTE Confidence: 0.848147

00:32:08.180 --> 00:32:11.190 Chemoprevention is a little bit more complex.

NOTE Confidence: 0.848147

00:32:11.190 --> 00:32:13.605 Again, this is for women at higher

NOTE Confidence: 0.848147

00:32:13.605 --> 00:32:15.759 risk and the medicines that

NOTE Confidence: 0.848147

00:32:15.759 --> 00:32:18.364 are recommended as these risk

NOTE Confidence: 0.848147

00:32:18.364 --> 00:32:20.406 reduction agents tamoxifen are

NOTE Confidence: 0.848147

00:32:20.406 --> 00:32:22.794 almost in an investor and there's,

NOTE Confidence: 0.848147

00:32:22.800 --> 00:32:25.380 you know, there's no free lunch.

NOTE Confidence: 0.848147

00:32:25.380 --> 00:32:28.390 So there's some side effects to them.

NOTE Confidence: 0.848147

00:32:28.390 --> 00:32:31.400 So this similarly is reserved for women

NOTE Confidence: 0.848147

00:32:31.400 --> 00:32:34.451 at significant risk for women who are

NOTE Confidence: 0.848147

00:32:34.451 --> 00:32:36.983 significant risk who take this medicine,

NOTE Confidence: 0.848147

00:32:36.990 --> 00:32:39.618 they decrease their risk by good.

NOTE Confidence: 0.848147

00:32:39.620 --> 00:32:42.608 50% so the benefit is substantial.

NOTE Confidence: 0.8473329

00:32:45.300 --> 00:32:47.088 Ask you for a little bit.

NOTE Confidence: 0.8473329

00:32:47.090 --> 00:32:48.872 This is just how these medicines

NOTE Confidence: 0.8473329

00:32:48.872 --> 00:32:50.580 work and again, some of them,

NOTE Confidence: 0.8473329

00:32:50.580 --> 00:32:51.930 all of them decrease the

NOTE Confidence: 0.8473329

00:32:51.930 --> 00:32:53.350 risk of breast cancer,

NOTE Confidence: 0.8473329

00:32:53.350 --> 00:32:56.023 but some of them are good for the bones.

NOTE Confidence: 0.8473329

00:32:56.030 --> 00:32:58.703 Some of them are not good for the bones.

NOTE Confidence: 0.8473329

00:32:58.710 --> 00:33:01.086 Some of them are good for the uterus,

NOTE Confidence: 0.8473329

00:33:01.090 --> 00:33:01.990 others are not.

NOTE Confidence: 0.8621618

00:33:04.560 --> 00:33:07.760 And this is to show that in all

NOTE Confidence: 0.8621618

00:33:07.760 --> 00:33:10.633 these women in women who have

NOTE Confidence: 0.8621618

00:33:10.633 --> 00:33:13.591 mutations and who have higher risk,

NOTE Confidence: 0.8621618

00:33:13.600 --> 00:33:15.550 tamoxifen significantly decrease

NOTE Confidence: 0.8621618

00:33:15.550 --> 00:33:18.800 the risk of breast cancer.

NOTE Confidence: 0.8621618

00:33:18.800 --> 00:33:22.153 As I mentioned, the free lunch side

NOTE Confidence: 0.8621618

00:33:22.153 --> 00:33:25.048 effects of tamoxifen are hot flashes,

NOTE Confidence: 0.8621618

00:33:25.050 --> 00:33:26.445 some leg cramps.

NOTE Confidence: 0.8621618

00:33:26.445 --> 00:33:30.340 There's a very small risk of blood clots.

NOTE Confidence: 0.8621618

00:33:30.340 --> 00:33:33.226 Very small risk of individual cancer,

NOTE Confidence: 0.8621618

00:33:33.230 --> 00:33:34.190 and cataracts.

NOTE Confidence: 0.85178745

00:33:36.330 --> 00:33:38.490 The the easiest as I mentioned.

NOTE Confidence: 0.85178745

00:33:38.490 --> 00:33:39.930 Well not the easiest,

NOTE Confidence: 0.85178745

00:33:39.930 --> 00:33:41.730 but the most straightforward one,

NOTE Confidence: 0.85178745

00:33:41.730 --> 00:33:43.530 of course, is lifestyle modifications,

NOTE Confidence: 0.85178745

00:33:43.530 --> 00:33:46.410 and we do a lot of those conversations.

NOTE Confidence: 0.85178745

00:33:46.410 --> 00:33:48.210 The biggest one is alcohol.

NOTE Confidence: 0.85178745

00:33:48.210 --> 00:33:50.541 I'm sure you guys have seen the

NOTE Confidence: 0.85178745

00:33:50.541 --> 00:33:52.377 literature that there is definitely

NOTE Confidence: 0.85178745

00:33:52.377 --> 00:33:54.687 correlation of of high alcohol use.

NOTE Confidence: 0.85178745

00:33:54.690 --> 00:33:56.490 Higher alcohol use to increase

NOTE Confidence: 0.85178745

00:33:56.490 --> 00:33:57.930 risk of breast cancer.

NOTE Confidence: 0.85178745

00:33:57.930 --> 00:34:00.261 Women who drink one to two drinks

NOTE Confidence: 0.85178745

00:34:00.261 --> 00:34:02.933 a day is associated with 30 to

NOTE Confidence: 0.85178745

54

00:34:02.933 --> 00:34:05.254 50% increase in breast cancer.

NOTE Confidence: 0.85178745

00:34:05.254 --> 00:34:07.659 So usually the recommendation is

NOTE Confidence: 0.85178745

00:34:07.659 --> 00:34:10.624 to have less than one drink a day,

NOTE Confidence: 0.85178745

00:34:10.630 --> 00:34:11.851 so it's manageable.

NOTE Confidence: 0.85178745

00:34:11.851 --> 00:34:15.570 So less than 7 drinks a week and it

NOTE Confidence: 0.85178745

00:34:15.570 --> 00:34:19.120 actually doesn't matter if you do all 7 one.

NOTE Confidence: 0.85178745

00:34:19.120 --> 00:34:21.934 So if you do once every day,

NOTE Confidence: 0.85178745

00:34:21.940 --> 00:34:24.364 the total should be less than

NOTE Confidence: 0.85178745

00:34:24.364 --> 00:34:25.980 that and then wait.

NOTE Confidence: 0.85178745

00:34:25.980 --> 00:34:27.890 There's a very specific correlation

NOTE Confidence: 0.85178745

00:34:27.890 --> 00:34:30.830 of weight to risk of breast cancer.

NOTE Confidence: 0.85178745

00:34:30.830 --> 00:34:32.610 So especially after menopause,

NOTE Confidence: 0.85178745

00:34:32.610 --> 00:34:36.010 women with a BMI of more than 33.

NOTE Confidence: 0.85178745

00:34:36.010 --> 00:34:38.656 Had 27% increase risk versus women

NOTE Confidence: 0.85178745

00:34:38.656 --> 00:34:42.310 would be in my of 21 or less and

NOTE Confidence: 0.85178745

00:34:42.310 --> 00:34:44.668 we know from the North Nurses

00:34:44.668 --> 00:34:47.944 Health Study is study from which we

00:34:47.944 --> 00:34:50.568 learned a lot about these cancers.

00:34:50.568 --> 00:34:53.100 Then 10 kilogram weight gain since

00:34:53.173 --> 00:34:56.174 menopause had almost 20% higher risk of

00:34:56.174 --> 00:34:58.742 breast cancer compared to waive maintenance.

00:34:58.750 --> 00:35:00.890 So as lifestyle modifications go,

00:35:00.890 --> 00:35:03.660 alcohol and then achieving and

00:35:03.660 --> 00:35:06.430 maintaining a healthy weight of

00:35:06.526 --> 00:35:09.206 the two most important aspect.

00:35:09.210 --> 00:35:13.080 I won't spend too long.

00:35:13.080 --> 00:35:15.264 But there's of course pluses and

00:35:15.264 --> 00:35:17.240 minuses of hormone replacement therapy.

00:35:17.240 --> 00:35:18.347 As you know,

00:35:18.347 --> 00:35:20.561 we used a hormone replacement therapy

00:35:20.561 --> 00:35:23.536 used to be something that women used to

00:35:23.536 --> 00:35:26.310 get routinely until the study was published.

NOTE Confidence: 0.85178745

00:35:26.310 --> 00:35:27.886 The Women's Health Initiative,

NOTE Confidence: 0.85178745

00:35:27.886 --> 00:35:29.856 the nurses study that showed

NOTE Confidence: 0.85178745

00:35:29.856 --> 00:35:31.976 that there was a substantial 26%

NOTE Confidence: 0.85178745

00:35:31.980 --> 00:35:33.420 increase in breast cancer,

NOTE Confidence: 0.85178745

00:35:33.420 --> 00:35:36.140 and that's when all the hormones stopped,

NOTE Confidence: 0.85178745

00:35:36.140 --> 00:35:38.025 even though we don't think

NOTE Confidence: 0.85178745

00:35:38.025 --> 00:35:39.533 that's really the case.

NOTE Confidence: 0.85178745

00:35:39.540 --> 00:35:41.505 You know some subsequent studies

NOTE Confidence: 0.85178745

00:35:41.505 --> 00:35:43.470 that were done show that.

NOTE Confidence: 0.85178745

00:35:43.470 --> 00:35:45.520 When used with estrogen alone,

NOTE Confidence: 0.85178745

00:35:45.520 --> 00:35:47.560 there really was no increase

NOTE Confidence: 0.85178745

00:35:47.560 --> 00:35:48.784 in breast cancer,

NOTE Confidence: 0.85178745

00:35:48.790 --> 00:35:51.359 so nowadays we truly believe that this

NOTE Confidence: 0.85178745

00:35:51.359 --> 00:35:54.178 is a shared kind of very personalized

NOTE Confidence: 0.85178745

00:35:54.178 --> 00:35:57.380 decision between a woman and a provider.

NOTE Confidence: 0.85178745

00:35:57.380 --> 00:35:59.008 Understanding risks and benefits.

NOTE Confidence: 0.83015347

00:36:01.330 --> 00:36:03.724 And after the women will be RC

NOTE Confidence: 0.83015347

00:36:03.724 --> 00:36:05.290 mutation undergo definitive surgery.

NOTE Confidence: 0.83015347

00:36:05.290 --> 00:36:07.522 So if the women and we'll

NOTE Confidence: 0.83015347

00:36:07.522 --> 00:36:09.610 talk about that in a bit.

NOTE Confidence: 0.83015347

00:36:09.610 --> 00:36:12.346 If the women, if they are always in

NOTE Confidence: 0.83015347

00:36:12.346 --> 00:36:15.009 tubes are removed at a younger age,

NOTE Confidence: 0.83015347

00:36:15.010 --> 00:36:17.110 there's a lot of literature that supports

NOTE Confidence: 0.83015347

00:36:17.110 --> 00:36:19.689 the use of hormone replacement therapy.

NOTE Confidence: 0.83015347

00:36:19.690 --> 00:36:22.238 In this women it is completely safe

NOTE Confidence: 0.83015347

00:36:22.238 --> 00:36:25.075 and it still decreases the risk of

NOTE Confidence: 0.83015347

00:36:25.075 --> 00:36:27.577 breast cancer by his highest 50%.

NOTE Confidence: 0.83015347

00:36:27.580 --> 00:36:30.590 And that's all been very well studied.

NOTE Confidence: 0.83015347

00:36:30.590 --> 00:36:33.348 I'm going to jump briefly for the

NOTE Confidence: 0.83015347

00:36:33.348 --> 00:36:36.602 next few minutes to now the risk

NOTE Confidence: 0.83015347

00:36:36.602 --> 00:36:39.087 management ovarian cancer Doctor Wong

00:36:39.087 --> 00:36:42.064 mentioned this already, but you know,

00:36:42.064 --> 00:36:44.354 we do very similar approach,

00:36:44.360 --> 00:36:44.820 surveillance,

00:36:44.820 --> 00:36:46.660 chemoprevention or prophylactic surgery,

00:36:46.660 --> 00:36:50.968 which again is the most aggressive.

00:36:50.970 --> 00:36:54.300 Ovarian cancer remains unfortunately deadly.

00:36:54.300 --> 00:36:57.620 22,000 cases year, 15,000 deaths.

00:36:57.620 --> 00:36:58.285 Unfortunately,

00:36:58.285 --> 00:37:02.275 in comparison to the breast cancer,

00:37:02.280 --> 00:37:07.150 which is the most common?

00:37:07.150 --> 00:37:07.860 But much,

00:37:07.860 --> 00:37:10.345 much more curable and the trouble with

00:37:10.345 --> 00:37:13.245 that is that as as again many of you know,

00:37:13.250 --> 00:37:14.850 there will be any cancer.

00:37:14.850 --> 00:37:16.776 Fortunately, it's the cancer that whispers,

NOTE Confidence: 0.83015347

00:37:16.780 --> 00:37:18.385 even though we actually don't

NOTE Confidence: 0.83015347

00:37:18.385 --> 00:37:19.990 think it's the case anymore.

NOTE Confidence: 0.83015347

00:37:19.990 --> 00:37:21.916 We now do not think there

NOTE Confidence: 0.83015347

00:37:21.916 --> 00:37:22.879 are varying cancers.

NOTE Confidence: 0.83015347

00:37:22.880 --> 00:37:23.528 With spring,

NOTE Confidence: 0.83015347

00:37:23.528 --> 00:37:25.796 we really just think that nobody is

NOTE Confidence: 0.83015347

00:37:25.796 --> 00:37:27.690 listening over the past couple years.

NOTE Confidence: 0.83015347

00:37:27.690 --> 00:37:29.671 There's been a lot of studies that

NOTE Confidence: 0.83015347

00:37:29.671 --> 00:37:31.663 showed that even though great majority

NOTE Confidence: 0.83015347

00:37:31.663 --> 00:37:33.468 of women with advanced cancer,

NOTE Confidence: 0.83015347

00:37:33.470 --> 00:37:35.717 stage three and stage four had symptoms,

NOTE Confidence: 0.83015347

00:37:35.720 --> 00:37:37.706 women with stage one and two.

NOTE Confidence: 0.83015347

00:37:37.710 --> 00:37:40.308 Great majority of them also had

NOTE Confidence: 0.83015347

00:37:40.308 --> 00:37:42.953 symptoms issues that the symptoms were

NOTE Confidence: 0.83015347

00:37:42.953 --> 00:37:45.872 so vague that they were perceived by

NOTE Confidence: 0.83015347

00:37:45.872 --> 00:37:48.552 the woman and also by her providers

NOTE Confidence: 0.83015347

00:37:48.552 --> 00:37:50.830 to be normal to be menopausal,

NOTE Confidence: 0.83015347

00:37:50.830 --> 00:37:52.060 to be hormonal,

NOTE Confidence: 0.83015347

00:37:52.060 --> 00:37:52.898 you know,

NOTE Confidence: 0.83015347

00:37:52.898 --> 00:37:55.831 to be just the normal thing that

NOTE Confidence: 0.83015347

00:37:55.831 --> 00:37:57.388 women in the goal,

NOTE Confidence: 0.83015347

00:37:57.390 --> 00:38:00.142 which is of course not the case so

NOTE Confidence: 0.83015347

00:38:00.142 --> 00:38:03.471 so much of what we do with these

NOTE Confidence: 0.83015347

00:38:03.471 --> 00:38:06.197 symptoms is educating women and and

NOTE Confidence: 0.83015347

00:38:06.197 --> 00:38:08.537 advocating and teaching them to.

NOTE Confidence: 0.83015347

00:38:08.540 --> 00:38:10.820 Listen to your body that as that the

NOTE Confidence: 0.83015347

00:38:10.820 --> 00:38:13.435 Wong said that if you have these symptoms,

NOTE Confidence: 0.83015347

00:38:13.440 --> 00:38:14.376 the bowel symptoms,

NOTE Confidence: 0.83015347

00:38:14.376 --> 00:38:15.936 the bladder symptoms then just

NOTE Confidence: 0.83015347

00:38:15.936 --> 00:38:17.795 not feeling great and having some

NOTE Confidence: 0.83015347

00:38:17.795 --> 00:38:19.275 some bloating and distention and

NOTE Confidence: 0.83015347

00:38:19.275 --> 00:38:21.090 your clothes are not feeling well.

NOTE Confidence: 0.83015347

00:38:21.090 --> 00:38:23.530 And of course we all have those symptoms.

NOTE Confidence: 0.83015347

00:38:23.530 --> 00:38:25.567 All of us feel that the difference

NOTE Confidence: 0.83015347

00:38:25.567 --> 00:38:27.780 between what we all feel and the

NOTE Confidence: 0.83015347

00:38:27.780 --> 00:38:29.700 symptoms that are actually abnormal is

NOTE Confidence: 0.83015347

00:38:29.762 --> 00:38:31.799 a women who ended up having cancer.

NOTE Confidence: 0.83015347

00:38:31.800 --> 00:38:33.715 Had these symptoms every single

NOTE Confidence: 0.83015347

00:38:33.715 --> 00:38:35.247 day for two weeks.

NOTE Confidence: 0.83015347

00:38:35.250 --> 00:38:37.146 So we do a lot of advocacy work

NOTE Confidence: 0.83015347

00:38:37.146 --> 00:38:39.360 and a lot of empowering of women

NOTE Confidence: 0.83015347

00:38:39.360 --> 00:38:41.030 to listen to your bodies.

NOTE Confidence: 0.83015347

00:38:41.030 --> 00:38:43.334 And when you feel that something is wrong,

NOTE Confidence: 0.83015347

00:38:43.340 --> 00:38:45.572 you you present to to the provider and

NOTE Confidence: 0.83015347

00:38:45.572 --> 00:38:47.680 you demand the care that you deserve.

NOTE Confidence: 0.83015347

00:38:47.680 --> 00:38:50.272 You know you don't take no for an answer.

NOTE Confidence: 0.83015347

00:38:50.280 --> 00:38:52.114 You don't let the provider tell you

NOTE Confidence: 0.83015347

00:38:52.114 --> 00:38:53.871 that you know these symptoms are

NOTE Confidence: 0.83015347

00:38:53.871 --> 00:38:55.701 normal and just it's menopause that

NOTE Confidence: 0.83015347

00:38:55.701 --> 00:38:57.505 if you continue having these symptoms

NOTE Confidence: 0.83015347

00:38:57.505 --> 00:39:00.760 that you need to be evaluated.

NOTE Confidence: 0.83015347

00:39:00.760 --> 00:39:02.920 I'm.

NOTE Confidence: 0.83015347

00:39:02.920 --> 00:39:04.576 And this is like I mentioned,

NOTE Confidence: 0.83015347

00:39:04.580 --> 00:39:06.484 those those are the symptoms that we

NOTE Confidence: 0.83015347

00:39:06.484 --> 00:39:08.750 met the woman feel, and that it's so,

NOTE Confidence: 0.83015347

00:39:08.750 --> 00:39:10.430 so important to be aware of

NOTE Confidence: 0.86379963

00:39:10.493 --> 00:39:10.680 it.

NOTE Confidence: 0.8243944

00:39:13.850 --> 00:39:16.088 The trouble with with varying cancer

NOTE Confidence: 0.8243944

00:39:16.088 --> 00:39:18.877 in the symptoms is that there's a lot

NOTE Confidence: 0.8243944

00:39:18.877 --> 00:39:21.260 that mimics a lot of other things.

NOTE Confidence: 0.8243944

00:39:21.260 --> 00:39:23.025 You know, it makes endometriosis

NOTE Confidence: 0.8243944

00:39:23.025 --> 00:39:24.790 the most common mimic it,

NOTE Confidence: 0.8243944

00:39:24.790 --> 00:39:26.202 mimics irritable bowel syndrome,

NOTE Confidence: 0.8243944

00:39:26.202 --> 00:39:27.261 inflammatory disease and

NOTE Confidence: 0.8243944

00:39:27.261 --> 00:39:27.967 interstitial cystitis,

NOTE Confidence: 0.8243944

00:39:27.970 --> 00:39:30.224 and that's why at times it's a

NOTE Confidence: 0.8243944

00:39:30.224 --> 00:39:32.209 little bit difficult to distinguish.

NOTE Confidence: 0.8243944

00:39:32.210 --> 00:39:34.337 But the most important thing, again,

NOTE Confidence: 0.8243944

00:39:34.337 --> 00:39:37.273 is just to know that this is something

NOTE Confidence: 0.8243944

00:39:37.273 --> 00:39:40.323 that's not that's not same for you as usual.

NOTE Confidence: 0.8243944

00:39:40.330 --> 00:39:42.436 So when women have these symptoms,

NOTE Confidence: 0.8243944

00:39:42.440 --> 00:39:44.960 it's very important to be seen.

NOTE Confidence: 0.8243944

00:39:44.960 --> 00:39:47.634 Many women with this kind of symptoms

NOTE Confidence: 0.8243944

00:39:47.634 --> 00:39:49.647 actually not seen by gynecologist

NOTE Confidence: 0.8243944

00:39:49.647 --> 00:39:52.405 they seen by GI personal Gu person,

NOTE Confidence: 0.8243944

00:39:52.410 --> 00:39:55.217 you know actually the most common doctors

NOTE Confidence: 0.8243944

00:39:55.217 --> 00:39:58.790 who see women at this stage are guessing

NOTE Confidence: 0.8243944

00:39:58.790 --> 00:40:01.085 TRA la just urologists chiropractor.

NOTE Confidence: 0.8243944

00:40:01.090 --> 00:40:03.496 And psychologists, that's what that was.

NOTE Confidence: 0.8243944

00:40:03.500 --> 00:40:04.300 Number 4.

NOTE Confidence: 0.8243944

00:40:04.300 --> 00:40:06.300 And then these women always.

NOTE Confidence: 0.8243944

00:40:06.300 --> 00:40:09.037 It's very important for them to have

NOTE Confidence: 0.8243944

00:40:09.037 --> 00:40:11.519 a sonogram and some blood work,

NOTE Confidence: 0.8243944

00:40:11.520 --> 00:40:13.926 and sometimes that CAT scan and

NOTE Confidence: 0.8243944

00:40:13.926 --> 00:40:15.530 then referral to gynecologist,

NOTE Confidence: 0.8243944

00:40:15.530 --> 00:40:18.830 which is very important.

NOTE Confidence: 0.8243944

00:40:18.830 --> 00:40:19.340 Um?

NOTE Confidence: 0.832056

00:40:21.610 --> 00:40:23.710 Sorry bout that you guys needed

NOTE Confidence: 0.832056

00:40:23.710 --> 00:40:26.762 beauty of of zoom so we don't do

NOTE Confidence: 0.832056

00:40:26.762 --> 00:40:28.334 screening for varying cancer.

NOTE Confidence: 0.832056

00:40:28.340 --> 00:40:29.744 It doesn't really work.

NOTE Confidence: 0.832056

00:40:29.744 --> 00:40:32.460 See what 25 is a tumor marker?

NOTE Confidence: 0.832056

00:40:32.460 --> 00:40:34.632 That's just not a great tumor

NOTE Confidence: 0.832056

00:40:34.632 --> 00:40:37.457 marker for this scene with 25 is a

NOTE Confidence: 0.832056

00:40:37.457 --> 00:40:39.413 very good to market and something

NOTE Confidence: 0.832056

00:40:39.490 --> 00:40:42.004 that we use very carefully very

NOTE Confidence: 0.832056

00:40:42.004 --> 00:40:44.054 closely for surveillance of cancer.

NOTE Confidence: 0.832056

00:40:44.054 --> 00:40:45.550 But we do not.

NOTE Confidence: 0.832056

00:40:45.550 --> 00:40:48.154 It does not work great by itself,

NOTE Confidence: 0.832056

00:40:48.160 --> 00:40:51.584 so we used it together with an ultrasound.

NOTE Confidence: 0.832056

00:40:51.590 --> 00:40:52.554 Before hand.

NOTE Confidence: 0.832056

00:40:52.554 --> 00:40:55.928 And this is just studies that show

NOTE Confidence: 0.832056

00:40:55.928 --> 00:40:58.962 that together with it with an

NOTE Confidence: 0.832056

00:40:58.962 --> 00:41:01.980 ultrasound for women at high risk.

NOTE Confidence: 0.832056

00:41:01.980 --> 00:41:02.706 Using imaging,

NOTE Confidence: 0.832056

00:41:02.706 --> 00:41:04.521 which is ultrasound together with

NOTE Confidence: 0.832056

00:41:04.521 --> 00:41:06.934 the blood test, is the best modality.

NOTE Confidence: 0.832056

00:41:06.934 --> 00:41:10.329 Best way to try to find this cancer early?

NOTE Confidence: 0.899208

00:41:13.130 --> 00:41:14.936 And then of course, the most.

NOTE Confidence: 0.80238247

00:41:17.100 --> 00:41:19.302 The most aggressive one which is

NOTE Confidence: 0.80238247

00:41:19.302 --> 00:41:21.260 surgery and surgery for prophylaxis

NOTE Confidence: 0.80238247

00:41:21.260 --> 00:41:23.780 for varying cancer is really only

NOTE Confidence: 0.80238247

00:41:23.780 --> 00:41:26.090 reserved for women at higher risk.

NOTE Confidence: 0.80238247

00:41:26.090 --> 00:41:28.436 So who are the women who?

NOTE Confidence: 0.80238247

00:41:28.440 --> 00:41:31.135 What are the factors that are associated

NOTE Confidence: 0.80238247

00:41:31.135 --> 00:41:33.798 with high risk of ovarian cancer and

NOTE Confidence: 0.80238247

00:41:33.798 --> 00:41:36.650 those are women who had early minarchy.

NOTE Confidence: 0.80238247

00:41:36.650 --> 00:41:38.610 Late menopause never had children,

NOTE Confidence: 0.80238247

00:41:38.610 --> 00:41:40.174 infertility and Dimitriou Sis,

NOTE Confidence: 0.80238247

00:41:40.174 --> 00:41:42.520 and then the most serious ones,

NOTE Confidence: 0.80238247

00:41:42.520 --> 00:41:45.095 which are the genetic factors

NOTE Confidence: 0.80238247

00:41:45.095 --> 00:41:48.310 bracket one bracket two and Lynch.

NOTE Confidence: 0.80238247

00:41:48.310 --> 00:41:49.690 There's also environmental factors.

NOTE Confidence: 0.80238247

00:41:49.690 --> 00:41:51.070 You guys all know.

NOTE Confidence: 0.80238247

00:41:51.070 --> 00:41:52.800 I'm sure about talc use.

NOTE Confidence: 0.80238247

00:41:52.800 --> 00:41:55.208 There's a lot of debate on that,

NOTE Confidence: 0.80238247

00:41:55.210 --> 00:41:56.590 but there's cigarette smoking

NOTE Confidence: 0.80238247

00:41:56.590 --> 00:41:57.970 as well as asbestos.

NOTE Confidence: 0.80238247

00:41:57.970 --> 00:41:59.700 That's considered risk as well.

NOTE Confidence: 0.7751556

00:42:02.000 --> 00:42:04.051 And the thinking for that we don't

NOTE Confidence: 0.7751556

00:42:04.051 --> 00:42:06.237 have time to talk about this now,

NOTE Confidence: 0.7751556

00:42:06.240 --> 00:42:07.452 but there's two different

NOTE Confidence: 0.7751556

00:42:07.452 --> 00:42:08.664 thoughts of ovarian cancer.

NOTE Confidence: 0.7751556

00:42:08.670 --> 00:42:10.734 One thought as I could want mentioned that

NOTE Confidence: 0.7751556

00:42:10.734 --> 00:42:12.932 some of these cancers actually arise in

NOTE Confidence: 0.7751556

00:42:12.932 --> 00:42:15.030 the fallopian tubes and ovarian cancers.

NOTE Confidence: 0.7751556

00:42:15.030 --> 00:42:17.144 Actually, not only in Kansas at all,

NOTE Confidence: 0.7751556

00:42:17.150 --> 00:42:18.710 their fallopian tube cancers that

NOTE Confidence: 0.7751556

00:42:18.710 --> 00:42:20.801 have spread to the ovaries and the

NOTE Confidence: 0.7751556

68

00:42:20.801 --> 00:42:22.474 other thing is that every time a

NOTE Confidence: 0.7751556

00:42:22.474 --> 00:42:24.175 woman ovulates that there's some

NOTE Confidence: 0.7751556

00:42:24.175 --> 00:42:25.935 sort of tumorigenesis that happen.

NOTE Confidence: 0.7751556

00:42:25.940 --> 00:42:28.356 So the less time shahbulat the lesser risk,

NOTE Confidence: 0.7751556

00:42:28.360 --> 00:42:30.726 the more times the Morris for risk.

NOTE Confidence: 0.7751556

00:42:30.730 --> 00:42:33.574 That's why having a lot of

NOTE Confidence: 0.7751556

00:42:33.574 --> 00:42:35.470 children having five children.

NOTE Confidence: 0.7751556

00:42:35.470 --> 00:42:37.654 It reduces your risk of basket

NOTE Confidence: 0.7751556

00:42:37.654 --> 00:42:39.470 of ovarian cancer by 50%.

NOTE Confidence: 0.7751556

00:42:39.470 --> 00:42:40.702 I got very close.

NOTE Confidence: 0.7751556

00:42:40.702 --> 00:42:43.464 I got to four very close to that

NOTE Confidence: 0.7751556

00:42:43.464 --> 00:42:45.972 reduction breast feeding every child for

NOTE Confidence: 0.7751556

00:42:45.972 --> 00:42:48.938 one year also gives you 50% the other

NOTE Confidence: 0.7751556

00:42:48.938 --> 00:42:51.486 the other way to decrease your risk,

NOTE Confidence: 0.7751556

00:42:51.490 --> 00:42:53.674 which is much more sane than

NOTE Confidence: 0.7751556

00:42:53.674 --> 00:42:55.130 having so many children.

00:42:55.130 --> 00:42:56.502 It's birth control pills.

00:42:56.502 --> 00:42:59.036 So any woman who uses birth control

00:42:59.036 --> 00:43:01.448 pills for five years during her

00:43:01.448 --> 00:43:03.498 lifetime decreases her risk by 50%.

00:43:03.500 --> 00:43:05.640 Anybody who uses birth control?

00:43:05.640 --> 00:43:07.860 Pills for 10 years decreases her

00:43:07.860 --> 00:43:10.422 risk by 80% and 15 years decrease

00:43:10.422 --> 00:43:13.040 for risk by 15 by by 90%.

00:43:13.040 --> 00:43:15.490 So so huge differences and this is

00:43:15.490 --> 00:43:17.849 something that I always talk about.

00:43:17.850 --> 00:43:20.440 Doesn't matter what talk I ever give,

00:43:20.440 --> 00:43:22.290 I always talk about that.

00:43:22.290 --> 00:43:23.086 You know,

00:43:23.086 --> 00:43:25.474 taking birth control pills is really

00:43:25.474 --> 00:43:28.313 the biggest thing that we as women can

00:43:28.313 --> 00:43:30.800 do for risk reduction of this cancers.

NOTE Confidence: 0.8222318

00:43:33.840 --> 00:43:35.272 And then tubal ligations,

NOTE Confidence: 0.8222318

00:43:35.272 --> 00:43:36.704 like the one mentioned,

NOTE Confidence: 0.8222318

00:43:36.710 --> 00:43:39.454 because we think that some of these cancers

NOTE Confidence: 0.8222318

00:43:39.454 --> 00:43:41.020 actually originated fallopian tube,

NOTE Confidence: 0.8222318

00:43:41.020 --> 00:43:43.354 so removing the fallopian tube is

NOTE Confidence: 0.8222318

00:43:43.354 --> 00:43:46.047 actually a huge thing that we can do.

NOTE Confidence: 0.8222318

00:43:46.050 --> 00:43:51.008 It decreases your risk by 70% when you do it.

NOTE Confidence: 0.8222318

00:43:51.010 --> 00:43:53.790 So I'm going to bring us to the end just

NOTE Confidence: 0.8222318

00:43:53.869 --> 00:43:56.305 so that we have time for questions.

NOTE Confidence: 0.8222318

00:43:56.310 --> 00:43:58.680 And you know, I just wanted to to make a

NOTE Confidence: 0.8222318

00:43:58.739 --> 00:44:00.989 few points about gynecological cancer.

NOTE Confidence: 0.8222318

00:44:00.990 --> 00:44:05.310 Before that the audio will take it over with.

NOTE Confidence: 0.8222318

00:44:05.310 --> 00:44:07.030 Talking about radiation oncology so

NOTE Confidence: 0.8222318

00:44:07.030 --> 00:44:09.458 so much has changed in the field

NOTE Confidence: 0.8222318

00:44:09.458 --> 00:44:11.068 were going to logic ecology.

NOTE Confidence: 0.8222318

00:44:11.070 --> 00:44:13.110 So much research is being done.

NOTE Confidence: 0.8222318

00:44:13.110 --> 00:44:15.945 A lot of you on this call I actually

NOTE Confidence: 0.8222318

00:44:15.945 --> 00:44:18.402 touched first hand by this and know

NOTE Confidence: 0.8222318

00:44:18.402 --> 00:44:20.569 the advances that we have made.

NOTE Confidence: 0.8222318

00:44:20.570 --> 00:44:22.936 You know we no longer treat everybody

NOTE Confidence: 0.8222318

00:44:22.936 --> 00:44:24.972 the same, you know, not it.

NOTE Confidence: 0.8222318

00:44:24.972 --> 00:44:26.324 You know you know,

NOTE Confidence: 0.8222318

00:44:26.330 --> 00:44:28.612 longer just come and get the same

NOTE Confidence: 0.8222318

00:44:28.612 --> 00:44:30.350 chemotherapy no matter what things

NOTE Confidence: 0.8222318

00:44:30.350 --> 00:44:31.746 are now truly different,

NOTE Confidence: 0.8222318

00:44:31.750 --> 00:44:33.138 truly personalized and individualized.

NOTE Confidence: 0.8222318

00:44:33.138 --> 00:44:35.590 And we understand what mutations the cancer.

NOTE Confidence: 0.8222318

00:44:35.590 --> 00:44:38.094 Has we studied this in in mice and

NOTE Confidence: 0.8222318

00:44:38.094 --> 00:44:40.070 we really understand what treatment

NOTE Confidence: 0.8222318

00:44:40.070 --> 00:44:41.774 is best for you?

NOTE Confidence: 0.8222318

00:44:41.780 --> 00:44:44.684 This is what allows women the best outcome.

NOTE Confidence: 0.8222318

00:44:44.690 --> 00:44:46.130 The longest survival cure,

NOTE Confidence: 0.8222318

00:44:46.130 --> 00:44:48.690 but also quality of life you know,

NOTE Confidence: 0.8222318

00:44:48.690 --> 00:44:51.178 allowed to live your life how you are

NOTE Confidence: 0.8222318

00:44:51.178 --> 00:44:54.149 and not allowing cancer to really change.

NOTE Confidence: 0.8222318

00:44:54.150 --> 00:44:56.894 Change your quality of life but so

NOTE Confidence: 0.8222318

00:44:56.894 --> 00:44:59.644 much more should be done and so much

NOTE Confidence: 0.8222318

00:44:59.644 --> 00:45:02.761 more has to be done and so much that

NOTE Confidence: 0.8222318

00:45:02.761 --> 00:45:05.065 should be done in early detection

NOTE Confidence: 0.8222318

00:45:05.070 --> 00:45:05.774 and prevention.

NOTE Confidence: 0.8222318

00:45:05.774 --> 00:45:08.590 But the biggest part of it is really

NOTE Confidence: 0.8222318

00:45:08.658 --> 00:45:10.686 more than anything else that we've

NOTE Confidence: 0.8222318

00:45:10.686 --> 00:45:13.762 done in the lab more than more than

NOTE Confidence: 0.8222318

00:45:13.762 --> 00:45:15.827 testing more than different tumor

NOTE Confidence: 0.8222318

00:45:15.827 --> 00:45:18.370 markers or biomarkers that we're looking at.

NOTE Confidence: 0.8222318

00:45:18.370 --> 00:45:20.862 The blood is really kind of awareness

NOTE Confidence: 0.8222318

00:45:20.862 --> 00:45:21.930 and an advocacy,

NOTE Confidence: 0.8222318

00:45:21.930 --> 00:45:24.066 and know your body and talking

NOTE Confidence: 0.8222318

00:45:24.066 --> 00:45:25.134 to your friends.

NOTE Confidence: 0.8222318

00:45:25.140 --> 00:45:26.163 And you know,

NOTE Confidence: 0.8222318

00:45:26.163 --> 00:45:29.050 we as women and men on this call,

NOTE Confidence: 0.8222318

00:45:29.050 --> 00:45:31.192 you guys had the biggest advocates

NOTE Confidence: 0.8222318

00:45:31.192 --> 00:45:33.548 you know when somebody I cannot tell

NOTE Confidence: 0.8222318

00:45:33.548 --> 00:45:35.564 you how many women I have talked

NOTE Confidence: 0.8222318

00:45:35.628 --> 00:45:37.748 to subsequently or diagnose after

NOTE Confidence: 0.8222318

00:45:37.748 --> 00:45:39.444 one of these conversations.

NOTE Confidence: 0.8222318

00:45:39.450 --> 00:45:41.346 Because when we stop to think

NOTE Confidence: 0.8222318

00:45:41.346 --> 00:45:42.610 and remember the date,

NOTE Confidence: 0.8222318

00:45:42.610 --> 00:45:44.470 these things kind of stick with

NOTE Confidence: 0.8222318

00:45:44.470 --> 00:45:47.157 us and kind of influence what we

NOTE Confidence: 0.8222318

00:45:47.157 --> 00:45:48.537 remember going forward.

NOTE Confidence: 0.8222318

00:45:48.540 --> 00:45:51.006 So thank you so much for the time and

NOTE Confidence: 0.8222318

00:45:51.006 --> 00:45:53.774 we're so thrilled that you're with us today.

NOTE Confidence: 0.8222318

00:45:53.780 --> 00:45:55.996 I'll let Doctor Ariel do her part and

NOTE Confidence: 0.8222318

00:45:55.996 --> 00:45:58.399 then we will have time for questions.

NOTE Confidence: 0.92061305

00:46:13.040 --> 00:46:16.110 Thank you. Um, let's see.

NOTE Confidence: 0.88974226

00:46:19.060 --> 00:46:23.253 So I put together a few slides

NOTE Confidence: 0.88974226

00:46:23.253 --> 00:46:25.050 about radiotherapy applications

NOTE Confidence: 0.88974226

00:46:25.155 --> 00:46:27.669 for gynecological cancers.

NOTE Confidence: 0.88974226

00:46:27.670 --> 00:46:31.883 And for the people in audience who are

NOTE Confidence: 0.88974226

00:46:31.883 --> 00:46:35.788 not quite familiar with radiation therapy,

NOTE Confidence: 0.88974226

00:46:35.790 --> 00:46:37.407 what is radiation?

NOTE Confidence: 0.88974226

00:46:37.407 --> 00:46:40.641 It's a treatment modality that uses

NOTE Confidence: 0.88974226

00:46:40.641 --> 00:46:44.557 high energy particles and hard energy

NOTE Confidence: 0.88974226

00:46:44.557 --> 00:46:47.842 electromagnetic waves to destroy cancer

NOTE Confidence: 0.88974226

00:46:47.942 --> 00:46:50.975 cells and the target for radiation

NOTE Confidence: 0.88974226

00:46:50.975 --> 00:46:54.400 treatment for radiation waves is

75

NOTE Confidence: 0.88974226

00:46:54.400 --> 00:46:58.438 basically the DNA molecule of the cell.

NOTE Confidence: 0.88974226

00:46:58.440 --> 00:47:01.590 The radiation damages the DNA,

NOTE Confidence: 0.88974226

00:47:01.590 --> 00:47:04.740 breaks the DNA and produces.

NOTE Confidence: 0.88974226

00:47:04.740 --> 00:47:09.270 In the end cancer cell death.

NOTE Confidence: 0.88974226

00:47:09.270 --> 00:47:11.638 Um? According to sorry.

NOTE Confidence: 0.88974226

00:47:11.638 --> 00:47:14.598 So basically radiation happy help

NOTE Confidence: 0.88974226

00:47:14.598 --> 00:47:17.788 clinically has been a therapeutic

NOTE Confidence: 0.88974226

00:47:17.788 --> 00:47:19.669 component for gynecological

NOTE Confidence: 0.88974226

00:47:19.669 --> 00:47:22.822 malignancies for many many years

NOTE Confidence: 0.88974226

00:47:22.822 --> 00:47:25.782 according to evidence based treatment

NOTE Confidence: 0.88974226

00:47:25.782 --> 00:47:28.139 guidelines has been published.

NOTE Confidence: 0.88974226

00:47:28.139 --> 00:47:31.613 An article they looked into estimated

NOTE Confidence: 0.88974226

00:47:31.613 --> 00:47:35.180 frequency of use of radiation for

NOTE Confidence: 0.88974226

00:47:35.180 --> 00:47:37.496 gynecological malignancies and can

NOTE Confidence: 0.88974226

00:47:37.496 --> 00:47:40.928 see that most commonly we apply.

NOTE Confidence: 0.88974226

00:47:40.930 --> 00:47:44.969 Radiation for cervical cancer is up to

NOTE Confidence: 0.88974226

00:47:44.969 --> 00:47:48.440 60% of patients then endometrial cancer.

NOTE Confidence: 0.88974226

00:47:48.440 --> 00:47:51.330 45% volver cased cancer 40%.

NOTE Confidence: 0.88974226

00:47:51.330 --> 00:47:54.798 Actually vaginal cancer is very rare,

NOTE Confidence: 0.88974226

00:47:54.800 --> 00:47:58.352 but it's almost 100% of the

NOTE Confidence: 0.88974226

00:47:58.352 --> 00:48:01.160 cases require radiation and 10%

NOTE Confidence: 0.88974226

00:48:01.160 --> 00:48:04.050 of patients with ovarian cancer.

NOTE Confidence: 0.88974226

00:48:04.050 --> 00:48:07.170 So the least.

NOTE Confidence: 0.88974226

00:48:07.170 --> 00:48:09.598 So there are two approaches.

NOTE Confidence: 0.88974226

00:48:09.598 --> 00:48:11.534 When we administer radiation

NOTE Confidence: 0.88974226

00:48:11.534 --> 00:48:12.986 for gynecological cancers,

NOTE Confidence: 0.88974226

00:48:12.990 --> 00:48:16.105 one is external radiation and the 2nd

NOTE Confidence: 0.88974226

00:48:16.105 --> 00:48:18.809 is internal radiation or brachytherapy.

NOTE Confidence: 0.88974226

00:48:18.810 --> 00:48:19.792 So this,

NOTE Confidence: 0.88974226

00:48:19.792 --> 00:48:22.247 this slide illustrates the external

NOTE Confidence: 0.88974226

00:48:22.247 --> 00:48:24.150 radiation is administered with.

00:48:24.150 --> 00:48:26.570 With this big machine called

00:48:26.570 --> 00:48:27.538 linear accelerator,

00:48:27.540 --> 00:48:30.762 the patient is positioned on the

00:48:30.762 --> 00:48:32.910 treatment table and radiation

00:48:33.000 --> 00:48:35.700 treatment is given from is produced

00:48:35.700 --> 00:48:39.237 here in the head of the machine and.

00:48:39.240 --> 00:48:43.850 He's aimed to the area that we want to treat.

00:48:43.850 --> 00:48:44.294 Um,

00:48:44.294 --> 00:48:47.402 for gynecological cancers we use a lot

00:48:47.402 --> 00:48:50.049 bracket therapy or internal radiation.

00:48:50.050 --> 00:48:53.452 What does it mean that applicators are

00:48:53.452 --> 00:48:56.728 placed inside the body of the patient

00:48:56.728 --> 00:49:00.550 and then they are connected to this machine,

00:49:00.550 --> 00:49:03.406 that is housing the radiation source

00:49:03.406 --> 00:49:06.325 most frequently is iradium 192 is

00:49:06.325 --> 00:49:08.650 high dose rate brachytherapy device,

NOTE Confidence: 0.88974226

00:49:08.650 --> 00:49:11.499 so when we turn on this machine

NOTE Confidence: 0.88974226

00:49:11.499 --> 00:49:14.440 the source of radiation travels.

NOTE Confidence: 0.88974226

00:49:14.440 --> 00:49:17.218 Through this connection to the patient's

NOTE Confidence: 0.88974226

00:49:17.218 --> 00:49:20.049 body to the applicator delivers the

NOTE Confidence: 0.88974226

00:49:20.049 --> 00:49:23.192 radiation and after the dose is delivered,

NOTE Confidence: 0.88974226

00:49:23.200 --> 00:49:26.968 it returns back to the housing.

NOTE Confidence: 0.88974226

00:49:26.970 --> 00:49:29.330 Machine those are some examples

NOTE Confidence: 0.88974226

00:49:29.330 --> 00:49:32.409 of applicators that we use for

NOTE Confidence: 0.88974226

00:49:32.409 --> 00:49:34.949 brachytherapy for inside radiation,

NOTE Confidence: 0.88974226

00:49:34.950 --> 00:49:38.492 so they are actually placed in close

NOTE Confidence: 0.88974226

00:49:38.492 --> 00:49:41.680 proximity to the tumor or targeted

NOTE Confidence: 0.88974226

00:49:41.680 --> 00:49:46.120 area and sometimes right in the tumor itself.

NOTE Confidence: 0.88974226

00:49:46.120 --> 00:49:47.716 So for example,

NOTE Confidence: 0.88974226

00:49:47.716 --> 00:49:49.844 those are vaginal cylinders.

NOTE Confidence: 0.88974226

00:49:49.850 --> 00:49:53.707 Those are thin hollow tubes that are

NOTE Confidence: 0.88974226

00:49:53.707 --> 00:49:57.228 actually introduced in the uterine cavity.

NOTE Confidence: 0.88974226

00:49:57.230 --> 00:50:00.386 And placed in proximity to the.

NOTE Confidence: 0.88974226

00:50:00.390 --> 00:50:02.580 Cervix for basically for cervical

NOTE Confidence: 0.88974226

00:50:02.580 --> 00:50:05.331 cancer and those are needles that

NOTE Confidence: 0.88974226

00:50:05.331 --> 00:50:07.746 actually are used for brachytherapy.

NOTE Confidence: 0.88974226

00:50:07.750 --> 00:50:11.110 When we want to treat gross tumor so

NOTE Confidence: 0.88974226

00:50:11.110 --> 00:50:14.650 they are placed inside the tumor itself.

NOTE Confidence: 0.88974226

00:50:14.650 --> 00:50:17.770 So there are basically three main

NOTE Confidence: 0.88974226

00:50:17.770 --> 00:50:19.898 clinical indications for radiation.

NOTE Confidence: 0.88974226

00:50:19.900 --> 00:50:20.872 In practice,

NOTE Confidence: 0.88974226

00:50:20.872 --> 00:50:23.788 one is related to the surgery

NOTE Confidence: 0.88974226

00:50:23.788 --> 00:50:25.830 that removes the cancer.

NOTE Confidence: 0.88974226

00:50:25.830 --> 00:50:29.430 So we know surgery we want to the

NOTE Confidence: 0.88974226

00:50:29.430 --> 00:50:32.737 cancer to be removed by surgery.

NOTE Confidence: 0.88974226

00:50:32.740 --> 00:50:34.816 But sometimes radiation helps

NOTE Confidence: 0.88974226

00:50:34.816 --> 00:50:37.411 before surgery to shrink the

NOTE Confidence: 0.88974226

00:50:37.411 --> 00:50:39.660 tumor and make the surgery.

NOTE Confidence: 0.88974226

00:50:39.660 --> 00:50:42.618 Maybe a little bit less extensive.

NOTE Confidence: 0.88974226

00:50:42.620 --> 00:50:45.105 And sometimes we give radiation

NOTE Confidence: 0.88974226

00:50:45.105 --> 00:50:47.590 based on the stage and

NOTE Confidence: 0.879658

00:50:47.692 --> 00:50:50.547 risk factors after the surgery.

NOTE Confidence: 0.879658

00:50:50.550 --> 00:50:51.873 In this situation,

NOTE Confidence: 0.879658

00:50:51.873 --> 00:50:54.960 is given to prevent tomorrow or to

NOTE Confidence: 0.879658

00:50:55.046 --> 00:50:58.208 decrease the risk of tumor recurrence.

NOTE Confidence: 0.879658

00:50:58.210 --> 00:51:03.160 So we these. In this third radiation,

NOTE Confidence: 0.879658

00:51:03.160 --> 00:51:05.200 when radiation is given related to

NOTE Confidence: 0.879658

00:51:05.266 --> 00:51:07.286 surgery can be administered either

NOTE Confidence: 0.879658

00:51:07.286 --> 00:51:09.240 external or internal, and usually

NOTE Confidence: 0.879658

00:51:09.240 --> 00:51:12.840 the duration is 3 to 5 weeks course.

NOTE Confidence: 0.879658

00:51:12.840 --> 00:51:15.730 Another application is definitive treatment

NOTE Confidence: 0.879658

00:51:15.730 --> 00:51:19.580 when tumors cannot be removed by surgery,

NOTE Confidence: 0.879658

00:51:19.580 --> 00:51:22.390 so we rely on radiation

NOTE Confidence: 0.879658

00:51:22.390 --> 00:51:24.638 to control those tumors.

NOTE Confidence: 0.879658

00:51:24.640 --> 00:51:27.450 Usually chemotherapy is given together

NOTE Confidence: 0.879658

00:51:27.450 --> 00:51:30.260 most frequently in the cervical,

NOTE Confidence: 0.879658

00:51:30.260 --> 00:51:32.508 vulvar, and vaginal cancer,

NOTE Confidence: 0.879658

00:51:32.508 --> 00:51:35.880 and again when we treat definitively,

NOTE Confidence: 0.879658

00:51:35.880 --> 00:51:38.690 it's sometimes it's a combination

NOTE Confidence: 0.879658

00:51:38.690 --> 00:51:41.500 of external and internal radiation,

NOTE Confidence: 0.879658

00:51:41.500 --> 00:51:43.105 and sometimes it's.

NOTE Confidence: 0.879658

00:51:43.105 --> 00:51:44.710 Only external radiation,

NOTE Confidence: 0.879658

00:51:44.710 --> 00:51:47.428 but the course is long because

NOTE Confidence: 0.879658

00:51:47.428 --> 00:51:50.520 we need to give higher dose.

NOTE Confidence: 0.879658

00:51:50.520 --> 00:51:53.908 So 67 even more weeks of treatment.

NOTE Confidence: 0.879658

00:51:53.910 --> 00:51:56.330 And of course for palliation,

NOTE Confidence: 0.879658

00:51:56.330 --> 00:51:58.166 when kind of Khalaj,

NOTE Confidence: 0.879658

00:51:58.166 --> 00:52:00.002 ikle tumors themselves or

NOTE Confidence: 0.879658

00:52:00.002 --> 00:52:01.650 metastasis cause symptoms,

NOTE Confidence: 0.879658

00:52:01.650 --> 00:52:05.038 then we give short course of radiation,

NOTE Confidence: 0.879658

00:52:05.040 --> 00:52:06.444 external radiation treatment

NOTE Confidence: 0.879658

00:52:06.444 --> 00:52:09.720 one to two weeks and example of

NOTE Confidence: 0.879658

00:52:09.802 --> 00:52:12.297 symptoms are like bleeding pain,

NOTE Confidence: 0.879658

00:52:12.300 --> 00:52:13.444 pressure, obstruction.

NOTE Confidence: 0.879658

00:52:13.444 --> 00:52:15.732 That reduction has been

NOTE Confidence: 0.879658

00:52:15.732 --> 00:52:17.448 proven quite successful.

NOTE Confidence: 0.879658

00:52:17.450 --> 00:52:20.660 Successful in palliate.

NOTE Confidence: 0.879658

00:52:20.660 --> 00:52:24.470 So it always has been a concern for

NOTE Confidence: 0.879658

00:52:24.470 --> 00:52:26.378 treatment related side effects,

NOTE Confidence: 0.879658

00:52:26.380 --> 00:52:28.772 radiation related side effects.

NOTE Confidence: 0.879658

00:52:28.772 --> 00:52:31.164 So basically technical advancements

NOTE Confidence: 0.879658

00:52:31.164 --> 00:52:34.271 that have been achieved in the last

NOTE Confidence: 0.879658

00:52:34.271 --> 00:52:37.532 years allow us to get a better cancer

NOTE Confidence: 0.879658

00:52:37.532 --> 00:52:39.787 control and decreased side effects

NOTE Confidence: 0.879658

00:52:39.787 --> 00:52:42.103 and for gynecological cancers we

NOTE Confidence: 0.879658

00:52:42.103 --> 00:52:44.929 are looking at side effects related

NOTE Confidence: 0.879658

00:52:44.929 --> 00:52:47.467 to rectum urinary bladder bowel

NOTE Confidence: 0.879658

00:52:47.467 --> 00:52:49.957 because those are organs close.

NOTE Confidence: 0.879658

00:52:49.960 --> 00:52:53.446 In the area where we administer

NOTE Confidence: 0.879658

00:52:53.446 --> 00:52:55.770 radiation for these diagnosis,

NOTE Confidence: 0.879658

00:52:55.770 --> 00:52:57.627 so for example,

NOTE Confidence: 0.879658

00:52:57.627 --> 00:53:00.415 technical advancements are software

NOTE Confidence: 0.879658

00:53:00.415 --> 00:53:03.900 algorithms that have been created

NOTE Confidence: 0.879658

00:53:03.991 --> 00:53:06.721 and allow us to incorporate the

NOTE Confidence: 0.879658

00:53:06.721 --> 00:53:08.541 PET CT scan images,

NOTE Confidence: 0.879658

00:53:08.550 --> 00:53:13.398 MRI images in our treatment planning.

NOTE Confidence: 0.879658

00:53:13.400 --> 00:53:15.965 Another advance that now it's

NOTE Confidence: 0.879658

00:53:15.965 --> 00:53:19.717 advancement that is now part of our

NOTE Confidence: 0.879658

00:53:19.717 --> 00:53:23.005 daily treatments is and standard is

NOTE Confidence: 0.879658

00:53:23.005 --> 00:53:25.789 intensity modulated radiation therapy.

NOTE Confidence: 0.879658

00:53:25.790 --> 00:53:28.616 This is a way to administer

NOTE Confidence: 0.879658

00:53:28.616 --> 00:53:31.810 radiation in a very conform way,

NOTE Confidence: 0.879658

00:53:31.810 --> 00:53:35.324 conform to the shape of the tumor.

NOTE Confidence: 0.879658

00:53:35.330 --> 00:53:39.074 So in this way we could increase the

NOTE Confidence: 0.879658

00:53:39.074 --> 00:53:42.858 dose that we administer to the tumor,

NOTE Confidence: 0.879658

00:53:42.860 --> 00:53:45.370 sparing healthy tissues around it.

NOTE Confidence: 0.879658

00:53:45.370 --> 00:53:47.575 Another good advancement that we

NOTE Confidence: 0.879658

00:53:47.575 --> 00:53:50.916 also apply on a daily basis is

NOTE Confidence: 0.879658

00:53:50.916 --> 00:53:53.531 incorporation of high quality images

NOTE Confidence: 0.879658

00:53:53.531 --> 00:53:57.069 taking just before each treatment session.

NOTE Confidence: 0.879658

00:53:57.070 --> 00:53:59.872 To make sure that patient is

NOTE Confidence: 0.879658

00:53:59.872 --> 00:54:01.740 positioned correctly and radiation

NOTE Confidence: 0.879658

00:54:01.815 --> 00:54:04.410 is administered with high accuracy.

NOTE Confidence: 0.879658

00:54:04.410 --> 00:54:06.984 So this is image guided radiation

85

NOTE Confidence: 0.879658

00:54:06.984 --> 00:54:09.780 therapy and our linear accelerators.

NOTE Confidence: 0.879658

00:54:09.780 --> 00:54:11.277 So our machine,

NOTE Confidence: 0.879658

00:54:11.277 --> 00:54:13.273 external radiation machines are

NOTE Confidence: 0.879658

00:54:13.273 --> 00:54:16.249 very capable and we can obtain

NOTE Confidence: 0.879658

00:54:16.249 --> 00:54:18.584 this images before each treatment.

NOTE Confidence: 0.86734736

00:54:20.820 --> 00:54:24.628 The least promising research

NOTE Confidence: 0.86734736

00:54:24.628 --> 00:54:29.388 that probably will increase the.

NOTE Confidence: 0.86734736

00:54:29.390 --> 00:54:31.920 Good results and for example,

NOTE Confidence: 0.86734736

00:54:31.920 --> 00:54:34.200 new combinations of radiation

NOTE Confidence: 0.86734736

00:54:34.200 --> 00:54:36.480 therapy with systemic treatments

NOTE Confidence: 0.86734736

00:54:36.480 --> 00:54:38.526 like immunotherapy or inhibitors

NOTE Confidence: 0.86734736

00:54:38.526 --> 00:54:41.016 of DNA repair mechanisms in cancer

NOTE Confidence: 0.86734736

00:54:41.016 --> 00:54:43.049 cells like PARP inhibitors,

NOTE Confidence: 0.86734736

00:54:43.050 --> 00:54:47.120 and even for the radiation.

NOTE Confidence: 0.86734736

00:54:47.120 --> 00:54:49.766 Modalities there is a new radiation

NOTE Confidence: 0.86734736

00:54:49.766 --> 00:54:52.529 treatment devices that are being tested.

NOTE Confidence: 0.86734736

00:54:52.530 --> 00:54:55.068 For example, this is a miniature

NOTE Confidence: 0.86734736

00:54:55.068 --> 00:54:57.800 X Ray source exhaust system or

NOTE Confidence: 0.86734736

00:54:57.800 --> 00:55:00.195 that gives a precise concentrated

NOTE Confidence: 0.86734736

00:55:00.195 --> 00:55:02.909 dose directly to the tumor size,

NOTE Confidence: 0.86734736

00:55:02.910 --> 00:55:06.393 so site so this can be applied to breast

NOTE Confidence: 0.86734736

00:55:06.393 --> 00:55:09.667 cancer but also to gynecological cancers.

NOTE Confidence: 0.86734736

00:55:09.670 --> 00:55:12.814 So it's always knew research and

NOTE Confidence: 0.86734736

00:55:12.814 --> 00:55:16.150 new results that we're looking for.

NOTE Confidence: 0.86734736

00:55:16.150 --> 00:55:16.760 Thank you.

NOTE Confidence: 0.87830025

00:55:18.920 --> 00:55:19.510 I think.

NOTE Confidence: 0.9130134

00:55:21.980 --> 00:55:25.560 Wonderful thank you so much.

NOTE Confidence: 0.9130134

00:55:25.560 --> 00:55:27.300 So we would love to open

NOTE Confidence: 0.9130134

00:55:27.300 --> 00:55:29.058 it to questions if if you

NOTE Confidence: 0.9130134

00:55:29.058 --> 00:55:30.892 guys have any you can do it.

NOTE Confidence: 0.9130134

00:55:30.900 --> 00:55:32.305 Probably live if you want

NOTE Confidence: 0.9130134

00:55:32.305 --> 00:55:33.710 to raise hands on Q&A,

NOTE Confidence: 0.9130134

00:55:33.710 --> 00:55:35.402 we happy to talk about anything

NOTE Confidence: 0.9130134

00:55:35.402 --> 00:55:37.360 you guys would like to talk about.

NOTE Confidence: 0.9130134

00:55:37.360 --> 00:55:38.488 We're here to disposal.

NOTE Confidence: 0.87701935

00:55:43.040 --> 00:55:45.992 And if not, then we finished

NOTE Confidence: 0.87701935

00:55:45.992 --> 00:55:48.130 three minutes earlier. Thank you,

NOTE Confidence: 0.87701935

00:55:48.130 --> 00:55:50.116 thank you so much everybody will

NOTE Confidence: 0.87701935

00:55:50.116 --> 00:55:52.439 love being with you. I think your

NOTE Confidence: 0.8024052

00:55:52.440 --> 00:55:54.420 couple questions on the chat actually.

NOTE Confidence: 0.8630768

00:55:56.600 --> 00:55:58.568 One is for you, I think.

NOTE Confidence: 0.8341016

00:56:02.080 --> 00:56:04.215 So the first question that's right now,

NOTE Confidence: 0.8341016

00:56:04.220 --> 00:56:06.050 can you just repeat what they're

NOTE Confidence: 0.8341016

00:56:06.050 --> 00:56:07.270 using birth control pills?

NOTE Confidence: 0.8341016

00:56:07.270 --> 00:56:09.538 Reduce the chance of a very unimpressed

NOTE Confidence: 0.8341016

00:56:09.538 --> 00:56:11.540 had breast cancer and it's cut off.

NOTE Confidence: 0.8341016

88

00:56:11.540 --> 00:56:14.276 Let's see if there's a way I can get.

NOTE Confidence: 0.8341016

00:56:14.280 --> 00:56:16.720 So today I'll talk a little bit it,

NOTE Confidence: 0.8341016

00:56:16.720 --> 00:56:19.338 cut off a look at the end

NOTE Confidence: 0.8341016

00:56:19.338 --> 00:56:21.838 if you would like to just.

NOTE Confidence: 0.8341016

00:56:21.840 --> 00:56:23.828 If you like to type more so.

NOTE Confidence: 0.85754645

00:56:27.430 --> 00:56:29.170 Birth control pills unquestionably

NOTE Confidence: 0.85754645

00:56:29.170 --> 00:56:31.345 reduce the risk within cancer,

NOTE Confidence: 0.85754645

00:56:31.350 --> 00:56:34.511 and as I mentioned in the numbers,

NOTE Confidence: 0.85754645

00:56:34.511 --> 00:56:38.919 very much very much so very significantly so.

NOTE Confidence: 0.85754645

00:56:38.920 --> 00:56:40.610 If you had breast cancer,

NOTE Confidence: 0.85754645

00:56:40.610 --> 00:56:42.640 is really the only time where

NOTE Confidence: 0.85754645

00:56:42.640 --> 00:56:44.668 you gotta talk to your provider

NOTE Confidence: 0.85754645

00:56:44.668 --> 00:56:46.405 to talk about pluses, minuses,

NOTE Confidence: 0.85754645

00:56:46.405 --> 00:56:49.100 because a lot of breast cancers are

NOTE Confidence: 0.85754645

00:56:49.100 --> 00:56:50.907 hormone sensitive and we would not

NOTE Confidence: 0.85754645

00:56:50.907 --> 00:56:53.173 want to do that if you had breast

NOTE Confidence: 0.85754645

00:56:53.173 --> 00:56:55.411 cancer because even though it would

NOTE Confidence: 0.85754645

00:56:55.411 --> 00:56:57.138 decrease your risk within cancer,

NOTE Confidence: 0.85754645

00:56:57.138 --> 00:56:58.442 it would potentially increase

NOTE Confidence: 0.85754645

00:56:58.442 --> 00:57:00.210 your risk of breast cancer.

NOTE Confidence: 0.85754645

00:57:00.210 --> 00:57:02.386 So if if you don't have if you

NOTE Confidence: 0.85754645

00:57:02.386 --> 00:57:04.468 never had breast cancer then we

NOTE Confidence: 0.85754645

00:57:04.468 --> 00:57:06.670 very much feel that the benefits

NOTE Confidence: 0.85754645

00:57:06.743 --> 00:57:09.263 that you get from the reduction in

NOTE Confidence: 0.85754645

00:57:09.263 --> 00:57:12.070 ovarian cancer and uterine cancer.

NOTE Confidence: 0.85754645

00:57:12.070 --> 00:57:13.981 Outweigh all the risks and and very

NOTE Confidence: 0.85754645

00:57:13.981 --> 00:57:15.740 much feel that it's worthwhile.

NOTE Confidence: 0.85754645

00:57:15.740 --> 00:57:17.576 But if you had breast cancer,

NOTE Confidence: 0.85754645

00:57:17.580 --> 00:57:20.325 that would be the only time where you would.

NOTE Confidence: 0.85754645

00:57:20.330 --> 00:57:22.220 You would be careful and you would

NOTE Confidence: 0.85754645

00:57:22.220 --> 00:57:24.142 need to speak with you with your

NOTE Confidence: 0.85754645

00:57:24.142 --> 00:57:26.224 doctor to make sure that the breast

NOTE Confidence: 0.85754645

00:57:26.224 --> 00:57:27.976 cancer wasn't hormone sensitive.

NOTE Confidence: 0.8763222

00:57:30.060 --> 00:57:32.398 The second question is what are the

NOTE Confidence: 0.8763222

00:57:32.398 --> 00:57:34.435 latest findings for treatment for

NOTE Confidence: 0.8763222

00:57:34.435 --> 00:57:36.379 varying cancer with immunotherapy,

NOTE Confidence: 0.8763222

00:57:36.380 --> 00:57:37.960 which one specifically so

NOTE Confidence: 0.8763222

00:57:37.960 --> 00:57:39.935 I can start them glory.

NOTE Confidence: 0.8763222

00:57:39.940 --> 00:57:41.910 I'm sure you will like

NOTE Confidence: 0.8763222

00:57:41.910 --> 00:57:43.486 to get so immunotherapy.

NOTE Confidence: 0.8763222

00:57:43.490 --> 00:57:45.440 Is this wonderful new treatment

NOTE Confidence: 0.8763222

00:57:45.440 --> 00:57:47.840 modality that we have started using.

NOTE Confidence: 0.8763222

00:57:47.840 --> 00:57:48.234 Unfortunately,

NOTE Confidence: 0.8763222

00:57:48.234 --> 00:57:51.386 it does not seem to be for everybody,

NOTE Confidence: 0.8763222

00:57:51.390 --> 00:57:52.970 and that's especially the

NOTE Confidence: 0.8763222

00:57:52.970 --> 00:57:54.550 case in ovarian cancer.

NOTE Confidence: 0.8763222

00:57:54.550 --> 00:57:56.920 You know, being cancer by itself,

NOTE Confidence: 0.8763222

00:57:56.920 --> 00:57:59.685 only 7% of women respond to immunotherapy,

NOTE Confidence: 0.8763222

00:57:59.690 --> 00:58:02.210 so not a great number.

NOTE Confidence: 0.8763222

00:58:02.210 --> 00:58:05.297 But it is just like everything that

NOTE Confidence: 0.8763222

00:58:05.297 --> 00:58:08.367 we talked in in the talk today.

NOTE Confidence: 0.8763222

00:58:08.370 --> 00:58:11.010 It is truly personalized and individualized.

NOTE Confidence: 0.8763222

00:58:11.010 --> 00:58:14.027 So when the when the cancer cells

NOTE Confidence: 0.8763222

00:58:14.027 --> 00:58:16.290 studied specifically for the patient,

NOTE Confidence: 0.8763222

00:58:16.290 --> 00:58:18.786 some of these cancer cells have

NOTE Confidence: 0.8763222

00:58:18.786 --> 00:58:20.996 specific mutations and for some

NOTE Confidence: 0.8763222

00:58:20.996 --> 00:58:22.888 of these specific mutations,

NOTE Confidence: 0.8763222

00:58:22.890 --> 00:58:24.742 immunotherapy is very effective.

NOTE Confidence: 0.8763222

00:58:24.742 --> 00:58:28.610 So KEYTRUDA is the one that we would use.

NOTE Confidence: 0.8763222

00:58:28.610 --> 00:58:31.250 But again, it's not for everybody,

NOTE Confidence: 0.8763222

00:58:31.250 --> 00:58:33.458 it's specifically for those

NOTE Confidence: 0.8763222

00:58:33.458 --> 00:58:35.114 who have mutations.

NOTE Confidence: 0.8763222

00:58:35.120 --> 00:58:37.150 And there's a question about poverty matters,

NOTE Confidence: 0.8763222

00:58:37.150 --> 00:58:40.158 and that's very similar.

NOTE Confidence: 0.8763222

00:58:40.160 --> 00:58:42.320 Um, that's for proper hitters.

NOTE Confidence: 0.8763222

00:58:42.320 --> 00:58:44.470 There's nowadays a lot of

NOTE Confidence: 0.8763222

00:58:44.470 --> 00:58:46.190 literature and pop inhibitors.

NOTE Confidence: 0.8763222

00:58:46.190 --> 00:58:49.060 In 2014 was the first time where

NOTE Confidence: 0.8763222

00:58:49.060 --> 00:58:51.709 Papa inhibitors became part of the

NOTE Confidence: 0.8763222

00:58:51.709 --> 00:58:53.944 treatment regimen for Varian Cancer.

NOTE Confidence: 0.8763222

00:58:53.950 --> 00:58:57.398 At that time, it was only for women,

NOTE Confidence: 0.8763222

00:58:57.400 --> 00:58:58.693 with varying cancer,

NOTE Confidence: 0.8763222

00:58:58.693 --> 00:58:59.986 with Brad commutations.

NOTE Confidence: 0.8763222

00:58:59.990 --> 00:59:02.055 Subsequently we have found that

NOTE Confidence: 0.8763222

00:59:02.055 --> 00:59:04.120 property hitters helpful for women

NOTE Confidence: 0.8763222

00:59:04.192 --> 00:59:06.447 merges with with broccoli mutations,

NOTE Confidence: 0.8763222

00:59:06.450 --> 00:59:09.036 but with other mutations as well.

NOTE Confidence: 0.8763222

00:59:09.040 --> 00:59:10.510 Something called homologous

NOTE Confidence: 0.8763222

00:59:10.510 --> 00:59:11.490 recombination deficiency.

NOTE Confidence: 0.8763222

00:59:11.490 --> 00:59:14.108 And we now use pop inhibitors in

NOTE Confidence: 0.8763222

00:59:14.108 --> 00:59:16.190 treatment and also maintenance,

NOTE Confidence: 0.8763222

00:59:16.190 --> 00:59:19.298 which means that some women take property

NOTE Confidence: 0.8763222

00:59:19.298 --> 00:59:22.310 matters when they're cancer free to prevent

NOTE Confidence: 0.8763222

00:59:22.310 --> 00:59:25.150 or delay cancer cells from coming back.

NOTE Confidence: 0.8763222

00:59:25.150 --> 00:59:27.285 But similarly to what I

NOTE Confidence: 0.8763222

00:59:27.285 --> 00:59:28.566 mentioned about immunotherapy.

NOTE Confidence: 0.8763222

00:59:28.570 --> 00:59:28.998 Similarly,

NOTE Confidence: 0.8763222

00:59:28.998 --> 00:59:30.710 it's not for everybody.

NOTE Confidence: 0.8763222

00:59:30.710 --> 00:59:34.544 It truly needs to be smart and and directed,

NOTE Confidence: 0.8763222

00:59:34.550 --> 00:59:36.680 and cells should be studied.

NOTE Confidence: 0.8763222

00:59:36.680 --> 00:59:37.961 These specific mutations

NOTE Confidence: 0.8763222

00:59:37.961 --> 00:59:39.669 assessed and decision made,

NOTE Confidence: 0.8763222

00:59:39.670 --> 00:59:42.718 who really would benefit from these.

NOTE Confidence: 0.8763222

00:59:42.720 --> 00:59:43.950 Versus others glory.

NOTE Confidence: 0.8763222

00:59:43.950 --> 00:59:46.410 If you would like to add

NOTE Confidence: 0.8763222

00:59:46.410 --> 00:59:48.740 I think then Cynthia is

NOTE Confidence: 0.84832627

00:59:48.740 --> 00:59:50.890 able to speak. Sure, yes,

NOTE Confidence: 0.84832627

00:59:50.890 --> 00:59:53.470 I agree in terms of immunotherapy,

NOTE Confidence: 0.84832627

00:59:53.470 --> 00:59:56.571 that what we have available right now

NOTE Confidence: 0.84832627

00:59:56.571 --> 01:00:00.467 and the data that we have is that immuno.

NOTE Confidence: 0.84832627

01:00:00.470 --> 01:00:04.418 Therapy has a highest likelihood of success.

NOTE Confidence: 0.84832627

01:00:04.420 --> 01:00:07.552 If the tumor has certain characteristics

NOTE Confidence: 0.84832627

01:00:07.552 --> 01:00:10.620 such as mismatch repair deficiency,

NOTE Confidence: 0.84832627

01:00:10.620 --> 01:00:14.004 you might hear that term or

NOTE Confidence: 0.84832627

01:00:14.004 --> 01:00:15.696 or microsatellite instability.

NOTE Confidence: 0.84832627

01:00:15.700 --> 01:00:18.520 So those type of changes

NOTE Confidence: 0.84832627

01:00:18.520 --> 01:00:21.340 happen a bit more frequently,

NOTE Confidence: 0.84832627

01:00:21.340 --> 01:00:24.220 and cancer such as endometrial

NOTE Confidence: 0.84832627

01:00:24.220 --> 01:00:26.524 cancers and colorectal cancers

NOTE Confidence: 0.84832627

01:00:26.524 --> 01:00:28.670 compared to ovarian cancer.

NOTE Confidence: 0.84832627

01:00:28.670 --> 01:00:33.374 But somewhere in cancers can have that.

NOTE Confidence: 0.84832627

01:00:33.380 --> 01:00:35.612 For ovarian cancers that

NOTE Confidence: 0.84832627

01:00:35.612 --> 01:00:37.844 don't have that feature,

NOTE Confidence: 0.84832627

01:00:37.850 --> 01:00:41.609 what we're looking to is probably going

NOTE Confidence: 0.84832627

01:00:41.609 --> 01:00:44.728 to be combination therapies where

NOTE Confidence: 0.84832627

01:00:44.728 --> 01:00:48.964 immunotherapy is combined with other agents.

NOTE Confidence: 0.84832627

01:00:48.970 --> 01:00:51.255 Those that target the abnormal

NOTE Confidence: 0.84832627

01:00:51.255 --> 01:00:53.083 blood vessels of tumors,

NOTE Confidence: 0.84832627

01:00:53.090 --> 01:00:55.380 those that target DNA damage,

NOTE Confidence: 0.84832627

01:00:55.380 --> 01:00:58.098 repair sometimes are drugs that target

NOTE Confidence: 0.84832627

01:00:58.098 --> 01:01:00.898 DNA damage repair like PARP inhibitors

NOTE Confidence: 0.84832627

01:01:00.898 --> 01:01:03.628 can actually lead to DNA changes.

NOTE Confidence: 0.84832627

01:01:03.630 --> 01:01:06.666 That makes the body's immune cells

NOTE Confidence: 0.84832627

01:01:06.666 --> 01:01:09.271 more able to potentially identify

NOTE Confidence: 0.84832627

01:01:09.271 --> 01:01:12.694 those cells as cells that need to

NOTE Confidence: 0.84832627

01:01:12.694 --> 01:01:15.479 be illuminated by the immune cells.

NOTE Confidence: 0.84832627

01:01:15.480 --> 01:01:17.930 Um, so I do think there's promise.

NOTE Confidence: 0.84832627

01:01:17.930 --> 01:01:19.954 Other areas, of course.

NOTE Confidence: 0.84832627

01:01:19.954 --> 01:01:23.676 Um, that are of interest are even,

NOTE Confidence: 0.84832627

01:01:23.680 --> 01:01:26.896 you know, Speaking of HPV vaccines,

NOTE Confidence: 0.84832627

01:01:26.900 --> 01:01:28.514 other cancer vaccines.

NOTE Confidence: 0.84832627

01:01:28.514 --> 01:01:29.590 So potentially.

NOTE Confidence: 0.84832627

01:01:29.590 --> 01:01:30.510 I mean,

NOTE Confidence: 0.84832627

01:01:30.510 --> 01:01:33.730 I think right now everyone has is

NOTE Confidence: 0.84832627

01:01:33.730 --> 01:01:37.090 more educated than we could ever

NOTE Confidence: 0.84832627

01:01:37.090 --> 01:01:40.575 imagine about M RNA vaccines which

NOTE Confidence: 0.84832627

01:01:40.575 --> 01:01:44.085 are being deployed to combat covid.

NOTE Confidence: 0.84832627

01:01:44.090 --> 01:01:47.723 So it's a new technology of vaccination

NOTE Confidence: 0.84832627

01:01:47.723 --> 01:01:50.060 which definitely has promise.

NOTE Confidence: 0.84832627

01:01:50.060 --> 01:01:52.750 For cancer and personalized cancer

NOTE Confidence: 0.84832627

01:01:52.750 --> 01:01:55.918 vaccines as well, so you know,

NOTE Confidence: 0.84832627

01:01:55.918 --> 01:01:58.498 basically stimulating the the natural

NOTE Confidence: 0.84832627

01:01:58.498 --> 01:02:01.282 immune response to recognize abnormal

NOTE Confidence: 0.84832627

01:02:01.282 --> 01:02:04.067 proteins expressed by cancer cells.

NOTE Confidence: 0.84832627

01:02:04.070 --> 01:02:07.430 So other areas of immunotherapy to

NOTE Confidence: 0.84832627

01:02:07.430 --> 01:02:10.539 include things like car T cells.

NOTE Confidence: 0.84832627

01:02:10.540 --> 01:02:13.240 So basically expanding a person's

NOTE Confidence: 0.84832627

01:02:13.240 --> 01:02:17.050 own T cells that can recognize.

NOTE Confidence: 0.84832627

01:02:17.050 --> 01:02:19.140 Tumor antigens or tumor neoantigens.

NOTE Confidence: 0.84832627

01:02:19.140 --> 01:02:23.310 So I do believe there's a lot on the horizon,

NOTE Confidence: 0.84832627

01:02:23.310 --> 01:02:25.390 and these advances are being

NOTE Confidence: 0.84832627

01:02:25.390 --> 01:02:26.638 made possible by.

NOTE Confidence: 0.8780991

01:02:28.840 --> 01:02:30.148 Much increased understanding

NOTE Confidence: 0.8780991

01:02:30.148 --> 01:02:32.328 of how these cancers develop,

NOTE Confidence: 0.8780991

01:02:32.330 --> 01:02:34.840 as well as new technologies

NOTE Confidence: 0.8780991

01:02:34.840 --> 01:02:38.030 that make it more efficient to

NOTE Confidence: 0.8780991

01:02:38.030 --> 01:02:40.366 to consider these modalities.

NOTE Confidence: 0.8780991

01:02:40.370 --> 01:02:42.872 So yes, I'll pause there for a second and

NOTE Confidence: 0.8780991

01:02:42.872 --> 01:02:45.489 we I see there's a few other questions.

NOTE Confidence: 0.8780991

01:02:45.490 --> 01:02:46.995 And then I think Cynthia

NOTE Confidence: 0.8780991

01:02:46.995 --> 01:02:48.500 had a question as well.

NOTE Confidence: 0.8651248

01:02:50.510 --> 01:02:52.990 It's in did you want to go ahead

NOTE Confidence: 0.8651248

01:02:52.990 --> 01:02:53.920 with your question?

NOTE Confidence: 0.8651248

01:02:53.920 --> 01:02:55.160 Can you hear me?

NOTE Confidence: 0.8651248

01:02:55.160 --> 01:02:56.400 We can oh wonderful.

NOTE Confidence: 0.8651248

01:02:56.400 --> 01:02:57.950 Thank you so much doctors.

NOTE Confidence: 0.8651248

01:02:57.950 --> 01:02:59.810 This has been so very informative.

NOTE Confidence: 0.8651248

01:02:59.810 --> 01:03:01.980 I was asking the question about using

NOTE Confidence: 0.8651248

01:03:01.980 --> 01:03:04.150 birth control pills and not for myself.

NOTE Confidence: 0.8651248

01:03:04.150 --> 01:03:06.630 I'm 67. That ship has sailed but as

NOTE Confidence: 0.8651248

01:03:06.630 --> 01:03:08.987 I say I had breast cancer in both

99

NOTE Confidence: 0.8651248

01:03:08.987 --> 01:03:11.290 breasts at age 52 an my I'm concerned

NOTE Confidence: 0.8651248

01:03:11.290 --> 01:03:13.754 about my 32 year old daughter Ann.

NOTE Confidence: 0.8651248

01:03:13.760 --> 01:03:15.930 My 35 year old daughter in law

NOTE Confidence: 0.8651248

01:03:15.930 --> 01:03:17.790 who's also her mother had breast

NOTE Confidence: 0.8651248

01:03:17.790 --> 01:03:19.650 cancer so when I heard about

NOTE Confidence: 0.8651248

01:03:19.650 --> 01:03:21.263 the birth control pills helping.

NOTE Confidence: 0.8651248

01:03:21.263 --> 01:03:23.503 The health of those two women.

NOTE Confidence: 0.8651248

01:03:23.503 --> 01:03:25.750 That's where my ears turned on.

NOTE Confidence: 0.8651248

01:03:25.750 --> 01:03:28.353 So is that the kind of information

NOTE Confidence: 0.8651248

01:03:28.353 --> 01:03:30.208 they should be talking to

NOTE Confidence: 0.8651248

01:03:30.208 --> 01:03:31.360 their gynecologists about?

NOTE Confidence: 0.8762509

01:03:31.930 --> 01:03:32.954 Yeah, yeah, you know,

NOTE Confidence: 0.8762509

01:03:32.954 --> 01:03:34.490 sending that alone is worth while.

NOTE Confidence: 0.8762509

01:03:34.490 --> 01:03:36.542 This one hour if you if this is what

NOTE Confidence: 0.8762509

01:03:36.542 --> 01:03:38.839 you heard and you're going to tell you,

NOTE Confidence: 0.8762509

01:03:38.840 --> 01:03:39.860 tell your daughter it's

NOTE Confidence: 0.8762509

01:03:39.860 --> 01:03:40.625 absolutely so thrilled.

NOTE Confidence: 0.8762509

01:03:40.630 --> 01:03:43.738 Thank you so so much. You know,

NOTE Confidence: 0.8762509

01:03:43.738 --> 01:03:46.370 so I think important thing not that of

NOTE Confidence: 0.8762509

01:03:46.441 --> 01:03:48.905 course to go into into your history,

NOTE Confidence: 0.8762509

01:03:48.910 --> 01:03:50.932 but very important thing is really

NOTE Confidence: 0.8762509

01:03:50.932 --> 01:03:53.370 just to to like know your risk,

NOTE Confidence: 0.8762509

01:03:53.370 --> 01:03:55.428 you know, like understand your risks.

NOTE Confidence: 0.8762509

01:03:55.430 --> 01:03:57.266 So for a family history like

NOTE Confidence: 0.8762509

01:03:57.266 --> 01:03:59.330 yours or history like yours would

NOTE Confidence: 0.8762509

01:03:59.330 --> 01:04:01.255 be very important to understand.

NOTE Confidence: 0.8762509

01:04:01.260 --> 01:04:02.708 Again like genetic mutations,

NOTE Confidence: 0.8762509

01:04:02.708 --> 01:04:04.518 is there anything that predisposes

NOTE Confidence: 0.8762509

01:04:04.518 --> 01:04:06.750 you or your daughter to increase risk?

NOTE Confidence: 0.8762509

01:04:06.750 --> 01:04:09.904 And even if there was, you know like love,

NOTE Confidence: 0.8762509

01:04:09.904 --> 01:04:12.070 my women allowed my young patients

101

01:04:12.138 --> 01:04:14.010 whose mom said take care of.

01:04:14.010 --> 01:04:15.835 Always ask me while my

01:04:15.835 --> 01:04:17.295 mom had ovarian cancer,

01:04:17.300 --> 01:04:19.596 my mom had breast cancer or you

01:04:19.596 --> 01:04:22.408 know I have a BRACHA gene mutation.

01:04:22.410 --> 01:04:24.540 Does that mean that I shouldn't

01:04:24.540 --> 01:04:26.420 be taking birth control pills,

01:04:26.420 --> 01:04:27.880 but it's the opposite.

01:04:27.880 --> 01:04:29.340 It's On the contrary.

01:04:29.340 --> 01:04:32.260 If the only time not to take it is if

01:04:32.339 --> 01:04:35.177 the woman herself has breast cancer,

01:04:35.180 --> 01:04:37.352 but the mom having breast cancer

01:04:37.352 --> 01:04:39.235 or even having Braca mutation

01:04:39.235 --> 01:04:41.748 herself is the reason to take it,

01:04:41.750 --> 01:04:44.018 not not to take it because.

01:04:44.020 --> 01:04:46.225 Even for those women who have broken

NOTE Confidence: 0.8762509

01:04:46.225 --> 01:04:48.301 mutation and they have a significantly

NOTE Confidence: 0.8762509

01:04:48.301 --> 01:04:50.086 higher risk of being cancer,

NOTE Confidence: 0.8762509

01:04:50.090 --> 01:04:52.449 their risk also would decrease by 50%.

NOTE Confidence: 0.8762509

01:04:52.450 --> 01:04:55.812 So if somebody had a risk of 20% and they

NOTE Confidence: 0.8762509

01:04:55.812 --> 01:04:58.164 take birth control pills for five years,

NOTE Confidence: 0.8762509

01:04:58.170 --> 01:05:00.529 the risk will go down to 10%.

NOTE Confidence: 0.8762509

01:05:00.530 --> 01:05:04.100 You know, it's it's it's.

NOTE Confidence: 0.8762509

01:05:04.100 --> 01:05:05.940 Its respective respective decrease so

NOTE Confidence: 0.8762509

01:05:05.940 --> 01:05:08.300 thank you for your question but yes,

NOTE Confidence: 0.8762509

01:05:08.300 --> 01:05:10.652 you know the important thing is to

NOTE Confidence: 0.8762509

01:05:10.652 --> 01:05:12.802 know genetics to make sure that

NOTE Confidence: 0.8762509

01:05:12.802 --> 01:05:15.294 they're not at risk for something else,

NOTE Confidence: 0.8762509

01:05:15.300 --> 01:05:17.897 but that is not a contraindication on

NOTE Confidence: 0.8762509

01:05:17.897 --> 01:05:20.379 country that's even stronger indication.

NOTE Confidence: 0.8762509

01:05:20.380 --> 01:05:21.998 Thank you Lori.

NOTE Confidence: 0.8762509

01:05:21.998 --> 01:05:24.150 Can you see the

NOTE Confidence: 0.8057423

01:05:24.150 --> 01:05:26.840 question over there? Yes, yes.

NOTE Confidence: 0.8057423

01:05:26.840 --> 01:05:30.312 I I see question uh regarding HPV

NOTE Confidence: 0.8057423

01:05:30.312 --> 01:05:33.502 vaccination and yes one of the

NOTE Confidence: 0.8057423

01:05:33.502 --> 01:05:36.172 advances has been the expanded

NOTE Confidence: 0.8057423

01:05:36.172 --> 01:05:39.208 eligibility for getting HPV vaccine.

NOTE Confidence: 0.8057423

01:05:39.210 --> 01:05:43.802 So currently HPV vaccine Gardasil 9 is FDA

NOTE Confidence: 0.8057423

01:05:43.802 --> 01:05:47.819 indicated for ages 9 through 45 for boys,

NOTE Confidence: 0.8057423

01:05:47.820 --> 01:05:50.912 girls, men and women.

NOTE Confidence: 0.8057423

01:05:50.912 --> 01:05:54.777 And so most efficacious considered

NOTE Confidence: 0.8057423

01:05:54.777 --> 01:05:57.518 on time for four.

NOTE Confidence: 0.8667831

01:05:59.530 --> 01:06:02.626 Children to be vaccinated by age 11 to 12

NOTE Confidence: 0.8667831

01:06:02.626 --> 01:06:05.735 and there will be a very robust immune

NOTE Confidence: 0.8667831

01:06:05.735 --> 01:06:08.569 response and as a preventive vaccine.

NOTE Confidence: 0.8667831

01:06:08.570 --> 01:06:10.928 It prevents infection but has minimal

NOTE Confidence: 0.8667831

01:06:10.928 --> 01:06:12.500 effect on established infections.

NOTE Confidence: 0.8667831

01:06:12.500 --> 01:06:14.858 So that's why there's lesser benefit.

NOTE Confidence: 0.8667831

01:06:14.860 --> 01:06:17.471 As one gets older and there's a

NOTE Confidence: 0.8667831

01:06:17.471 --> 01:06:19.487 higher likelihood of having been

NOTE Confidence: 0.8667831

01:06:19.487 --> 01:06:21.537 exposed to common HPV types,

NOTE Confidence: 0.8667831

01:06:21.540 --> 01:06:23.505 given that there's nine different

NOTE Confidence: 0.8667831

01:06:23.505 --> 01:06:25.470 types in the current vaccine,

NOTE Confidence: 0.8667831

01:06:25.470 --> 01:06:27.978 you know there is still probably

NOTE Confidence: 0.8667831

01:06:27.978 --> 01:06:30.915 some benefit in many adults who have

NOTE Confidence: 0.8667831

01:06:30.915 --> 01:06:33.673 not had a chance to be vaccinated.

NOTE Confidence: 0.8667831

01:06:33.680 --> 01:06:36.270 So it's an individualized thing I would.

NOTE Confidence: 0.8667831

01:06:36.270 --> 01:06:38.544 I would suggest speaking with ones

NOTE Confidence: 0.8667831

01:06:38.544 --> 01:06:40.709 physician about the pros and cons,

NOTE Confidence: 0.8667831

01:06:40.710 --> 01:06:42.560 but definitely is a consideration

NOTE Confidence: 0.8667831

01:06:42.560 --> 01:06:44.410 for both men and women.

NOTE Confidence: 0.8667831

01:06:44.410 --> 01:06:47.680 Since you know many people.

NOTE Confidence: 0.8667831

01:06:47.680 --> 01:06:50.650 Of of the older age may want to have

NOTE Confidence: 0.8667831

01:06:50.650 --> 01:06:53.132 catchup vaccination because there was

NOTE Confidence: 0.8667831

01:06:53.132 --> 01:06:55.722 less availability or no availability

NOTE Confidence: 0.8667831

01:06:55.722 --> 01:06:58.943 at at during their their childhood

NOTE Confidence: 0.8667831

01:06:58.943 --> 01:07:01.043 and childhood vaccine schedule.

NOTE Confidence: 0.8667831

01:07:01.050 --> 01:07:04.590 So that's a great question.

NOTE Confidence: 0.8667831

01:07:04.590 --> 01:07:07.854 And and I think another question

NOTE Confidence: 0.8667831

01:07:07.854 --> 01:07:10.782 which Renee has addressed is

NOTE Confidence: 0.8667831

01:07:10.782 --> 01:07:13.406 eligibility for clinical trials.

NOTE Confidence: 0.8667831

01:07:13.410 --> 01:07:19.570 So Renee Place the Renee Goddard place the.

NOTE Confidence: 0.8667831

01:07:19.570 --> 01:07:24.268 Good websites to look for trials.

NOTE Confidence: 0.8667831

01:07:24.270 --> 01:07:26.148 Clinicaltrials.gov, for example,

NOTE Confidence: 0.8667831

01:07:26.148 --> 01:07:29.904 you can search by geographic location,

NOTE Confidence: 0.8667831

01:07:29.910 --> 01:07:31.166 cancer tie.

NOTE Confidence: 0.8667831

01:07:31.166 --> 01:07:37.770 You know what, what phase of clinical trial.

NOTE Confidence: 0.8667831

01:07:37.770 --> 01:07:38.702 And so,

NOTE Confidence: 0.8667831

01:07:38.702 --> 01:07:42.430 and then in terms of local clinical trials,

NOTE Confidence: 0.8667831

01:07:42.430 --> 01:07:45.636 Britney put the website up for the

NOTE Confidence: 0.8667831

01:07:45.636 --> 01:07:48.488 Yale Cancer Center website as well.

NOTE Confidence: 0.048152834

01:07:51.510 --> 01:07:52.380 Um?

NOTE Confidence: 0.89606816

01:07:55.060 --> 01:08:00.908 Let's see. I think there was a question from

NOTE Confidence: 0.89606816

01:08:00.908 --> 01:08:03.480 Audrey about genetic mutations in 2017.

NOTE Confidence: 0.8455192

01:08:05.850 --> 01:08:08.244 So you know it's a good question.

NOTE Confidence: 0.8455192

01:08:08.250 --> 01:08:09.622 We always, you know,

NOTE Confidence: 0.8455192

01:08:09.622 --> 01:08:12.020 I'm a huge proponent of saying yes,

NOTE Confidence: 0.8455192

01:08:12.020 --> 01:08:13.049 you know, retest.

NOTE Confidence: 0.8455192

01:08:13.049 --> 01:08:15.107 If it was longer than 2017,

NOTE Confidence: 0.8455192

01:08:15.110 --> 01:08:16.558 I would definitely retest.

NOTE Confidence: 0.8455192

01:08:16.558 --> 01:08:19.229 2017 was already the time where we did.

NOTE Confidence: 0.8455192

01:08:19.230 --> 01:08:21.966 We did this expanded to extend the panels.

NOTE Confidence: 0.8455192

01:08:21.970 --> 01:08:24.028 So you probably OK from 2017.

NOTE Confidence: 0.8455192

01:08:24.030 --> 01:08:25.398 But anytime you you're

NOTE Confidence: 0.8455192

01:08:25.398 --> 01:08:26.766 even thinking about it,

NOTE Confidence: 0.8455192

01:08:26.770 --> 01:08:30.433 I always just urge just reach out to them.

NOTE Confidence: 0.8455192

01:08:30.440 --> 01:08:31.980 Genetics counselor where you got

NOTE Confidence: 0.8455192

01:08:31.980 --> 01:08:34.186 it done and then just ask them

NOTE Confidence: 0.8455192

01:08:34.186 --> 01:08:35.998 you know they they routinely get

NOTE Confidence: 0.8455192

01:08:35.998 --> 01:08:38.038 these phone calls and they can just

NOTE Confidence: 0.8455192

01:08:38.038 --> 01:08:39.964 glance at yours and make sure that

NOTE Confidence: 0.8455192

01:08:39.964 --> 01:08:41.349 everything that everything was done

NOTE Confidence: 0.8455192

01:08:41.349 --> 01:08:42.700 and there's nothing additional.

NOTE Confidence: 0.8455192

01:08:42.700 --> 01:08:44.786 If you had it done before 2014,

NOTE Confidence: 0.8455192

01:08:44.790 --> 01:08:47.445 I always hate to redo it, but we don't.

NOTE Confidence: 0.8455192

01:08:47.445 --> 01:08:49.440 We have so much more now that

NOTE Confidence: 0.8455192

01:08:49.509 --> 01:08:50.769 than we did before,

NOTE Confidence: 0.8455192

01:08:50.770 --> 01:08:51.950 but to only 17.

NOTE Confidence: 0.8455192

01:08:51.950 --> 01:08:54.359 Most likely you are you up to date.

NOTE Confidence: 0.7976719

01:08:58.930 --> 01:09:00.706 Well, thank you so much everybody.

NOTE Confidence: 0.7976719

01:09:00.710 --> 01:09:03.142 We had such a wonderful time with you

NOTE Confidence: 0.7976719

01:09:03.142 --> 01:09:05.601 today and we hoped to do this again

NOTE Confidence: 0.7976719

01:09:05.601 --> 01:09:08.102 and please reach out to all all of us.

NOTE Confidence: 0.7976719

01:09:08.102 --> 01:09:10.200 I actually disposal in you so

NOTE Confidence: 0.7976719

01:09:10.200 --> 01:09:12.000 we always available to you.

NOTE Confidence: 0.7976719

01:09:12.000 --> 01:09:14.027 Thank you, thank you for having

NOTE Confidence: 0.7976719

01:09:14.027 --> 01:09:16.106 a good day and thank you so

NOTE Confidence: 0.7976719

01:09:16.106 --> 01:09:17.880 much for organizing. Thank

NOTE Confidence: 0.80464596

01:09:17.880 --> 01:09:20.295 you Daniela, Gloria. Nice meeting you nice

NOTE Confidence: 0.80464596

01:09:20.300 --> 01:09:21.684 to meet you too.

NOTE Confidence: 0.80464596

01:09:21.684 --> 01:09:23.418 Thank you so much ladies.

NOTE Confidence: 0.80464596

01:09:23.420 --> 01:09:25.152 Bye have a great day.

NOTE Confidence: 0.80464596

01:09:25.152 --> 01:09:26.533 Alright take care everyone.

NOTE Confidence: 0.80464596

01:09:26.533 --> 01:09:27.219 Thank you

NOTE Confidence: 0.80464596

01:09:27.220 --> 01:09:29.323 for joining us.