WEBVTT

NOTE duration:"01:39:56"

NOTE recognizability:0.852

NOTE language:en-us

NOTE Confidence: 0.90070841

00:00:00.000 --> 00:00:02.280 So I think we'll get started.

NOTE Confidence: 0.90070841

00:00:02.280 --> 00:00:03.700 My name is Claire Healy.

NOTE Confidence: 0.90070841

00:00:03.700 --> 00:00:05.470 I'm one of the genetic counseling

NOTE Confidence: 0.90070841

00:00:05.470 --> 00:00:07.105 managers and the smilow cancer

NOTE Confidence: 0.90070841

00:00:07.105 --> 00:00:08.717 genetics and prevention program.

NOTE Confidence: 0.90070841

00:00:08.720 --> 00:00:11.138 So, on behalf of the program,

NOTE Confidence: 0.90070841

00:00:11.140 --> 00:00:13.436 I'll welcome you all to The Tonight.

NOTE Confidence: 0.90070841

00:00:13.440 --> 00:00:15.670 Two of our seminar series,

NOTE Confidence: 0.90070841

00:00:15.670 --> 00:00:18.304 the title of tonight's seminar is

NOTE Confidence: 0.90070841

00:00:18.304 --> 00:00:20.060 implementing screening and prevention

NOTE Confidence: 0.90070841

00:00:20.124 --> 00:00:21.608 strategies for individuals identified

NOTE Confidence: 0.90070841

00:00:21.608 --> 00:00:24.330 to be at high risk for cancer.

NOTE Confidence: 0.90070841

00:00:24.330 --> 00:00:26.285 And a few housekeeping things

NOTE Confidence: 0.90070841

00:00:26.285 --> 00:00:27.849 before we get started.

NOTE Confidence: 0.90070841

00:00:27.850 --> 00:00:30.496 Please try and keep yourself muted and

NOTE Confidence: 0.90070841

00:00:30.496 --> 00:00:32.809 remain muted during all of the talks.

NOTE Confidence: 0.90070841

00:00:32.810 --> 00:00:34.730 We've saved time at the end of all

NOTE Confidence: 0.90070841

00:00:34.730 --> 00:00:36.619 of our lectures for questions,

NOTE Confidence: 0.90070841

00:00:36.620 --> 00:00:39.060 but feel free as we go through these

NOTE Confidence: 0.90070841

00:00:39.060 --> 00:00:41.578 lectures to enter questions into the Q&A.

NOTE Confidence: 0.90070841

00:00:41.578 --> 00:00:43.168 And tonight we're going to

NOTE Confidence: 0.90070841

00:00:43.168 --> 00:00:44.990 start with our first speaker,

NOTE Confidence: 0.90070841

00:00:44.990 --> 00:00:46.166 doctor Melanie Lynch.

NOTE Confidence: 0.90070841

00:00:46.166 --> 00:00:48.518 Doctor Lynch is director of breast

NOTE Confidence: 0.90070841

00:00:48.518 --> 00:00:50.624 surgery at the Smilow Cancer

NOTE Confidence: 0.90070841

00:00:50.624 --> 00:00:52.276 Hospital locations in Bridgeport,

NOTE Confidence: 0.90070841

00:00:52.280 --> 00:00:53.426 Fairfield and Trumbull,

NOTE Confidence: 0.90070841

00:00:53.426 --> 00:00:55.718 and the Norma from Breast Center.

NOTE Confidence: 0.90070841

00:00:55.720 --> 00:00:57.695 She's a board certified general

NOTE Confidence: 0.90070841

00:00:57.695 --> 00:00:59.275 surgeon and fellowship trained

NOTE Confidence: 0.90070841

00:00:59.275 --> 00:01:01.290 surgical oncologist and Doctor Lynch.

NOTE Confidence: 0.90070841

00:01:01.290 --> 00:01:02.290 Thank you for joining us.

NOTE Confidence: 0.926895752142857

00:01:03.030 --> 00:01:04.660 Thank you, thank you for

NOTE Confidence: 0.926895752142857

00:01:04.660 --> 00:01:05.964 the kind introduction and

NOTE Confidence: 0.926895752142857

00:01:05.964 --> 00:01:07.799 for letting me join tonight.

NOTE Confidence: 0.926895752142857

00:01:07.800 --> 00:01:09.420 I'm gonna share my screen.

NOTE Confidence: 0.88438386

00:01:13.510 --> 00:01:16.120 How's that work? Yep.

NOTE Confidence: 0.866873423333333

00:01:18.520 --> 00:01:20.938 There we go. How's that look?

NOTE Confidence: 0.866873423333333

00:01:20.940 --> 00:01:25.285 Perfect OK. So when we started

NOTE Confidence: 0.866873423333333

00:01:25.285 --> 00:01:26.694 discussion of breast cancer risk,

NOTE Confidence: 0.866873423333333

00:01:26.694 --> 00:01:28.410 we certainly have to talk about

NOTE Confidence: 0.866873423333333

00:01:28.467 --> 00:01:30.217 breast cancer incidence and looking

NOTE Confidence: 0.866873423333333

00:01:30.217 --> 00:01:32.293 at breast cancer incidence and how

NOTE Confidence: 0.866873423333333

00:01:32.293 --> 00:01:33.925 this has changed over the years.

NOTE Confidence: 0.866873423333333

00:01:33.930 --> 00:01:36.600 You can see how with increasing

NOTE Confidence: 0.866873423333333

00:01:36.600 --> 00:01:38.380 screening mammography or breast

NOTE Confidence: 0.866873423333333

00:01:38.459 --> 00:01:40.369 cancer incidents did go up.

NOTE Confidence: 0.866873423333333

00:01:40.370 --> 00:01:41.674 Our mortality though has

NOTE Confidence: 0.866873423333333

00:01:41.674 --> 00:01:42.978 continued to go down,

NOTE Confidence: 0.866873423333333

00:01:42.980 --> 00:01:45.213 and that's because most of the cancers

NOTE Confidence: 0.866873423333333

00:01:45.213 --> 00:01:47.083 that were identifying now in the

NOTE Confidence: 0.866873423333333

00:01:47.083 --> 00:01:48.787 earlier stages when they are curable.

NOTE Confidence: 0.866873423333333

00:01:48.790 --> 00:01:50.962 You'll notice in this timeline you

NOTE Confidence: 0.866873423333333

00:01:50.962 --> 00:01:53.304 see this peak here in the 1980s.

NOTE Confidence: 0.866873423333333

00:01:53.304 --> 00:01:54.960 This is when screening.

NOTE Confidence: 0.866873423333333

00:01:54.960 --> 00:01:56.940 Went up dramatically when our first

NOTE Confidence: 0.866873423333333

00:01:56.940 --> 00:01:59.109 lady was diagnosed with breast cancer.

NOTE Confidence: 0.866873423333333

00:01:59.110 --> 00:02:00.466 The other thing you're going to

NOTE Confidence: 0.866873423333333

00:02:00.466 --> 00:02:01.990 notice here is this dramatic dropoff

NOTE Confidence: 0.866873423333333

00:02:01.990 --> 00:02:03.430 and breast cancer incidents that

NOTE Confidence: 0.866873423333333

00:02:03.430 --> 00:02:05.203 happened in the early 2000s with

NOTE Confidence: 0.866873423333333

00:02:05.203 --> 00:02:06.643 the publication of the Women's

NOTE Confidence: 0.866873423333333

00:02:06.643 --> 00:02:08.026 Health Initiative trial that

NOTE Confidence: 0.866873423333333

00:02:08.026 --> 00:02:10.041 demonstrated a link between hormone

NOTE Confidence: 0.866873423333333

00:02:10.041 --> 00:02:12.304 replacement therapy at the time of

NOTE Confidence: 0.866873423333333

00:02:12.304 --> 00:02:13.949 menopause and breast cancer risk.

NOTE Confidence: 0.933771697777778

00:02:16.390 --> 00:02:17.775 When we think about what

NOTE Confidence: 0.933771697777778

00:02:17.775 --> 00:02:18.883 effects breast cancer risk,

NOTE Confidence: 0.933771697777778

00:02:18.890 --> 00:02:20.696 we know that there are a number

NOTE Confidence: 0.933771697777778

00:02:20.696 --> 00:02:22.324 of factors that we can control

NOTE Confidence: 0.933771697777778

00:02:22.324 --> 00:02:24.172 and there are a number of factors

NOTE Confidence: 0.933771697777778

00:02:24.229 --> 00:02:25.765 that are out of our control.

NOTE Confidence: 0.933771697777778

00:02:25.770 --> 00:02:28.110 We know that we can decrease

NOTE Confidence: 0.933771697777778

00:02:28.110 --> 00:02:30.356 risk by maintaining a healthy

NOTE Confidence: 0.933771697777778

00:02:30.356 --> 00:02:32.788 weight by exercising regularly.

NOTE Confidence: 0.933771697777778

00:02:32.790 --> 00:02:34.992 And by limiting the amount of

NOTE Confidence: 0.933771697777778

00:02:34.992 --> 00:02:37.180 alcohol that we drink per week,

NOTE Confidence: 0.933771697777778

00:02:37.180 --> 00:02:38.470 we also know that there's some

NOTE Confidence: 0.933771697777778

00:02:38.470 --> 00:02:39.710 things that we can't control,

NOTE Confidence: 0.933771697777778

00:02:39.710 --> 00:02:41.710 including exposure to ionizing

NOTE Confidence: 0.933771697777778

00:02:41.710 --> 00:02:44.210 radiation for treatment for cancer.

NOTE Confidence: 0.933771697777778

00:02:44.210 --> 00:02:46.478 When, especially at a young age,

NOTE Confidence: 0.933771697777778

00:02:46.480 --> 00:02:48.470 a family history of cancer,

NOTE Confidence: 0.933771697777778

00:02:48.470 --> 00:02:51.270 or an inherited genetic

NOTE Confidence: 0.933771697777778

00:02:51.270 --> 00:02:53.370 susceptibility to cancer.

NOTE Confidence: 0.933771697777778

00:02:53.370 --> 00:02:55.422 When we look at breast cancer

NOTE Confidence: 0.933771697777778

00:02:55.422 --> 00:02:56.790 and these risk factors,

NOTE Confidence: 0.933771697777778

00:02:56.790 --> 00:02:58.082 the risk is variable.

NOTE Confidence: 0.933771697777778

00:02:58.082 --> 00:03:00.381 We know that breast cancer risk is

NOTE Confidence: 0.933771697777778

00:03:00.381 --> 00:03:02.467 very closely related to age that women

NOTE Confidence: 0.933771697777778

00:03:02.467 --> 00:03:04.832 who are 70 years old or 10 times as

NOTE Confidence: 0.933771697777778

00:03:04.832 --> 00:03:06.572 likely to be diagnosed with breast

NOTE Confidence: 0.933771697777778

00:03:06.572 --> 00:03:08.576 cancer is someone in their 30s.

NOTE Confidence: 0.933771697777778

00:03:08.580 --> 00:03:10.582 We know that family history has a

NOTE Confidence: 0.933771697777778

00:03:10.582 --> 00:03:12.528 significant role in breast cancer risk,

NOTE Confidence: 0.933771697777778

00:03:12.530 --> 00:03:14.654 and it really depends on the

NOTE Confidence: 0.933771697777778

00:03:14.654 --> 00:03:16.070 number of affected relatives.

NOTE Confidence: 0.933771697777778

00:03:16.070 --> 00:03:17.742 Breast density also increases

NOTE Confidence: 0.933771697777778

00:03:17.742 --> 00:03:18.996 breast cancer risk.

NOTE Confidence: 0.933771697777778

00:03:19.000 --> 00:03:20.379 We're going to look at that in

NOTE Confidence: 0.933771697777778

00:03:20.379 --> 00:03:21.564 a minute hormone replacement

NOTE Confidence: 0.933771697777778

00:03:21.564 --> 00:03:23.524 therapy as we talked about.

NOTE Confidence: 0.933771697777778

00:03:23.530 --> 00:03:26.215 Therapeutic radiation obesity has a

NOTE Confidence: 0.933771697777778

00:03:26.215 --> 00:03:29.439 very significant role in breast cancer

NOTE Confidence: 0.933771697777778

00:03:29.439 --> 00:03:32.596 risk and asked us regular alcohol use.

NOTE Confidence: 0.933771697777778

00:03:32.600 --> 00:03:34.274 I get many questions about breast

NOTE Confidence: 0.933771697777778

00:03:34.274 --> 00:03:35.680 density and breast cancer risk,

NOTE Confidence: 0.933771697777778

00:03:35.680 --> 00:03:38.458 and here's an example of what

NOTE Confidence: 0.933771697777778

00:03:38.458 --> 00:03:40.310 breast density looks like.

NOTE Confidence: 0.933771697777778

00:03:40.310 --> 00:03:42.872 This level one is an entirely

NOTE Confidence: 0.933771697777778

00:03:42.872 --> 00:03:44.153 fat replaced breast,

NOTE Confidence: 0.933771697777778

00:03:44.160 --> 00:03:46.188 which is more easily screened and

NOTE Confidence: 0.933771697777778

00:03:46.188 --> 00:03:48.284 is associated with a lower risk

NOTE Confidence: 0.933771697777778

00:03:48.284 --> 00:03:50.440 of breast cancer as opposed to an

NOTE Confidence: 0.933771697777778

00:03:50.440 --> 00:03:51.865 extremely dense breast which lowers

NOTE Confidence: 0.933771697777778

00:03:51.865 --> 00:03:53.231 the sensitivity of mammography

NOTE Confidence: 0.933771697777778

00:03:53.231 --> 00:03:55.277 but is also associated with an

NOTE Confidence: 0.933771697777778

00:03:55.277 --> 00:03:56.849 increased risk for breast cancer.

NOTE Confidence: 0.934777958461538

00:03:59.390 --> 00:04:01.840 When we think about breast cancer and

NOTE Confidence: 0.934777958461538

00:04:01.840 --> 00:04:04.000 inherited risk related to family history,

NOTE Confidence: 0.934777958461538

00:04:04.000 --> 00:04:06.367 we know that if we look at the total

NOTE Confidence: 0.934777958461538

00:04:06.367 --> 00:04:08.645 number of breast cancer cases 70 to 80%

NOTE Confidence: 0.934777958461538

00:04:08.650 --> 00:04:11.128 of them are unrelated to family history.

NOTE Confidence: 0.934777958461538

00:04:11.130 --> 00:04:12.790 Where a family history is

NOTE Confidence: 0.934777958461538

00:04:12.790 --> 00:04:15.394 associated with up to 20% of cases,

NOTE Confidence: 0.934777958461538

00:04:15.394 --> 00:04:18.940 and of those cases we know hereditary breast

NOTE Confidence: 0.934777958461538

00:04:18.940 --> 00:04:21.778 cancers make up five to 10% of the total.

NOTE Confidence: 0.953197208888889

00:04:24.830 --> 00:04:26.450 So how do we estimate

NOTE Confidence: 0.953197208888889

00:04:26.450 --> 00:04:27.746 individual breast cancer risk?

NOTE Confidence: 0.953197208888889

00:04:27.750 --> 00:04:31.390 There are a number of statistical models.

NOTE Confidence: 0.953197208888889

00:04:31.390 --> 00:04:33.400 And I think we're probably all

NOTE Confidence: 0.953197208888889

00:04:33.400 --> 00:04:35.620 familiar of heard the quote that

NOTE Confidence: 0.953197208888889

00:04:35.620 --> 00:04:37.645 all statistical models are wrong,

NOTE Confidence: 0.953197208888889

00:04:37.650 --> 00:04:39.134 but some are useful.

NOTE Confidence: 0.953197208888889

00:04:39.134 --> 00:04:41.890 And here's one that is particularly useful.

NOTE Confidence: 0.953197208888889

00:04:41.890 --> 00:04:44.620 This is called the Tyra Kuzyk model

NOTE Confidence: 0.953197208888889

00:04:44.620 --> 00:04:46.534 that takes into account some of

NOTE Confidence: 0.953197208888889

00:04:46.534 --> 00:04:48.709 the things we just talked about.

NOTE Confidence: 0.953197208888889

00:04:48.710 --> 00:04:53.150 Age agent men are key, height and weight.

NOTE Confidence: 0.953197208888889

00:04:53.150 --> 00:04:54.968 Childbirth, previous biopsies

NOTE Confidence: 0.953197208888889

00:04:54.968 --> 00:04:56.786 and their results,

NOTE Confidence: 0.953197208888889

00:04:56.790 --> 00:04:59.850 breast density and family history.

NOTE Confidence: 0.953197208888889

00:04:59.850 --> 00:05:02.515 We can enter these into this model

NOTE Confidence: 0.953197208888889

00:05:02.515 --> 00:05:04.840 and then calculated breast cancer

NOTE Confidence: 0.953197208888889

00:05:04.840 --> 00:05:08.469 risk for individual patients.

NOTE Confidence: 0.953197208888889

00:05:08.470 --> 00:05:10.275 We have guidelines for management

NOTE Confidence: 0.953197208888889

00:05:10.275 --> 00:05:12.472 patients who are considered at increased

NOTE Confidence: 0.953197208888889

00:05:12.472 --> 00:05:14.761 risk for breast cancer and that has

NOTE Confidence: 0.953197208888889

00:05:14.761 --> 00:05:16.950 been defined by expert opinion at a

NOTE Confidence: 0.953197208888889

00:05:16.950 --> 00:05:18.795 lifetime risk of greater than 20%

NOTE Confidence: 0.953197208888889

00:05:18.795 --> 00:05:21.420 for women who fall into this group,

NOTE Confidence: 0.953197208888889

00:05:21.420 --> 00:05:24.620 we might consider advanced screening,

NOTE Confidence: 0.953197208888889

00:05:24.620 --> 00:05:26.740 which would include both

NOTE Confidence: 0.953197208888889

00:05:26.740 --> 00:05:28.860 mammogram and breast MRI.

NOTE Confidence: 0.953197208888889

00:05:28.860 --> 00:05:31.058 We use elements from the family history

NOTE Confidence: 0.953197208888889

00:05:31.058 --> 00:05:32.689 and the patient's personal history

NOTE Confidence: 0.953197208888889

00:05:32.689 --> 00:05:34.887 to decide the age to begin screening

NOTE Confidence: 0.953197208888889

00:05:34.887 --> 00:05:36.651 and most guidelines suggest that

NOTE Confidence: 0.953197208888889

00:05:36.651 --> 00:05:38.733 we stop screening within 10 years.

NOTE Confidence: 0.953197208888889

00:05:38.740 --> 00:05:41.390 At the end of life.

NOTE Confidence: 0.953197208888889

00:05:41.390 --> 00:05:43.682 I just wanted to share this

NOTE Confidence: 0.953197208888889

00:05:43.682 --> 00:05:46.077 picture of a screening breast MRI

NOTE Confidence: 0.953197208888889

00:05:46.077 --> 00:05:48.429 from a recent patient of mine.

NOTE Confidence: 0.953197208888889

00:05:48.430 --> 00:05:50.510 This was a patient who in her mid

NOTE Confidence: 0.953197208888889

00:05:50.510 --> 00:05:52.381 30s was diagnosed with pancreatic

NOTE Confidence: 0.953197208888889

00:05:52.381 --> 00:05:54.085 cancer and treated successfully

NOTE Confidence: 0.953197208888889

00:05:54.085 --> 00:05:56.640 and was a long term survivor.

NOTE Confidence: 0.953197208888889

00:05:56.640 --> 00:05:58.850 She had been undergoing routine

NOTE Confidence: 0.953197208888889

00:05:58.850 --> 00:06:00.618 screening when her endocrinologist

NOTE Confidence: 0.953197208888889

00:06:00.618 --> 00:06:02.289 suggest that she get genetic

NOTE Confidence: 0.953197208888889

00:06:02.289 --> 00:06:04.389 testing and she was found to have

NOTE Confidence: 0.953197208888889

00:06:04.389 --> 00:06:06.075 a mutation in the BRCA gene.

NOTE Confidence: 0.953197208888889

00:06:06.080 --> 00:06:07.872 She came to see me and we got

NOTE Confidence: 0.953197208888889

00:06:07.872 --> 00:06:09.717 a breast MRI for screening and

NOTE Confidence: 0.953197208888889

00:06:09.717 --> 00:06:11.387 despite having a very normal.

NOTE Confidence: 0.953197208888889

00:06:11.390 --> 00:06:12.360 Looking mammogram,

NOTE Confidence: 0.953197208888889

00:06:12.360 --> 00:06:15.755 she had this area on her of

NOTE Confidence: 0.953197208888889

00:06:15.755 --> 00:06:17.999 enhancement on her breast MRI

NOTE Confidence: 0.953197208888889

00:06:17.999 --> 00:06:20.507 that was in occult breast cancer

NOTE Confidence: 0.953197208888889

00:06:20.510 --> 00:06:23.806 and so this is an example of how

NOTE Confidence: 0.953197208888889

00:06:23.806 --> 00:06:26.154 screening MRI adds to our ability

NOTE Confidence: 0.953197208888889

00:06:26.154 --> 00:06:28.059 to screen high risk patients.

NOTE Confidence: 0.87612866

00:06:30.400 --> 00:06:32.004 So my professional society,

NOTE Confidence: 0.87612866

00:06:32.004 --> 00:06:34.410 which is the American Society of

NOTE Confidence: 0.87612866

00:06:34.480 --> 00:06:36.543 Breast Surgeons, along with the

NOTE Confidence: 0.87612866

00:06:36.543 --> 00:06:37.867 American College of Radiologists,

NOTE Confidence: 0.87612866

00:06:37.870 --> 00:06:39.920 have now moved towards a

NOTE Confidence: 0.87612866

00:06:39.920 --> 00:06:41.560 model of recommending risk

NOTE Confidence: 0.87612866

00:06:41.560 --> 00:06:43.778 based breast cancer screening,

NOTE Confidence: 0.87612866

00:06:43.780 --> 00:06:46.456 which includes a risk assessment for

NOTE Confidence: 0.87612866

00:06:46.456 --> 00:06:49.821 all women at by the age of 30 to

NOTE Confidence: 0.87612866

00:06:49.821 --> 00:06:52.047 determine if you're at average risk

NOTE Confidence: 0.87612866

00:06:52.047 --> 00:06:54.750 or higher than average risk and how

NOTE Confidence: 0.87612866

00:06:54.750 --> 00:06:56.790 women should be screened based on

NOTE Confidence: 0.87612866

00:06:56.790 --> 00:06:58.469 their individual risk assessment.

NOTE Confidence: 0.87612866

00:06:58.470 --> 00:06:59.934 It's a move from.

NOTE Confidence: 0.87612866

00:06:59.934 --> 00:07:02.920 Age based screening to risk based screening.

NOTE Confidence: 0.87612866

00:07:02.920 --> 00:07:04.792 And at women who are higher

NOTE Confidence: 0.87612866

00:07:04.792 --> 00:07:05.728 than average risk,

NOTE Confidence: 0.87612866

00:07:05.730 --> 00:07:08.214 who recommend starting with

NOTE Confidence: 0.87612866

00:07:08.214 --> 00:07:11.319 a mammogram and breast MRI,

NOTE Confidence: 0.87612866

00:07:11.320 --> 00:07:13.616 the MRI can start at a younger

NOTE Confidence: 0.87612866

00:07:13.616 --> 00:07:15.510 age at 25 if needed.

NOTE Confidence: 0.87612866

00:07:15.510 --> 00:07:17.238 If the family history suggests that,

NOTE Confidence: 0.87612866

00:07:17.240 --> 00:07:19.625 or if there's a genetic

NOTE Confidence: 0.87612866

00:07:19.625 --> 00:07:21.533 syndrome that suggests that.

NOTE Confidence: 0.87612866

00:07:21.540 --> 00:07:23.416 And also that women with a prior

NOTE Confidence: 0.87612866

00:07:23.416 --> 00:07:25.313 history of breast cancer at a young

NOTE Confidence: 0.87612866

00:07:25.313 --> 00:07:27.194 age and with non dense breasts versus

NOTE Confidence: 0.87612866

00:07:27.194 --> 00:07:28.868 dense breasts that we might add

NOTE Confidence: 0.87612866

00:07:28.868 --> 00:07:30.838 MRI for women with dense breasts.

NOTE Confidence: 0.895820547894737

00:07:33.950 --> 00:07:36.869 So we know that genetics plays a

NOTE Confidence: 0.895820547894737

00:07:36.869 --> 00:07:40.183 role in breast cancer risk and that

NOTE Confidence: 0.895820547894737

00:07:40.183 --> 00:07:42.928 of those cases where genetics where

NOTE Confidence: 0.895820547894737

00:07:42.928 --> 00:07:44.596 there's a mutation in a breast

NOTE Confidence: 0.895820547894737

00:07:44.596 --> 00:07:46.784 cancer gene that the majority of the

NOTE Confidence: 0.895820547894737

00:07:46.784 --> 00:07:48.409 mutations that we identify associated

NOTE Confidence: 0.895820547894737

00:07:48.409 --> 00:07:50.260 with breast cancer are two genes,

NOTE Confidence: 0.895820547894737

00:07:50.260 --> 00:07:52.184 BRCA, one and two.

NOTE Confidence: 0.895820547894737

00:07:52.184 --> 00:07:54.589 Although there were several other

NOTE Confidence: 0.895820547894737

00:07:54.589 --> 00:07:56.394 genetic syndromes associated

NOTE Confidence: 0.895820547894737

00:07:56.394 --> 00:07:59.489 with increase breast cancer risk.

NOTE Confidence: 0.895820547894737

00:07:59.490 --> 00:08:01.188 When we look at those genes,

NOTE Confidence: 0.895820547894737

00:08:01.190 --> 00:08:04.390 we and make a plan for both screening

NOTE Confidence: 0.895820547894737

00:08:04.390 --> 00:08:07.307 and prevention for patients with genetic

NOTE Confidence: 0.895820547894737

00:08:07.307 --> 00:08:10.670 syndromes we consider how penetrant gene is.

NOTE Confidence: 0.895820547894737

00:08:10.670 --> 00:08:13.232 How likely is a patient to develop

NOTE Confidence: 0.895820547894737

00:08:13.232 --> 00:08:16.010 cancer if they have a mutation in that

NOTE Confidence: 0.895820547894737

00:08:16.010 --> 00:08:19.260 gene and so for the very high penetrance.

NOTE Confidence: 0.895820547894737

00:08:19.260 --> 00:08:20.680 Genes where there's a very

NOTE Confidence: 0.895820547894737

00:08:20.680 --> 00:08:21.816 high risk of cancer,

NOTE Confidence: 0.895820547894737

00:08:21.820 --> 00:08:24.672 we find those to be less common and

NOTE Confidence: 0.895820547894737

00:08:24.672 --> 00:08:27.486 those genes include BRCA one and two,

NOTE Confidence: 0.895820547894737

00:08:27.490 --> 00:08:29.550 which are more commonly known.

NOTE Confidence: 0.895820547894737

00:08:29.550 --> 00:08:31.755 Other genetic syndromes,

NOTE Confidence: 0.895820547894737

00:08:31.755 --> 00:08:34.182 including P53 and P-10.

NOTE Confidence: 0.895820547894737

00:08:34.182 --> 00:08:35.310 The modern,

NOTE Confidence: 0.895820547894737

00:08:35.310 --> 00:08:37.662 the moderate penetrance genes ATM palb

NOTE Confidence: 0.895820547894737

00:08:37.662 --> 00:08:41.334 2 and check two have a lower risk of

NOTE Confidence: 0.895820547894737

00:08:41.334 --> 00:08:43.364 breast cancer associated with them,

NOTE Confidence: 0.895820547894737

00:08:43.370 --> 00:08:45.862 but they're much more common in the

NOTE Confidence: 0.895820547894737

00:08:45.862 --> 00:08:48.480 population and I just saw a very busy

NOTE Confidence: 0.895820547894737

00:08:48.480 --> 00:08:50.793 clinic today and I saw examples of

NOTE Confidence: 0.895820547894737

00:08:50.793 --> 00:08:53.103 patients with all three of those.

NOTE Confidence: 0.895820547894737

00:08:53.110 --> 00:08:53.800 Mutations.

NOTE Confidence: 0.95199352375

00:08:56.800 --> 00:08:59.796 So when we talk about breast cancer

NOTE Confidence: 0.95199352375

00:08:59.796 --> 00:09:01.950 prevention, we can identify a group

NOTE Confidence: 0.95199352375

00:09:01.950 --> 00:09:04.208 of women where we might consider

NOTE Confidence: 0.95199352375

00:09:04.208 --> 00:09:06.513 treatment to help reduce their

NOTE Confidence: 0.95199352375

00:09:06.513 --> 00:09:08.950 lifetime risk of breast cancer.

NOTE Confidence: 0.95199352375

00:09:08.950 --> 00:09:11.944 The chemo prevention criteria that are

NOTE Confidence: 0.95199352375

00:09:11.944 --> 00:09:14.304 commonly accepted include women who

NOTE Confidence: 0.95199352375

00:09:14.304 --> 00:09:16.932 are older than age 35 who have a life

NOTE Confidence: 0.95199352375

00:09:17.007 --> 00:09:19.562 expectancy of at least ten years and

NOTE Confidence: 0.95199352375

00:09:19.562 --> 00:09:22.426 have one of these high risk factors.

NOTE Confidence: 0.95199352375

00:09:22.430 --> 00:09:24.950 We talked about thoracic radiation

NOTE Confidence: 0.95199352375

00:09:24.950 --> 00:09:27.388 for treatment, especially if you're.

NOTE Confidence: 0.95199352375

00:09:27.388 --> 00:09:30.244 Young, A history of lobular carcinoma

NOTE Confidence: 0.95199352375

00:09:30.244 --> 00:09:33.198 Insight 2A predicted five year cancer risk.

NOTE Confidence: 0.95199352375

00:09:33.200 --> 00:09:35.432 We looked at one model called the GAIL model.

NOTE Confidence: 0.95199352375

00:09:35.440 --> 00:09:37.522 There are called the tire acoustic

NOTE Confidence: 0.95199352375

00:09:37.522 --> 00:09:38.216 model earlier.

NOTE Confidence: 0.95199352375

00:09:38.220 --> 00:09:39.540 There's also the GAIL model,

NOTE Confidence: 0.95199352375

00:09:39.540 --> 00:09:42.108 which is predictive of five year

NOTE Confidence: 0.95199352375

00:09:42.108 --> 00:09:44.282 cancer risk or any woman who

NOTE Confidence: 0.95199352375

00:09:44.282 --> 00:09:46.250 has a biopsy that shows atypical

NOTE Confidence: 0.95199352375

00:09:46.320 --> 00:09:48.328 cells or atypical hyperplasia.

NOTE Confidence: 0.945941082857143

00:09:50.910 --> 00:09:52.506 As we start to talk about prevention,

NOTE Confidence: 0.945941082857143

00:09:52.510 --> 00:09:54.170 I just wanted to clarify

NOTE Confidence: 0.945941082857143

00:09:54.170 --> 00:09:55.166 a couple definitions.

NOTE Confidence: 0.945941082857143

00:09:55.170 --> 00:09:57.310 The first one is Chemoprevention,

NOTE Confidence: 0.945941082857143

00:09:57.310 --> 00:09:58.648 which is the use of drugs,

NOTE Confidence: 0.945941082857143

00:09:58.650 --> 00:10:01.098 vitamins or other agents to reduce

NOTE Confidence: 0.945941082857143

00:10:01.098 --> 00:10:03.820 cancer risk and to delay the

NOTE Confidence: 0.945941082857143

00:10:03.820 --> 00:10:06.350 development or recurrence of cancer.

NOTE Confidence: 0.945941082857143

00:10:06.350 --> 00:10:07.920 We have two medications that

NOTE Confidence: 0.945941082857143

00:10:07.920 --> 00:10:09.490 we types of medications we

NOTE Confidence: 0.945941082857143

00:10:09.554 --> 00:10:11.498 currently use for chemoprevention.

NOTE Confidence: 0.945941082857143

00:10:11.500 --> 00:10:13.292 The first is selective

NOTE Confidence: 0.945941082857143

00:10:13.292 --> 00:10:14.636 estrogen response modifiers.

NOTE Confidence: 0.945941082857143

00:10:14.640 --> 00:10:16.728 This is a drug you might have heard

NOTE Confidence: 0.945941082857143

00:10:16.728 --> 00:10:18.710 of called tamoxifen or Raloxifene.

NOTE Confidence: 0.945941082857143

00:10:18.710 --> 00:10:22.016 These block estrogen at its receptor.

NOTE Confidence: 0.945941082857143

00:10:22.020 --> 00:10:23.892 The other class of drugs we

NOTE Confidence: 0.945941082857143

00:10:23.892 --> 00:10:26.021 might use or called the aromat

NOTE Confidence: 0.945941082857143

00:10:26.021 --> 00:10:28.046 ACE inhibitors and these reduce

NOTE Confidence: 0.945941082857143

00:10:28.046 --> 00:10:29.930 estrogen levels in the body.

NOTE Confidence: 0.945941082857143

00:10:29.930 --> 00:10:32.828 For women who are post menopausal by

NOTE Confidence: 0.945941082857143

00:10:32.828 --> 00:10:35.509 blocking an enzyme called aromat ace,

NOTE Confidence: 0.945941082857143

00:10:35.510 --> 00:10:38.373 this is a quick diagram that just

NOTE Confidence: 0.945941082857143

00:10:38.373 --> 00:10:40.524 shows the difference of tamoxifen

NOTE Confidence: 0.945941082857143

00:10:40.524 --> 00:10:43.068 would block the binding of estrogens

NOTE Confidence: 0.945941082857143

00:10:43.068 --> 00:10:45.658 to the receptor on the cells.

NOTE Confidence: 0.945941082857143

00:10:45.660 --> 00:10:47.975 The Aromat ace inhibitors block

NOTE Confidence: 0.945941082857143

00:10:47.975 --> 00:10:50.767 the production of estrogens by the

NOTE Confidence: 0.945941082857143

00:10:50.767 --> 00:10:53.137 peripheral fat cells in the body.

NOTE Confidence: 0.945941082857143

00:10:53.140 --> 00:10:54.810 Which is the primary source

NOTE Confidence: 0.945941082857143

00:10:54.810 --> 00:10:56.146 of estrogen after menopause?

NOTE Confidence: 0.854922897777778

00:10:58.810 --> 00:10:59.678 So there's been several

NOTE Confidence: 0.854922897777778

00:10:59.678 --> 00:11:00.763 studies that have been done.

NOTE Confidence: 0.854922897777778

00:11:00.770 --> 00:11:02.862 Looking at these medications

NOTE Confidence: 0.854922897777778

00:11:02.862 --> 00:11:04.954 for breast cancer prevention,

NOTE Confidence: 0.854922897777778

00:11:04.960 --> 00:11:06.380 these have been summarized

NOTE Confidence: 0.854922897777778

00:11:06.380 --> 00:11:08.510 in a meta analysis by EU.

NOTE Confidence: 0.854922897777778

00:11:08.510 --> 00:11:10.980 S. Public Health task force.

NOTE Confidence: 0.854922897777778

00:11:10.980 --> 00:11:12.900 It's kind of a busy slide,

NOTE Confidence: 0.854922897777778

00:11:12.900 --> 00:11:15.014 but you can see over here in

NOTE Confidence: 0.854922897777778

00:11:15.014 --> 00:11:16.862 this column that when you

NOTE Confidence: 0.854922897777778

00:11:16.862 --> 00:11:18.606 take these studies altogether,

NOTE Confidence: 0.854922897777778

00:11:18.610 --> 00:11:21.042 they basically favors treatment,

NOTE Confidence: 0.854922897777778

00:11:21.042 --> 00:11:24.082 showing that these medications are

NOTE Confidence: 0.854922897777778

00:11:24.082 --> 00:11:27.216 effective in reducing breast cancer risk.

NOTE Confidence: 0.890003596818182

00:11:29.830 --> 00:11:33.446 And there's a recent trial that we're all

NOTE Confidence: 0.890003596818182

00:11:33.446 --> 00:11:37.296 very excited about that looked at low dose

NOTE Confidence: 0.890003596818182

00:11:37.296 --> 00:11:40.460 tamoxifen for prevention of breast cancer.

NOTE Confidence: 0.890003596818182

00:11:40.460 --> 00:11:43.156 So many women who are increased risk for

NOTE Confidence: 0.890003596818182

00:11:43.156 --> 00:11:45.447 cancer where we recommend medical therapy

NOTE Confidence: 0.890003596818182

00:11:45.447 --> 00:11:48.213 will often have symptoms or side effects

NOTE Confidence: 0.890003596818182

00:11:48.213 --> 00:11:50.824 related to therapy that limits its use.

NOTE Confidence: 0.890003596818182

00:11:50.830 --> 00:11:52.706 The dose of tamoxifen that we use

NOTE Confidence: 0.890003596818182

00:11:52.706 --> 00:11:54.454 for treatment of cancer patients and

NOTE Confidence: 0.890003596818182

00:11:54.454 --> 00:11:56.519 that was used in the initial trials

NOTE Confidence: 0.890003596818182

00:11:56.577 --> 00:11:57.917 with 20 milligrams a day.

NOTE Confidence: 0.890003596818182

00:11:57.920 --> 00:11:59.698 The newest trial looked at a dose.

NOTE Confidence: 0.890003596818182

00:11:59.700 --> 00:12:01.700 Of five milligrams a day,

NOTE Confidence: 0.890003596818182

00:12:01.700 --> 00:12:04.528 and would that lower dose still be

NOTE Confidence: 0.890003596818182

00:12:04.528 --> 00:12:06.630 effective for cancer prevention?

NOTE Confidence: 0.890003596818182

00:12:06.630 --> 00:12:09.886 It was a randomized trial conducted at

NOTE Confidence: 0.890003596818182

00:12:09.886 --> 00:12:12.618 multiple sites that included 500 women

NOTE Confidence: 0.890003596818182

00:12:12.618 --> 00:12:15.621 who had a diagnosis of atypical abnormal

NOTE Confidence: 0.890003596818182

00:12:15.621 --> 00:12:18.656 cells on a biopsy or lobular carcinoma.

NOTE Confidence: 0.890003596818182

00:12:18.660 --> 00:12:19.450 Insight two,

NOTE Confidence: 0.890003596818182

00:12:19.450 --> 00:12:21.820 they were given 5 milligrams of

NOTE Confidence: 0.890003596818182

00:12:21.820 --> 00:12:24.099 tamoxifen a day for three years,

NOTE Confidence: 0.890003596818182

00:12:24.100 --> 00:12:25.597 or a placebo,

NOTE Confidence: 0.890003596818182

00:12:25.597 --> 00:12:29.790 and then they were followed for five years.

NOTE Confidence: 0.890003596818182

00:12:29.790 --> 00:12:31.666 Just a quick look at the data.

NOTE Confidence: 0.890003596818182

00:12:31.670 --> 00:12:34.155 If you look at the graphs here,

NOTE Confidence: 0.890003596818182

00:12:34.160 --> 00:12:37.688 these looked at the rates of breast cancer.

NOTE Confidence: 0.890003596818182

00:12:37.690 --> 00:12:40.360 Comparing the women who took placebo,

NOTE Confidence: 0.890003596818182

00:12:40.360 --> 00:12:42.740 which is the blue line to women

NOTE Confidence: 0.890003596818182

00:12:42.740 --> 00:12:43.760 who took tamoxifen,

NOTE Confidence: 0.890003596818182

00:12:43.760 --> 00:12:47.522 which is the red line and it showed that

NOTE Confidence: 0.890003596818182

00:12:47.522 --> 00:12:50.005 tamoxifen prevented about half of the

NOTE Confidence: 0.890003596818182

00:12:50.005 --> 00:12:53.250 episodes of breast cancer in these patients.

NOTE Confidence: 0.890003596818182

00:12:53.250 --> 00:12:53.964 Even better,

NOTE Confidence: 0.890003596818182

00:12:53.964 --> 00:12:55.749 if you look over here,

NOTE Confidence: 0.890003596818182

00:12:55.750 --> 00:12:58.432 it showed that of the adverse events

NOTE Confidence: 0.890003596818182

00:12:58.432 --> 00:13:00.568 that can be associated with tamoxifen,

NOTE Confidence: 0.890003596818182

00:13:00.570 --> 00:13:03.560 including a DVT or pulmonary

NOTE Confidence: 0.890003596818182

00:13:03.560 --> 00:13:06.625 embolism or uterine tumors that it

NOTE Confidence: 0.890003596818182

00:13:06.625 --> 00:13:09.649 appeared that this lower dose of

NOTE Confidence: 0.890003596818182

00:13:09.649 --> 00:13:12.415 tamoxifen was as safe as placebo.

NOTE Confidence: 0.890003596818182

00:13:12.420 --> 00:13:15.668 So this gives us a new effective

NOTE Confidence: 0.890003596818182

00:13:15.668 --> 00:13:18.170 tool for risk reduction.

NOTE Confidence: 0.890003596818182

00:13:18.170 --> 00:13:18.938 And of course,

NOTE Confidence: 0.890003596818182

00:13:18.938 --> 00:13:19.706 as a surgeon,

NOTE Confidence: 0.890003596818182

00:13:19.710 --> 00:13:21.670 I would need to talk about surgery

NOTE Confidence: 0.890003596818182

00:13:21.670 --> 00:13:22.510 for risk reduction.

NOTE Confidence: 0.890003596818182

00:13:22.510 --> 00:13:25.526 We only use this for patients with the

NOTE Confidence: 0.890003596818182

00:13:25.526 --> 00:13:28.644 BRCA one mutation who have the highest

NOTE Confidence: 0.890003596818182

00:13:28.644 --> 00:13:31.343 risk of breast cancer related to that

NOTE Confidence: 0.890003596818182

00:13:31.343 --> 00:13:33.089 previous graph that we looked at.

NOTE Confidence: 0.890003596818182

00:13:33.090 --> 00:13:35.995 So the studies that have looked at

NOTE Confidence: 0.890003596818182

00:13:35.995 --> 00:13:38.819 surgery for risk reduction have only

NOTE Confidence: 0.890003596818182

00:13:38.819 --> 00:13:42.298 looked at this very high risk population.

NOTE Confidence: 0.890003596818182

00:13:42.300 --> 00:13:44.393 And in the large studies that have

NOTE Confidence: 0.890003596818182

00:13:44.393 --> 00:13:46.440 been combined and looked at together,

NOTE Confidence: 0.890003596818182

00:13:46.440 --> 00:13:49.542 the risk reduction by performing a

NOTE Confidence: 0.890003596818182

00:13:49.542 --> 00:13:52.373 preventive mastectomy is greater than 95%,

NOTE Confidence: 0.890003596818182

00:13:52.373 --> 00:13:55.357 and we know that the there's also a

NOTE Confidence: 0.890003596818182

00:13:55.357 --> 00:13:57.447 mortality benefit for these patients

NOTE Confidence: 0.890003596818182

00:13:57.447 --> 00:14:00.510 that they live longer and do better.

NOTE Confidence: 0.890003596818182

00:14:00.510 --> 00:14:02.198 I just wanted to show a brief picture

NOTE Confidence: 0.890003596818182

00:14:02.198 --> 00:14:03.684 of a ****** sparing mastectomy

NOTE Confidence: 0.890003596818182

00:14:03.684 --> 00:14:05.796 'cause many patients have a lot

NOTE Confidence: 0.890003596818182

00:14:05.796 --> 00:14:07.812 of questions about this when we

NOTE Confidence: 0.890003596818182

00:14:07.812 --> 00:14:09.068 talk about this operation,

NOTE Confidence: 0.890003596818182

00:14:09.070 --> 00:14:11.611 and I thought that this picture from

NOTE Confidence: 0.890003596818182

00:14:11.611 --> 00:14:14.225 a picture from this publication was

NOTE Confidence: 0.890003596818182

00:14:14.225 --> 00:14:17.305 very useful to show that when we

NOTE Confidence: 0.890003596818182

00:14:17.305 --> 00:14:19.958 do this procedure we can spare the

NOTE Confidence: 0.890003596818182

00:14:19.958 --> 00:14:22.951 entire skin pocket and the ****** that

NOTE Confidence: 0.890003596818182

00:14:22.951 --> 00:14:26.598 we can do a reconstruction with a.

NOTE Confidence: 0.890003596818182

00:14:26.600 --> 00:14:28.455 Collagen matrix with an implant

NOTE Confidence: 0.890003596818182

00:14:28.455 --> 00:14:31.418 or we can do use the patient's

NOTE Confidence: 0.890003596818182

00:14:31.418 --> 00:14:33.478 own tissue to reconstruct.

NOTE Confidence: 0.890003596818182

00:14:33.480 --> 00:14:36.168 And get a very get a very good

NOTE Confidence: 0.890003596818182

00:14:36.168 --> 00:14:38.409 cosmetic result and also have a

NOTE Confidence: 0.890003596818182

00:14:38.409 --> 00:14:40.274 very safe result for patients.

NOTE Confidence: 0.962877848333333

00:14:42.450 --> 00:14:43.990 And that we can take this into

NOTE Confidence: 0.962877848333333

00:14:43.990 --> 00:14:45.330 different types of surgeries now,

NOTE Confidence: 0.962877848333333

00:14:45.330 --> 00:14:47.570 and we can really craft an operation

NOTE Confidence: 0.962877848333333

00:14:47.570 --> 00:14:50.206 to help meet every patient's needs.

NOTE Confidence: 0.962877848333333

00:14:50.206 --> 00:14:52.758 Sometimes they're staged operations.

NOTE Confidence: 0.962877848333333

00:14:52.760 --> 00:14:54.618 Sometimes we reduce the skin pocket or

NOTE Confidence: 0.962877848333333

00:14:54.618 --> 00:14:56.186 change the shape of the skin pocket,

NOTE Confidence: 0.962877848333333

00:14:56.190 --> 00:14:58.934 but can always come up with a reconstruction

NOTE Confidence: 0.962877848333333

00:14:58.934 --> 00:15:01.220 plan that works well for patients.

NOTE Confidence: 0.962877848333333

00:15:01.220 --> 00:15:03.052 And then I would be remiss if I

NOTE Confidence: 0.962877848333333

00:15:03.052 --> 00:15:04.899 didn't talk about primary prevention.

NOTE Confidence: 0.962877848333333

00:15:04.900 --> 00:15:06.836 I'm just at the end of my time,

NOTE Confidence: 0.962877848333333

00:15:06.840 --> 00:15:08.960 and so I'm just going to mention the

NOTE Confidence: 0.962877848333333

00:15:08.960 --> 00:15:10.658 importance of the plant based diet.

NOTE Confidence: 0.962877848333333

00:15:10.660 --> 00:15:13.306 We do have multiple studies that

NOTE Confidence: 0.962877848333333

00:15:13.306 --> 00:15:15.710 demonstrate that a diet that focuses

NOTE Confidence: 0.962877848333333

00:15:15.710 --> 00:15:18.230 on at least five servings of fruits

NOTE Confidence: 0.962877848333333

00:15:18.299 --> 00:15:20.910 and vegetables a day we know helps

NOTE Confidence: 0.962877848333333

00:15:20.910 --> 00:15:22.919 reduce future breast cancer risk.

NOTE Confidence: 0.962877848333333

00:15:22.920 --> 00:15:25.960 So with that I'm not going to go over my

NOTE Confidence: 0.962877848333333

00:15:26.041 --> 00:15:27.870 time and thank you for your attention.

NOTE Confidence: 0.881575216666667

00:15:35.830 --> 00:15:37.786 After lunch, thank you for such

NOTE Confidence: 0.881575216666667

00:15:37.786 --> 00:15:39.856 a nice talk to our attendees.

NOTE Confidence: 0.881575216666667

00:15:39.856 --> 00:15:42.028 Feel free to enter your questions

NOTE Confidence: 0.881575216666667

00:15:42.028 --> 00:15:45.650 for Doctor Lynch into the Q&A.

NOTE Confidence: 0.881575216666667

00:15:45.650 --> 00:15:48.884 I would like to now introduce Dr.

NOTE Confidence: 0.881575216666667

00:15:48.890 --> 00:15:51.440 Shabeel or Doctor Laura is a

NOTE Confidence: 0.881575216666667

00:15:51.440 --> 00:15:52.715 gastroenterologist and the

NOTE Confidence: 0.881575216666667

00:15:52.715 --> 00:15:54.969 director of the Smilow Cancer

NOTE Confidence: 0.881575216666667

00:15:54.969 --> 00:15:56.729 Genetics and Prevention program.

NOTE Confidence: 0.881575216666667

00:15:56.730 --> 00:15:59.046 He's also the director of the

NOTE Confidence: 0.881575216666667

00:15:59.046 --> 00:16:00.590 Colon colorectal Cancer Prevention

NOTE Confidence: 0.881575216666667

00:16:00.650 --> 00:16:02.670 program at Yale University and

NOTE Confidence: 0.881575216666667

00:16:02.670 --> 00:16:04.690 Smilow Cancer Hospital and associate

NOTE Confidence: 0.881575216666667

00:16:04.751 --> 00:16:06.559 director for cancer screening.

NOTE Confidence: 0.881575216666667

00:16:06.560 --> 00:16:07.650 Thank you for joining us.

NOTE Confidence: 0.881575216666667

00:16:07.650 --> 00:16:08.440 Doctor lore.

NOTE Confidence: 0.857792366

00:16:10.470 --> 00:16:11.350 Thank you very much Sir.

NOTE Confidence: 0.857792366

00:16:11.350 --> 00:16:12.568 It's a pleasure to be here today.

NOTE Confidence: 0.857792366

00:16:12.570 --> 00:16:14.818 Let me see we can share the screen.

NOTE Confidence: 0.89897726

00:16:19.250 --> 00:16:19.998 Can we see well?

NOTE Confidence: 0.7657569

00:16:22.770 --> 00:16:24.955 Alright, I have noticed those are

NOTE Confidence: 0.7657569

00:16:24.955 --> 00:16:28.922 set to make, so when we're thinking

NOTE Confidence: 0.7657569

00:16:28.922 --> 00:16:31.060 about the cancer predisposition

NOTE Confidence: 0.7657569

00:16:31.060 --> 00:16:34.090 and and genetic defects by now,

NOTE Confidence: 0.7657569

00:16:34.090 --> 00:16:37.946 we know that it is about over 100

NOTE Confidence: 0.7657569

00:16:37.950 --> 00:16:40.410 genes that have been discovered that

NOTE Confidence: 0.7657569

00:16:40.410 --> 00:16:42.914 they carry either high or moderate

NOTE Confidence: 0.7657569

00:16:42.914 --> 00:16:45.290 risk of cancer really defined as

NOTE Confidence: 0.7657569

00:16:45.290 --> 00:16:47.265 greater than two full relative

NOTE Confidence: 0.7657569

00:16:47.265 --> 00:16:49.904 risk of having any type of cancer.

NOTE Confidence: 0.7657569

00:16:49.904 --> 00:16:51.809 So a significant number of

NOTE Confidence: 0.7657569

00:16:51.809 --> 00:16:54.110 these genetic defects and they.

NOTE Confidence: 0.7657569

00:16:54.110 --> 00:16:56.510 Do affect many different organs,

NOTE Confidence: 0.7657569

00:16:56.510 --> 00:16:59.432 implying a higher risk of cancer

NOTE Confidence: 0.7657569

00:16:59.432 --> 00:17:02.424 when we look at the, uh,

NOTE Confidence: 0.7657569

00:17:02.424 --> 00:17:04.026 colorectal cancer specifically,

NOTE Confidence: 0.7657569

00:17:04.026 --> 00:17:07.794 and we look at the entire pile

NOTE Confidence: 0.7657569

00:17:07.794 --> 00:17:09.486 of colorectal cancers.

NOTE Confidence: 0.7657569

00:17:09.486 --> 00:17:11.944 But we'll see, is there.

NOTE Confidence: 0.7657569

00:17:11.944 --> 00:17:15.080 But is that about 5% or a little bit

NOTE Confidence: 0.7657569

00:17:15.080 --> 00:17:18.025 over 5% of all colorectal cancers will

NOTE Confidence: 0.7657569

00:17:18.025 --> 00:17:20.360 have an underlying high penetrance.

NOTE Confidence: 0.7657569

00:17:20.360 --> 00:17:22.405 Mutation germline mutation that would

NOTE Confidence: 0.7657569

00:17:22.405 --> 00:17:25.090 predispose to a higher risk of color.

NOTE Confidence: 0.7657569

00:17:25.090 --> 00:17:27.794 Colorectal cancer and about

NOTE Confidence: 0.7657569

00:17:27.794 --> 00:17:30.774 another 5% or so that would have

NOTE Confidence: 0.7657569

00:17:30.774 --> 00:17:31.926 moderate penetrance mutations.

NOTE Confidence: 0.7657569

00:17:31.930 --> 00:17:33.700 The ones that increase the risk

NOTE Confidence: 0.7657569

00:17:33.700 --> 00:17:36.573 but not to the level of the high

NOTE Confidence: 0.7657569

00:17:36.573 --> 00:17:38.128 penetrance mutations and if we

NOTE Confidence: 0.7657569

00:17:38.128 --> 00:17:39.850 look at the at this first group

NOTE Confidence: 0.7657569

00:17:39.916 --> 00:17:41.660 of high penetrance mutations,

NOTE Confidence: 0.7657569

00:17:41.660 --> 00:17:43.736 the more predominant ones are the

NOTE Confidence: 0.7657569

00:17:43.736 --> 00:17:45.770 ones that cost Lynch syndrome.

NOTE Confidence: 0.7657569

00:17:45.770 --> 00:17:48.122 The ones due to germline mutations

NOTE Confidence: 0.7657569

00:17:48.122 --> 00:17:50.180 in the mismatch repair genes.

NOTE Confidence: 0.7657569

00:17:50.180 --> 00:17:52.178 And then at the lower number,

NOTE Confidence: 0.7657569

00:17:52.180 --> 00:17:53.652 but also very important,

NOTE Confidence: 0.7657569

00:17:53.652 --> 00:17:55.860 the ones that do cost polyposis,

NOTE Confidence: 0.7657569

00:17:55.860 --> 00:17:58.064 particularly APC or bailing

NOTE Confidence: 0.7657569

00:17:58.064 --> 00:18:00.819 mutations in the MYH gene,

NOTE Confidence: 0.7657569

00:18:00.820 --> 00:18:03.700 we also find other mutations that

NOTE Confidence: 0.7657569

00:18:03.700 --> 00:18:06.722 are not as clearly well established

NOTE Confidence: 0.7657569

00:18:06.722 --> 00:18:09.477 as causing correct or increasing

NOTE Confidence: 0.7657569

00:18:09.477 --> 00:18:11.130 colorectal cancer risk,

NOTE Confidence: 0.7657569

00:18:11.130 --> 00:18:14.218 and among the moderate ones we do have,

NOTE Confidence: 0.7657569

00:18:14.220 --> 00:18:17.530 particularly a specific mutation in

NOTE Confidence: 0.7657569

00:18:17.530 --> 00:18:21.060 APC I 1307 K mutation, for instance.

NOTE Confidence: 0.7657569

00:18:21.060 --> 00:18:23.466 Check two mutations or monolithic myh

NOTE Confidence: 0.7657569

00:18:23.466 --> 00:18:26.288 mutations that again does increase the risk,

NOTE Confidence: 0.7657569

00:18:26.290 --> 00:18:29.010 but not to the level of the high

NOTE Confidence: 0.7657569

00:18:29.010 --> 00:18:31.308 risk or the high penetrance

NOTE Confidence: 0.7657569

00:18:31.308 --> 00:18:34.368 mutations that we see with lynching

NOTE Confidence: 0.7657569

00:18:34.368 --> 00:18:36.838 them for instance or or FP.

NOTE Confidence: 0.7657569

00:18:36.840 --> 00:18:39.666 And this is true for for the overall group

NOTE Confidence: 0.7657569

00:18:39.666 --> 00:18:42.498 of individuals with corrective cancer,

NOTE Confidence: 0.7657569

00:18:42.500 --> 00:18:44.294 and certainly is true for the

NOTE Confidence: 0.7657569

00:18:44.294 --> 00:18:45.980 individuals that are older than 50,

NOTE Confidence: 0.7657569

00:18:45.980 --> 00:18:47.674 which are the majority of this patient.

NOTE Confidence: 0.7657569

00:18:47.680 --> 00:18:48.874 So in general,

NOTE Confidence: 0.7657569

00:18:48.874 --> 00:18:52.030 but 10% will have these germline mutations.

NOTE Confidence: 0.7657569

00:18:52.030 --> 00:18:54.460 And 90% of them would not

NOTE Confidence: 0.7657569

00:18:54.460 --> 00:18:55.675 have these mutations.

NOTE Confidence: 0.7657569

00:18:55.680 --> 00:18:57.305 But if we look at younger individuals,

NOTE Confidence: 0.7657569

00:18:57.305 --> 00:18:57.955 for instance,

NOTE Confidence: 0.7657569

00:18:57.955 --> 00:18:59.905 individuals who are younger than 50

NOTE Confidence: 0.7657569

00:18:59.905 --> 00:19:01.668 who developed colorectal cancer,

NOTE Confidence: 0.7657569

00:19:01.670 --> 00:19:03.945 the proportion of individuals that

NOTE Confidence: 0.7657569

00:19:03.945 --> 00:19:07.772 will have a germline mutation related

NOTE Confidence: 0.7657569

00:19:07.772 --> 00:19:10.878 to cancer risk will be higher.

NOTE Confidence: 0.7657569

00:19:10.878 --> 00:19:13.020 That will go up to close to

NOTE Confidence: 0.7657569

00:19:13.096 --> 00:19:14.330 20% being 10% lynching.

NOTE Confidence: 0.7657569

00:19:14.330 --> 00:19:18.118 And if we look even at a lower age looking

NOTE Confidence: 0.7657569

00:19:18.118 --> 00:19:21.205 at individuals who are younger than 35,

NOTE Confidence: 0.7657569

00:19:21.210 --> 00:19:22.086 then here.

NOTE Confidence: 0.7657569

00:19:22.086 --> 00:19:25.000 We'll see that about 45% of those individuals

NOTE Confidence: 0.7657569

00:19:25.000 --> 00:19:26.740 will have a German language issue.

NOTE Confidence: 0.7657569

00:19:26.740 --> 00:19:28.725 That's why it's so important

NOTE Confidence: 0.7657569

00:19:28.725 --> 00:19:30.710 that as individuals are diagnosed

NOTE Confidence: 0.7657569

00:19:30.780 --> 00:19:32.640 at a younger and younger age,

NOTE Confidence: 0.7657569

00:19:32.640 --> 00:19:34.870 we really do genetic testing

NOTE Confidence: 0.7657569

00:19:34.870 --> 00:19:36.208 on these individuals,

NOTE Confidence: 0.7657569

00:19:36.210 --> 00:19:39.082 because there are chances of having a an

NOTE Confidence: 0.7657569

00:19:39.082 --> 00:19:41.259 inherited cancer syndrome will be much,

NOTE Confidence: 0.7657569

00:19:41.260 --> 00:19:43.740 much higher than individuals who

NOTE Confidence: 0.7657569

00:19:43.740 --> 00:19:47.129 develop those cancers at an older age.

NOTE Confidence: 0.7657569

00:19:47.130 --> 00:19:51.072 And we've looked at the representation

NOTE Confidence: 0.7657569

00:19:51.072 --> 00:19:53.700 among the colon cancers.

NOTE Confidence: 0.875331407857143

00:19:53.700 --> 00:19:57.183 Of these cases, but what is the true actual

NOTE Confidence: 0.875331407857143

00:19:57.183 --> 00:19:59.759 incidence among the general population?

NOTE Confidence: 0.875331407857143

00:19:59.760 --> 00:20:02.026 So for the most common colon cancer syndrome,

NOTE Confidence: 0.875331407857143

00:20:02.026 --> 00:20:03.360 which would be a lynching, dromas?

NOTE Confidence: 0.875331407857143

00:20:03.360 --> 00:20:06.972 We mentioned one in 279 individuals,

NOTE Confidence: 0.875331407857143

00:20:06.972 --> 00:20:08.516 not people with cancer,

NOTE Confidence: 0.875331407857143

00:20:08.520 --> 00:20:10.932 but any individuals will have a

NOTE Confidence: 0.875331407857143

00:20:10.932 --> 00:20:14.092 mutation in any one of these mismatch

NOTE Confidence: 0.875331407857143

00:20:14.092 --> 00:20:17.032 repair genes that cost Lynch syndrome.

NOTE Confidence: 0.875331407857143

00:20:17.040 --> 00:20:19.184 So that means that more than a million

NOTE Confidence: 0.875331407857143

00:20:19.184 --> 00:20:20.879 Americans do have leaned syndrome.

NOTE Confidence: 0.875331407857143

00:20:20.880 --> 00:20:23.560 Many of them have not been diagnosed yet.

NOTE Confidence: 0.875331407857143

00:20:23.560 --> 00:20:24.184 And there's.

NOTE Confidence: 0.875331407857143

00:20:24.184 --> 00:20:27.172 Plenty of work to be done in that scenario.

NOTE Confidence: 0.875331407857143

00:20:27.172 --> 00:20:29.140 On the other hand,

NOTE Confidence: 0.875331407857143

00:20:29.140 --> 00:20:31.772 important to point out that actually the

NOTE Confidence: 0.875331407857143

00:20:31.772 --> 00:20:34.501 mutations in the mismatch repair genes that

NOTE Confidence: 0.875331407857143

00:20:34.501 --> 00:20:37.280 cause in children that are more common

NOTE Confidence: 0.875331407857143

00:20:37.280 --> 00:20:39.770 which are cheeks in particularly PMS.

NOTE Confidence: 0.875331407857143

00:20:39.770 --> 00:20:43.418 So those are the ones that

NOTE Confidence: 0.875331407857143

00:20:43.418 --> 00:20:45.306 carry a lower penetrance,

NOTE Confidence: 0.875331407857143

00:20:45.306 --> 00:20:48.367 meaning they have they have a lower risk of

NOTE Confidence: 0.875331407857143

00:20:48.367 --> 00:20:50.726 cancer that complicates things a little bit.

NOTE Confidence: 0.875331407857143

00:20:50.730 --> 00:20:53.388 So we have some genes that

NOTE Confidence: 0.875331407857143

00:20:53.388 --> 00:20:55.196 are less commonly mutated,

NOTE Confidence: 0.875331407857143

00:20:55.196 --> 00:20:56.570 but they cost.

NOTE Confidence: 0.875331407857143

00:20:56.570 --> 00:20:58.712 They have a much higher risk of

NOTE Confidence: 0.875331407857143

00:20:58.712 --> 00:21:00.718 cancer and then some others that

NOTE Confidence: 0.875331407857143

00:21:00.718 --> 00:21:02.758 are left that are more common,

NOTE Confidence: 0.875331407857143

00:21:02.760 --> 00:21:05.046 but yet their risk of cancer is not as

NOTE Confidence: 0.875331407857143

00:21:05.046 --> 00:21:07.199 high as you did with the other ones.

NOTE Confidence: 0.875331407857143

00:21:07.200 --> 00:21:09.132 So that's also important to keep in

NOTE Confidence: 0.875331407857143

00:21:09.132 --> 00:21:11.200 mind and will see in a minute how

NOTE Confidence: 0.875331407857143

00:21:11.200 --> 00:21:12.840 we are looking at this differently

NOTE Confidence: 0.875331407857143

00:21:12.840 --> 00:21:14.416 depending on the jeans.

NOTE Confidence: 0.875331407857143

00:21:14.420 --> 00:21:15.527 For the most part,

NOTE Confidence: 0.875331407857143

00:21:15.527 --> 00:21:18.269 the majority of the colon cancer

NOTE Confidence: 0.875331407857143

00:21:18.269 --> 00:21:20.310 syndromes are autosomal dominant

NOTE Confidence: 0.875331407857143

00:21:20.310 --> 00:21:22.840 public process and attenuated forms.

NOTE Confidence: 0.875331407857143

00:21:22.840 --> 00:21:23.772 Lynch syndrome.

NOTE Confidence: 0.875331407857143

00:21:23.772 --> 00:21:25.636 Those are autosomal dominant,

NOTE Confidence: 0.875331407857143

00:21:25.640 --> 00:21:27.053 maybe meaning that.

NOTE Confidence: 0.875331407857143

00:21:27.053 --> 00:21:30.350 The single a little a single imitation

NOTE Confidence: 0.875331407857143

00:21:30.440 --> 00:21:32.978 encrypted either from mum or that

NOTE Confidence: 0.875331407857143

00:21:32.978 --> 00:21:35.750 is enough to carry that mutation

NOTE Confidence: 0.875331407857143

00:21:35.750 --> 00:21:38.245 that causes the the syndrome.

NOTE Confidence: 0.875331407857143

00:21:38.250 --> 00:21:40.162 That's the majority again,

NOTE Confidence: 0.875331407857143

00:21:40.162 --> 00:21:42.552 or the colon cancer syndromes.

NOTE Confidence: 0.875331407857143

00:21:42.560 --> 00:21:43.946 But then there's a couple of them.

NOTE Confidence: 0.875331407857143

00:21:43.950 --> 00:21:45.862 One is map and we'll talk about it

NOTE Confidence: 0.875331407857143

00:21:45.862 --> 00:21:48.554 in a second and then this MTH L1,

NOTE Confidence: 0.875331407857143

00:21:48.554 --> 00:21:51.326 where those are autosomal recessive diseases.

NOTE Confidence: 0.875331407857143

00:21:51.330 --> 00:21:52.440 That means that we did.

NOTE Confidence: 0.875331407857143

00:21:52.440 --> 00:21:54.813 We need to inherit 1 mutated copy

NOTE Confidence: 0.875331407857143

00:21:54.813 --> 00:21:57.376 from Mom and one from that in

NOTE Confidence: 0.875331407857143

00:21:57.376 --> 00:21:59.584 order to really have the disease.

NOTE Confidence: 0.875331407857143

00:21:59.590 --> 00:22:01.210 Loser again, less common.

NOTE Confidence: 0.875331407857143

00:22:01.210 --> 00:22:04.132 The majority of the colon cancer

NOTE Confidence: 0.875331407857143

00:22:04.132 --> 00:22:06.736 syndromes Paris autosomal dominant.

NOTE Confidence: 0.875331407857143

00:22:06.740 --> 00:22:09.156 So let's go a little bit over about

NOTE Confidence: 0.875331407857143

00:22:09.156 --> 00:22:10.784 Lynch syndrome model and what we

NOTE Confidence: 0.875331407857143

00:22:10.784 --> 00:22:12.900 can do once we have it diagnosed.

NOTE Confidence: 0.875331407857143

00:22:12.900 --> 00:22:14.629 So the theology we talked about it,

NOTE Confidence: 0.875331407857143

00:22:14.630 --> 00:22:17.276 it's a mutation in the germline that

NOTE Confidence: 0.875331407857143

00:22:17.276 --> 00:22:19.975 means that it's inherited in any one

NOTE Confidence: 0.875331407857143

00:22:19.975 --> 00:22:22.790 of these genes that are called mismatch

NOTE Confidence: 0.875331407857143

00:22:22.790 --> 00:22:24.689 repair genes to summer dominant.

NOTE Confidence: 0.875331407857143

00:22:24.689 --> 00:22:25.568 As we mentioned,

NOTE Confidence: 0.875331407857143

00:22:25.570 --> 00:22:26.994 with variable penetrance and

NOTE Confidence: 0.875331407857143

00:22:26.994 --> 00:22:29.633 will go through this in a second

NOTE Confidence: 0.875331407857143

00:22:29.633 --> 00:22:31.778 and miniature diagnosis is wide.

NOTE Confidence: 0.875331407857143

00:22:31.780 --> 00:22:35.038 Wiley variable as will also see in a minute,

NOTE Confidence: 0.875331407857143

00:22:35.040 --> 00:22:37.040 but in general lower than

NOTE Confidence: 0.875331407857143

00:22:37.040 --> 00:22:38.240 sporadical rectal cancer,

NOTE Confidence: 0.875331407857143

00:22:38.240 --> 00:22:41.320 so we will see as we saw before,

NOTE Confidence: 0.875331407857143

00:22:41.320 --> 00:22:43.510 that many of these younger individuals

NOTE Confidence: 0.875331407857143

00:22:43.510 --> 00:22:45.800 who have a higher percentage of

NOTE Confidence: 0.875331407857143

00:22:45.800 --> 00:22:48.068 cases that will have Lynch Ingram

NOTE Confidence: 0.875331407857143

00:22:48.068 --> 00:22:50.269 as opposed to older individuals.

NOTE Confidence: 0.875331407857143

00:22:50.270 --> 00:22:51.440 Only a few polyps or none,

NOTE Confidence: 0.875331407857143

00:22:51.440 --> 00:22:53.435 and that's a problem that we often

NOTE Confidence: 0.875331407857143

00:22:53.435 --> 00:22:55.609 see many times because there are no

NOTE Confidence: 0.875331407857143

00:22:55.609 --> 00:22:57.877 polyps in people think that there will

NOTE Confidence: 0.875331407857143

00:22:57.877 --> 00:23:00.117 be no risk for developing colon cancer,

NOTE Confidence: 0.843196832857143

00:23:00.120 --> 00:23:02.276 and in fact it has very little.

NOTE Confidence: 0.843196832857143

00:23:02.280 --> 00:23:04.205 To do the number of polyps and

NOTE Confidence: 0.843196832857143

00:23:04.205 --> 00:23:05.861 development of cancer in Lynch syndrome

NOTE Confidence: 0.843196832857143

00:23:05.861 --> 00:23:08.100 so it's never a marker for that at all,

NOTE Confidence: 0.843196832857143

00:23:08.100 --> 00:23:10.228 and we don't pay much attention to it

NOTE Confidence: 0.843196832857143

00:23:10.228 --> 00:23:12.826 at all and more right side to more

NOTE Confidence: 0.843196832857143

00:23:12.826 --> 00:23:14.889 than sporadic colon cancers in general.

NOTE Confidence: 0.843196832857143

00:23:14.890 --> 00:23:17.060 It's 70% of the Sprite.

NOTE Confidence: 0.843196832857143

00:23:17.060 --> 00:23:18.680 Colon cancers do happen in the

NOTE Confidence: 0.843196832857143

00:23:18.680 --> 00:23:20.539 in the distal part of the colon,

NOTE Confidence: 0.843196832857143

00:23:20.540 --> 00:23:21.196 ****** sigmoid,

NOTE Confidence: 0.843196832857143

00:23:21.196 --> 00:23:23.492 and the left side of the colon.

NOTE Confidence: 0.843196832857143

00:23:23.500 --> 00:23:24.570 Yet in Lynch syndrome is

NOTE Confidence: 0.843196832857143

00:23:24.570 --> 00:23:25.930 more like a half and half,

NOTE Confidence: 0.843196832857143

00:23:25.930 --> 00:23:28.671 so many more right sided tumors

NOTE Confidence: 0.843196832857143

00:23:28.671 --> 00:23:31.017 which do have implications when it

NOTE Confidence: 0.843196832857143

00:23:31.017 --> 00:23:33.240 comes to screening and surveillance.

NOTE Confidence: 0.843196832857143

00:23:33.240 --> 00:23:35.640 And very rapid cancer development.

NOTE Confidence: 0.843196832857143

00:23:35.640 --> 00:23:37.885 That's a key characteristic that

NOTE Confidence: 0.843196832857143

00:23:37.885 --> 00:23:40.581 cancers do develop very fast within

NOTE Confidence: 0.843196832857143

00:23:40.581 --> 00:23:42.859 two to three years we can go from.

NOTE Confidence: 0.843196832857143

00:23:42.859 --> 00:23:44.980 Early lesion to a cancer and that

NOTE Confidence: 0.843196832857143

00:23:45.055 --> 00:23:47.876 really informs how we do screening and

NOTE Confidence: 0.843196832857143

00:23:47.876 --> 00:23:49.899 surveillance for those individuals at

NOTE Confidence: 0.843196832857143

00:23:49.899 --> 00:23:52.517 high risk of having a second cancer.

NOTE Confidence: 0.843196832857143

00:23:52.520 --> 00:23:53.834 In this case,

NOTE Confidence: 0.843196832857143

00:23:53.834 --> 00:23:55.586 a second colon cancer,

NOTE Confidence: 0.843196832857143

00:23:55.590 --> 00:23:58.318 30% at 10 years after the first diagnosis.

NOTE Confidence: 0.843196832857143

00:23:58.320 --> 00:24:00.735 That's why it is very important to

NOTE Confidence: 0.843196832857143

00:24:00.735 --> 00:24:02.768 either do very enhanced surveillance

NOTE Confidence: 0.843196832857143

00:24:02.768 --> 00:24:05.552 or even proceed with colectomy after

NOTE Confidence: 0.843196832857143

00:24:05.552 --> 00:24:08.597 we have a diagnosis of a colon

NOTE Confidence: 0.843196832857143

00:24:08.597 --> 00:24:10.637 cancer related with Lynch syndrome.

NOTE Confidence: 0.843196832857143

00:24:10.640 --> 00:24:11.176 And truly,

NOTE Confidence: 0.843196832857143

00:24:11.176 --> 00:24:13.052 this is not a colon cancer syndrome.

NOTE Confidence: 0.843196832857143

00:24:13.060 --> 00:24:14.430 This is a multi cancer.

NOTE Confidence: 0.843196832857143

00:24:14.430 --> 00:24:17.034 In Rome with higher risk for cancer

NOTE Confidence: 0.843196832857143

00:24:17.034 --> 00:24:19.674 from the Mitchell but also variants

NOTE Confidence: 0.843196832857143

00:24:19.674 --> 00:24:21.610 stomach small bowel hepatobiliary

NOTE Confidence: 0.843196832857143

00:24:21.610 --> 00:24:23.868 there ourselves a different number

NOTE Confidence: 0.843196832857143

00:24:23.868 --> 00:24:26.788 of up types of cancers that have an

NOTE Confidence: 0.843196832857143

00:24:26.790 --> 00:24:28.770 increased risk and will sinnamon it

NOTE Confidence: 0.843196832857143

00:24:28.770 --> 00:24:31.446 right here and so over the last few

NOTE Confidence: 0.843196832857143

00:24:31.446 --> 00:24:33.384 years we've really learned is that

NOTE Confidence: 0.843196832857143

00:24:33.455 --> 00:24:35.759 lynching room does have many flavors,

NOTE Confidence: 0.843196832857143

00:24:35.760 --> 00:24:37.713 and those really depend a lot on

NOTE Confidence: 0.843196832857143

00:24:37.713 --> 00:24:40.010 the type of mutation that we have.

NOTE Confidence: 0.843196832857143

00:24:40.010 --> 00:24:42.810 Here we have the four genes implicated

NOTE Confidence: 0.843196832857143

00:24:42.810 --> 00:24:44.938 in Lynch syndrome here on the.

NOTE Confidence: 0.843196832857143

00:24:44.940 --> 00:24:47.425 Left side we have the column with

NOTE Confidence: 0.843196832857143

00:24:47.425 --> 00:24:49.136 the different cancer sites and

NOTE Confidence: 0.843196832857143

00:24:49.136 --> 00:24:50.796 then on the right side.

NOTE Confidence: 0.843196832857143

00:24:50.800 --> 00:24:52.858 Here we have the cumulative risk

NOTE Confidence: 0.843196832857143

00:24:52.858 --> 00:24:55.415 for that for diagnosis to a lifetime

NOTE Confidence: 0.843196832857143

00:24:55.415 --> 00:24:57.285 for the general population just

NOTE Confidence: 0.843196832857143

00:24:57.285 --> 00:24:58.660 for comparison purposes.

NOTE Confidence: 0.843196832857143

00:24:58.660 --> 00:24:59.980 And as you'll see here,

NOTE Confidence: 0.843196832857143

00:24:59.980 --> 00:25:01.120 for colorectal cancer,

NOTE Confidence: 0.843196832857143

00:25:01.120 --> 00:25:03.780 very high risk in MLH one message,

NOTE Confidence: 0.843196832857143

00:25:03.780 --> 00:25:06.342 two carriers a little less for MSH

NOTE Confidence: 0.843196832857143

00:25:06.342 --> 00:25:09.072 6 and definitely lower risk for PMS

NOTE Confidence: 0.843196832857143

00:25:09.072 --> 00:25:11.400 two definitely much higher than the

NOTE Confidence: 0.843196832857143

00:25:11.476 --> 00:25:13.848 general population or population.

NOTE Confidence: 0.843196832857143

00:25:13.850 --> 00:25:15.128 4.2% over live.

NOTE Confidence: 0.843196832857143

00:25:15.128 --> 00:25:18.610 Time and here PMS two up to 20%,

NOTE Confidence: 0.843196832857143

00:25:18.610 --> 00:25:20.395 but definitely less than the other one,

NOTE Confidence: 0.843196832857143

00:25:20.400 --> 00:25:22.980 so that's also we mentioned that

NOTE Confidence: 0.843196832857143

00:25:22.980 --> 00:25:25.342 it's a difference that we take into

NOTE Confidence: 0.843196832857143

00:25:25.342 --> 00:25:26.950 account and to meet real cancer.

NOTE Confidence: 0.843196832857143

00:25:26.950 --> 00:25:28.580 There are important differences too.

NOTE Confidence: 0.843196832857143

00:25:28.580 --> 00:25:33.008 Also with the lower.

NOTE Confidence: 0.843196832857143

00:25:33.010 --> 00:25:34.774 Percentage of individuals developing

NOTE Confidence: 0.843196832857143

00:25:34.774 --> 00:25:37.879 it when they have PMS two mutations

NOTE Confidence: 0.843196832857143

00:25:37.879 --> 00:25:41.335 and then there are also very a unique cases.

NOTE Confidence: 0.843196832857143

00:25:41.340 --> 00:25:43.622 For instance when it comes to the

NOTE Confidence: 0.843196832857143

00:25:43.622 --> 00:25:45.036 urothelial tract, renal pelvis,

NOTE Confidence: 0.843196832857143

00:25:45.036 --> 00:25:45.792 ureter, bladder,

NOTE Confidence: 0.843196832857143

00:25:45.792 --> 00:25:48.631 where we see kind of a clustering

NOTE Confidence: 0.843196832857143

00:25:48.631 --> 00:25:51.091 of the individuals and families

NOTE Confidence: 0.843196832857143

00:25:51.091 --> 00:25:52.567 with these cancers.

NOTE Confidence: 0.843196832857143

00:25:52.570 --> 00:25:56.140 In mutation carriers for MSH.

NOTE Confidence: 0.843196832857143

00:25:56.140 --> 00:25:57.054 2 genes.

NOTE Confidence: 0.843196832857143

00:25:57.054 --> 00:25:59.796 So that's where they really tend

NOTE Confidence: 0.843196832857143

00:25:59.796 --> 00:26:00.710 to concentrate.

NOTE Confidence: 0.843196832857143

00:26:00.710 --> 00:26:02.410 Or for instance in pancreas,

NOTE Confidence: 0.843196832857143

00:26:02.410 --> 00:26:04.738 where this really has been much

NOTE Confidence: 0.843196832857143

00:26:04.738 --> 00:26:06.703 more clearly associated with Emily

NOTE Confidence: 0.843196832857143

00:26:06.703 --> 00:26:08.761 to one mutation carriers and much

NOTE Confidence: 0.843196832857143

00:26:08.761 --> 00:26:09.790 less with the

NOTE Confidence: 0.749362615454546

00:26:09.858 --> 00:26:12.400 other ones, and definitely not with PMS two.

NOTE Confidence: 0.749362615454546

00:26:12.400 --> 00:26:15.216 So we are left with those very important

NOTE Confidence: 0.749362615454546

00:26:15.216 --> 00:26:17.348 differences that really are informing us

NOTE Confidence: 0.749362615454546

00:26:17.348 --> 00:26:20.010 on how we are approaching Lynch syndrome.

NOTE Confidence: 0.749362615454546

00:26:20.010 --> 00:26:24.470 Again, we no longer calling syndrome as a

NOTE Confidence: 0.749362615454546

00:26:24.470 --> 00:26:27.487 whole and we tend to say more like MLH.

NOTE Confidence: 0.749362615454546

00:26:27.490 --> 00:26:29.506 One related Lynch syndrome or PMS

NOTE Confidence: 0.749362615454546

00:26:29.506 --> 00:26:31.799 2 links in there just because.

NOTE Confidence: 0.749362615454546

00:26:31.800 --> 00:26:35.195 They seem to have a important enough

NOTE Confidence: 0.749362615454546

00:26:35.195 --> 00:26:37.927 differences as you are seeing here

NOTE Confidence: 0.749362615454546

00:26:37.927 --> 00:26:40.947 and when we look at these one P M S2,

NOTE Confidence: 0.749362615454546

00:26:40.950 --> 00:26:42.896 which as we mentioned is the one

NOTE Confidence: 0.749362615454546

00:26:42.896 --> 00:26:45.308 that is the most common of them all.

NOTE Confidence: 0.749362615454546

00:26:45.310 --> 00:26:47.794 The risk is really concentrated in

NOTE Confidence: 0.749362615454546

00:26:47.794 --> 00:26:49.315 colorectal and endometrial plus

NOTE Confidence: 0.749362615454546

00:26:49.315 --> 00:26:50.965 minus 4 Berry and definitely does

NOTE Confidence: 0.749362615454546

00:26:50.965 --> 00:26:52.800 not seem that there's an increased

NOTE Confidence: 0.749362615454546

00:26:52.800 --> 00:26:54.702 risk for all these other cancers.

NOTE Confidence: 0.749362615454546

00:26:54.710 --> 00:26:57.470 So our surveillance is definitely different.

NOTE Confidence: 0.749362615454546

00:26:57.470 --> 00:27:00.135 Looking at these cancer risks

NOTE Confidence: 0.749362615454546

00:27:00.135 --> 00:27:02.800 when we are looking at.

NOTE Confidence: 0.749362615454546

00:27:02.800 --> 00:27:04.788 Average age at presentation.

NOTE Confidence: 0.749362615454546

00:27:04.788 --> 00:27:06.776 Important differences here too.

NOTE Confidence: 0.749362615454546

00:27:06.780 --> 00:27:09.204 And when we look at Colon

NOTE Confidence: 0.749362615454546

00:27:09.204 --> 00:27:11.470 that's younger for Emily Joanna.

NOTE Confidence: 0.749362615454546

00:27:11.470 --> 00:27:14.098 Message 2 mutation carriers.

NOTE Confidence: 0.749362615454546

00:27:14.098 --> 00:27:17.722 Yet it's older for MSH 6IN,

NOTE Confidence: 0.749362615454546

00:27:17.722 --> 00:27:20.049 particularly for PMS two individuals.

NOTE Confidence: 0.749362615454546

00:27:20.049 --> 00:27:22.761 And if you look at here at the

NOTE Confidence: 0.749362615454546

00:27:22.761 --> 00:27:25.004 bracket here for PMS two 6166 it's

NOTE Confidence: 0.749362615454546

00:27:25.004 --> 00:27:26.914 important to remember right now.

NOTE Confidence: 0.749362615454546

00:27:26.920 --> 00:27:29.422 Last year the average age of

NOTE Confidence: 0.749362615454546

00:27:29.422 --> 00:27:31.434 colorectal cancer had gone down

NOTE Confidence: 0.749362615454546

00:27:31.434 --> 00:27:33.210 to 67 in the US population.

NOTE Confidence: 0.749362615454546

00:27:33.210 --> 00:27:35.226 So that's pretty close to what we

NOTE Confidence: 0.749362615454546

00:27:35.226 --> 00:27:37.110 would see with PMS two mutation

NOTE Confidence: 0.749362615454546

00:27:37.110 --> 00:27:39.336 carriers so many times you'll see me

NOTE Confidence: 0.749362615454546

00:27:39.403 --> 00:27:41.455 individuals Lynch syndrome due to a

NOTE Confidence: 0.749362615454546

00:27:41.455 --> 00:27:44.099 PMS two mutation that you will be

NOTE Confidence: 0.749362615454546

00:27:44.099 --> 00:27:47.060 not very spectacular and the age of

NOTE Confidence: 0.749362615454546

00:27:47.150 --> 00:27:49.714 onset is not going to be that different

NOTE Confidence: 0.749362615454546

00:27:49.714 --> 00:27:51.644 from the general population and and

NOTE Confidence: 0.749362615454546

00:27:51.644 --> 00:27:53.884 often we may not even suspect that

NOTE Confidence: 0.749362615454546

00:27:53.949 --> 00:27:56.665 the patient can actually have Lynch syndrome.

NOTE Confidence: 0.749362615454546

00:27:56.670 --> 00:27:58.536 When it comes to individual cancers,

NOTE Confidence: 0.749362615454546

00:27:58.540 --> 00:28:00.574 he just seemed to be a little more equal.

NOTE Confidence: 0.749362615454546

00:28:00.580 --> 00:28:03.205 Here when it comes to age of

NOTE Confidence: 0.749362615454546

00:28:03.205 --> 00:28:04.899 presentation of these cancers

NOTE Confidence: 0.749362615454546

00:28:04.899 --> 00:28:07.339 around all the different genes.

NOTE Confidence: 0.749362615454546

00:28:07.340 --> 00:28:08.160 So what do we do?

NOTE Confidence: 0.749362615454546

00:28:08.160 --> 00:28:09.840 And in terms of surveillance.

NOTE Confidence: 0.749362615454546

00:28:09.840 --> 00:28:12.384 So for colorectal we do start with high

NOTE Confidence: 0.749362615454546

00:28:12.384 --> 00:28:15.138 quality and meaning high quality colonoscopy.

NOTE Confidence: 0.749362615454546

00:28:15.140 --> 00:28:18.116 What it really means is that we need

NOTE Confidence: 0.749362615454546

00:28:18.116 --> 00:28:21.064 to make sure that the preparation

NOTE Confidence: 0.749362615454546

00:28:21.064 --> 00:28:23.180 is adequate and optimal.

NOTE Confidence: 0.749362615454546

00:28:23.180 --> 00:28:23.914 Then, uh,

NOTE Confidence: 0.749362615454546

00:28:23.914 --> 00:28:26.116 and also that endoscopies do spend

NOTE Confidence: 0.749362615454546

00:28:26.116 --> 00:28:28.002 the time really carefully looking

NOTE Confidence: 0.749362615454546

00:28:28.002 --> 00:28:31.023 at the at the colon to make sure

NOTE Confidence: 0.749362615454546

00:28:31.023 --> 00:28:33.158 that we're not missing anything,

NOTE Confidence: 0.749362615454546

00:28:33.160 --> 00:28:33.617 because,

NOTE Confidence: 0.749362615454546

00:28:33.617 --> 00:28:34.074 again,

NOTE Confidence: 0.749362615454546

00:28:34.074 --> 00:28:36.359 particularly right side lesions often

NOTE Confidence: 0.749362615454546

00:28:36.359 --> 00:28:39.110 would start very flat and may be

NOTE Confidence: 0.749362615454546

00:28:39.110 --> 00:28:41.072 easily missed and into three years

NOTE Confidence: 0.749362615454546

00:28:41.137 --> 00:28:43.356 we have a full blown cancer there,

NOTE Confidence: 0.749362615454546

00:28:43.360 --> 00:28:44.968 so very, very important.

NOTE Confidence: 0.749362615454546

00:28:44.968 --> 00:28:47.590 The quality of the call and ask

NOTE Confidence: 0.749362615454546

00:28:47.590 --> 00:28:50.233 be leading at ages 20 to 25, but.

NOTE Confidence: 0.749362615454546

00:28:50.233 --> 00:28:53.057 At 30 to 35 for the mutation carriers

NOTE Confidence: 0.749362615454546

00:28:53.057 --> 00:28:56.022 of MSA CHEEKS and PMS two just because

NOTE Confidence: 0.749362615454546

00:28:56.022 --> 00:28:58.760 of what we were showing before,

NOTE Confidence: 0.749362615454546

00:28:58.760 --> 00:29:00.678 which is that they tend to present

NOTE Confidence: 0.749362615454546

00:29:00.678 --> 00:29:04.250 later in life or if.

NOTE Confidence: 0.749362615454546

00:29:04.250 --> 00:29:06.462 To five years prior to the earliest

NOTE Confidence: 0.749362615454546

00:29:06.462 --> 00:29:08.089 colorectal cancer in the family.

NOTE Confidence: 0.749362615454546

00:29:08.090 --> 00:29:10.519 If that was diagnosed before the age

NOTE Confidence: 0.749362615454546

00:29:10.519 --> 00:29:13.210 of 25 or again. 34 M SH6 or PMS.

NOTE Confidence: 0.749362615454546

00:29:13.210 --> 00:29:14.034 Two carriers.

NOTE Confidence: 0.749362615454546

00:29:14.034 --> 00:29:16.455 So looking at this specific genetic

NOTE Confidence: 0.749362615454546

00:29:16.455 --> 00:29:18.585 defect and also the family history

NOTE Confidence: 0.749362615454546

00:29:18.585 --> 00:29:19.650 and what's happened

NOTE Confidence: 0.868767805833333

00:29:19.707 --> 00:29:22.060 with them. And we repeated every

NOTE Confidence: 0.868767805833333

00:29:22.060 --> 00:29:24.730 one to two years and again.

NOTE Confidence: 0.868767805833333

00:29:24.730 --> 00:29:26.963 The reason for that is because of

NOTE Confidence: 0.868767805833333

00:29:26.963 --> 00:29:29.339 how fast it cancers do develop,

NOTE Confidence: 0.868767805833333

00:29:29.340 --> 00:29:31.728 and there's good studies showing that

NOTE Confidence: 0.868767805833333

00:29:31.728 --> 00:29:34.260 repeating it every one to two years.

NOTE Confidence: 0.868767805833333

00:29:34.260 --> 00:29:36.276 The great majority of the cancers

NOTE Confidence: 0.868767805833333

00:29:36.276 --> 00:29:38.000 get caught right in time.

NOTE Confidence: 0.868767805833333

00:29:38.000 --> 00:29:43.328 At early stage the majority being able to be.

NOTE Confidence: 0.868767805833333

00:29:43.330 --> 00:29:45.736 Taken out in this copy clean

NOTE Confidence: 0.868767805833333

00:29:45.736 --> 00:29:46.939 then causing minimum.

NOTE Confidence: 0.868767805833333

00:29:46.940 --> 00:29:47.698 This disruption.

NOTE Confidence: 0.868767805833333

00:29:47.698 --> 00:29:50.351 Doing it this way and not finding

NOTE Confidence: 0.868767805833333

00:29:50.351 --> 00:29:52.769 them advanced cancers when it comes

NOTE Confidence: 0.868767805833333

00:29:52.769 --> 00:29:55.290 to stomach and small bowel cancer.

NOTE Confidence: 0.868767805833333

00:29:55.290 --> 00:29:57.006 We've seen a lot of variability

NOTE Confidence: 0.868767805833333

00:29:57.006 --> 00:29:58.879 depending on the continent and and

NOTE Confidence: 0.868767805833333

00:29:58.879 --> 00:30:00.227 that repeats everywhere actually.

NOTE Confidence: 0.868767805833333

00:30:00.230 --> 00:30:03.494 So the the incidence of overall incidents in

NOTE Confidence: 0.868767805833333

00:30:03.494 --> 00:30:06.570 the different regions of the world does also.

NOTE Confidence: 0.868767805833333

00:30:06.570 --> 00:30:08.831 Playing a role in the development of

NOTE Confidence: 0.868767805833333

00:30:08.831 --> 00:30:11.228 cancer in Lynch syndrome patients too.

NOTE Confidence: 0.868767805833333

00:30:11.230 --> 00:30:12.814 So for instance.

NOTE Confidence: 0.868767805833333

00:30:12.814 --> 00:30:14.398 Here in EU.

NOTE Confidence: 0.868767805833333

00:30:14.400 --> 00:30:17.292 S This really the risk is

NOTE Confidence: 0.868767805833333

00:30:17.292 --> 00:30:19.220 not that spectacularly high,

NOTE Confidence: 0.868767805833333

00:30:19.220 --> 00:30:21.870 and the server and surveillance

NOTE Confidence: 0.868767805833333

00:30:21.870 --> 00:30:25.384 has really not been shown to make

NOTE Confidence: 0.868767805833333

00:30:25.384 --> 00:30:27.720 a significant difference because,

NOTE Confidence: 0.868767805833333

00:30:27.720 --> 00:30:28.752 uh, because again,

NOTE Confidence: 0.868767805833333

00:30:28.752 --> 00:30:31.560 because of the risk not being that high,

NOTE Confidence: 0.868767805833333

00:30:31.560 --> 00:30:33.605 but certainly for individuals or

NOTE Confidence: 0.868767805833333

00:30:33.605 --> 00:30:36.290 families who are of Asian descent.

NOTE Confidence: 0.868767805833333

00:30:36.290 --> 00:30:40.100 We definitely an ask for EGD,

NOTE Confidence: 0.868767805833333

00:30:40.100 --> 00:30:41.975 with extended within OSCA P

NOTE Confidence: 0.868767805833333

00:30:41.975 --> 00:30:43.499 every three to five.

NOTE Confidence: 0.868767805833333

00:30:43.500 --> 00:30:45.744 Years beginning at 40 and every

NOTE Confidence: 0.868767805833333

00:30:45.744 --> 00:30:48.778 three to five years and the uh,

NOTE Confidence: 0.868767805833333

00:30:48.778 --> 00:30:51.163 there's some recent data that

NOTE Confidence: 0.868767805833333

00:30:51.163 --> 00:30:54.110 probably suggests that for the given,

NOTE Confidence: 0.868767805833333

00:30:54.110 --> 00:30:57.008 the small risk and the little that is added,

NOTE Confidence: 0.868767805833333

00:30:57.010 --> 00:30:58.255 adding any detour,

NOTE Confidence: 0.868767805833333

00:30:58.255 --> 00:31:00.330 colonoscopy probably doesn't make sense

NOTE Confidence: 0.868767805833333

00:31:00.330 --> 00:31:03.300 to do that for the overall population.

NOTE Confidence: 0.868767805833333

00:31:03.300 --> 00:31:05.220 But again, there's no strong data

NOTE Confidence: 0.868767805833333

00:31:05.220 --> 00:31:07.480 showing that baseline Helicobacter pylori,

NOTE Confidence: 0.868767805833333

00:31:07.480 --> 00:31:09.100 testing and eradication.

NOTE Confidence: 0.868767805833333

00:31:09.100 --> 00:31:09.718 We do that.

NOTE Confidence: 0.868767805833333

00:31:09.718 --> 00:31:10.130 We don't.

NOTE Confidence: 0.868767805833333

00:31:10.130 --> 00:31:12.830 We do not want to carcinogens

NOTE Confidence: 0.868767805833333

00:31:12.830 --> 00:31:14.162 heading back there.

NOTE Confidence: 0.868767805833333

00:31:14.162 --> 00:31:15.938 Tyler is a underlines,

NOTE Confidence: 0.868767805833333

00:31:15.940 --> 00:31:18.136 a gastric cancer and certainly we

NOTE Confidence: 0.868767805833333

00:31:18.136 --> 00:31:20.459 don't like to have a carcinogen

NOTE Confidence: 0.868767805833333

00:31:20.459 --> 00:31:22.823 on top of a susceptibility of

NOTE Confidence: 0.868767805833333

00:31:22.823 --> 00:31:24.740 colorectal of gastric cancer.

NOTE Confidence: 0.868767805833333

00:31:24.740 --> 00:31:27.337 So we try to test and eliminate.

NOTE Confidence: 0.868767805833333

00:31:27.340 --> 00:31:28.312 You know,

NOTE Confidence: 0.868767805833333

00:31:28.312 --> 00:31:30.595 individuals who test positive when

NOTE Confidence: 0.868767805833333

00:31:30.595 --> 00:31:32.270 it comes to endometrial cancer.

NOTE Confidence: 0.868767805833333

00:31:32.270 --> 00:31:35.770 No good data proving benefit from screening,

NOTE Confidence: 0.868767805833333

00:31:35.770 --> 00:31:37.960 but we do know that intermedia

NOTE Confidence: 0.868767805833333

00:31:37.960 --> 00:31:39.948 biopsies are highly sensitive and

NOTE Confidence: 0.868767805833333

00:31:39.948 --> 00:31:41.800 specific as diagnostic procedures,

NOTE Confidence: 0.868767805833333

00:31:41.800 --> 00:31:43.090 and that's what's being used

NOTE Confidence: 0.868767805833333

00:31:43.090 --> 00:31:44.380 every one to two years.

NOTE Confidence: 0.868767805833333

00:31:44.380 --> 00:31:46.996 Starting at age 30 to 35, trans.

NOTE Confidence: 0.868767805833333

00:31:46.996 --> 00:31:49.220 Vaginal ultrasound which is.

NOTE Confidence: 0.868767805833333

00:31:49.220 --> 00:31:49.690 Uh,

NOTE Confidence: 0.868767805833333

00:31:49.690 --> 00:31:52.510 used for Varian Cancer in premenopausal

NOTE Confidence: 0.868767805833333

00:31:52.510 --> 00:31:55.184 women is not recommended and

NOTE Confidence: 0.868767805833333

00:31:55.184 --> 00:31:58.124 hysterectomy is definitely a risk

NOTE Confidence: 0.868767805833333

00:31:58.124 --> 00:32:00.844 reducing option that works well

NOTE Confidence: 0.868767805833333

00:32:00.844 --> 00:32:03.460 and being well proven and it

NOTE Confidence: 0.868767805833333

00:32:03.460 --> 00:32:06.300 really needs to be typed in an

NOTE Confidence: 0.868767805833333

00:32:06.300 --> 00:32:08.260 individualized way and really trying

NOTE Confidence: 0.868767805833333

00:32:08.336 --> 00:32:11.296 to see if that can be done right

NOTE Confidence: 0.868767805833333

00:32:11.296 --> 00:32:13.348 after childbearing age is completed,

NOTE Confidence: 0.868767805833333

00:32:13.350 --> 00:32:15.300 but family history is important and

NOTE Confidence: 0.868767805833333

00:32:15.300 --> 00:32:17.200 genetic defect is important in order

NOTE Confidence: 0.868767805833333

00:32:17.200 --> 00:32:19.090 to really putting it all together and.

NOTE Confidence: 0.868767805833333

00:32:19.090 --> 00:32:21.463 And and counseling on when it's the

NOTE Confidence: 0.868767805833333

00:32:21.463 --> 00:32:23.769 right time for that hysterectomy.

NOTE Confidence: 0.868767805833333

00:32:23.770 --> 00:32:26.250 For ovarian cancer we mentioned

NOTE Confidence: 0.868767805833333

00:32:26.250 --> 00:32:28.730 before trans vaginal ultrasound or

NOTE Confidence: 0.868767805833333

00:32:28.814 --> 00:32:30.894 see a 125 are being used and we

NOTE Confidence: 0.868767805833333

00:32:30.894 --> 00:32:32.892 do know also that bilateral self

NOTE Confidence: 0.868767805833333

00:32:32.892 --> 00:32:35.268 Ingle S pingo fracta me definitely

NOTE Confidence: 0.868767805833333

00:32:35.268 --> 00:32:37.124 reduce the incidence of ovarian

NOTE Confidence: 0.868767805833333

00:32:37.124 --> 00:32:39.862 cancer and we would not do it for

NOTE Confidence: 0.868767805833333

00:32:39.862 --> 00:32:41.972 PMS two carriers because probably

NOTE Confidence: 0.868767805833333

00:32:41.972 --> 00:32:43.660 there's no increased risk

NOTE Confidence: 0.831592605

00:32:43.731 --> 00:32:45.777 in this group as we saw

NOTE Confidence: 0.831592605

00:32:45.777 --> 00:32:47.141 before for pancreas cancer.

NOTE Confidence: 0.831592605

00:32:47.150 --> 00:32:48.530 As we mentioned before,

NOTE Confidence: 0.831592605

00:32:48.530 --> 00:32:49.565 very clustered around.

NOTE Confidence: 0.831592605

00:32:49.570 --> 00:32:51.845 Emily Quan, I'm about this gene and

NOTE Confidence: 0.831592605

00:32:51.845 --> 00:32:54.702 that's the one that when there's a, uh,

NOTE Confidence: 0.831592605

00:32:54.702 --> 00:32:58.286 a family member who's had pancreas cancer.

NOTE Confidence: 0.831592605

00:32:58.290 --> 00:33:00.768 In this, have that mutation really

NOTE Confidence: 0.831592605

00:33:00.768 --> 00:33:03.147 recommend screening starting at age 50

NOTE Confidence: 0.831592605

00:33:03.147 --> 00:33:05.464 or 10 years earlier than the youngest

NOTE Confidence: 0.831592605

00:33:05.464 --> 00:33:07.586 pancreas cancer in the family for

NOTE Confidence: 0.831592605

00:33:07.586 --> 00:33:09.886 individuals with more than one first or

NOTE Confidence: 0.831592605

00:33:09.886 --> 00:33:11.326 second degree relative with pancreas,

NOTE Confidence: 0.831592605

00:33:11.330 --> 00:33:13.754 and they know carcinoma

NOTE Confidence: 0.831592605

00:33:13.754 --> 00:33:16.178 GUR still very unclear.

NOTE Confidence: 0.831592605

00:33:16.180 --> 00:33:17.750 Remember we talked that there's

NOTE Confidence: 0.831592605

00:33:17.750 --> 00:33:20.059 a lot of class ring around the.

NOTE Confidence: 0.831592605

00:33:20.060 --> 00:33:21.545 Gene and no,

NOTE Confidence: 0.831592605

00:33:21.545 --> 00:33:24.515 no clear evidence to support screening,

NOTE Confidence: 0.831592605

00:33:24.520 --> 00:33:28.456 but annual urinalysis is usually done.

NOTE Confidence: 0.831592605

00:33:28.460 --> 00:33:31.491 It's a cheap method and and there's

NOTE Confidence: 0.831592605

00:33:31.491 --> 00:33:34.051 some sporadic data that shows that

NOTE Confidence: 0.831592605

00:33:34.051 --> 00:33:36.802 that's been able to help in terms

NOTE Confidence: 0.831592605

00:33:36.884 --> 00:33:39.208 of identifying early lesions.

NOTE Confidence: 0.831592605

00:33:39.210 --> 00:33:41.530 Or as CNS cancer,

NOTE Confidence: 0.831592605

00:33:41.530 --> 00:33:44.550 which also for lynching there's a

NOTE Confidence: 0.831592605

00:33:44.550 --> 00:33:47.010 slightly increased risk annual physical

NOTE Confidence: 0.831592605

00:33:47.010 --> 00:33:49.130 examinations without neurological exam

NOTE Confidence: 0.831592605

00:33:49.130 --> 00:33:52.930 starting at age 25 and 30 is recommended,

NOTE Confidence: 0.831592605

00:33:52.930 --> 00:33:55.144 and yet we don't have strong data on that,

NOTE Confidence: 0.831592605

00:33:55.150 --> 00:33:57.170 and particularly because the risk

NOTE Confidence: 0.831592605

00:33:57.170 --> 00:33:59.190 is not that extraordinary high.

NOTE Confidence: 0.831592605

00:33:59.190 --> 00:34:00.958 How about surgical management?

NOTE Confidence: 0.831592605

00:34:00.958 --> 00:34:04.171 For once colon cancer is diagnosed there

NOTE Confidence: 0.831592605

00:34:04.171 --> 00:34:07.087 should be strong consideration for subtotal,

NOTE Confidence: 0.831592605

00:34:07.090 --> 00:34:08.288 subtotal colectomy.

NOTE Confidence: 0.831592605

00:34:08.288 --> 00:34:13.080 Uh and Elyria earlier Ecklund as Thomas is,

NOTE Confidence: 0.831592605

00:34:13.080 --> 00:34:15.114 and that's because again what we

NOTE Confidence: 0.831592605

00:34:15.114 --> 00:34:16.910 mentioned before the very high

NOTE Confidence: 0.831592605

00:34:16.910 --> 00:34:18.810 risk of developing another cancer.

NOTE Confidence: 0.831592605

00:34:18.810 --> 00:34:21.492 So it is important that surgeons

NOTE Confidence: 0.831592605

00:34:21.492 --> 00:34:24.300 do have it diagnosis before the

NOTE Confidence: 0.831592605

00:34:24.300 --> 00:34:26.156 upgrade and but again,

NOTE Confidence: 0.831592605

00:34:26.160 --> 00:34:27.108 as we mentioned before,

NOTE Confidence: 0.831592605

00:34:27.108 --> 00:34:29.381 if we are going to be of our patients

NOTE Confidence: 0.831592605

00:34:29.381 --> 00:34:31.229 are going to be very compliant and

NOTE Confidence: 0.831592605

00:34:31.283 --> 00:34:32.758 willing to have this colonoscopy

NOTE Confidence: 0.831592605

00:34:32.758 --> 00:34:34.233 every one to two years.

NOTE Confidence: 0.831592605

00:34:34.240 --> 00:34:36.420 That's a reasonable option too.

NOTE Confidence: 0.831592605

00:34:36.420 --> 00:34:38.359 But again, knowing that we do have

NOTE Confidence: 0.831592605

00:34:38.359 --> 00:34:40.229 a pretty high risk once we had.

NOTE Confidence: 0.831592605

00:34:40.230 --> 00:34:42.696 One colon cancer of developing a

NOTE Confidence: 0.831592605

00:34:42.696 --> 00:34:44.276 second one prophylactic surgery.

NOTE Confidence: 0.831592605

00:34:44.276 --> 00:34:44.654 Definitely,

NOTE Confidence: 0.831592605

00:34:44.654 --> 00:34:46.166 as we mentioned before,

NOTE Confidence: 0.831592605

00:34:46.170 --> 00:34:48.260 hysterectomy offer ectomy should be

NOTE Confidence: 0.831592605

00:34:48.260 --> 00:34:49.932 discussed with mutation carriers.

NOTE Confidence: 0.831592605

00:34:49.940 --> 00:34:52.115 After completion of childbearing age

NOTE Confidence: 0.831592605

00:34:52.115 --> 00:34:55.525 or also depending on the on the family

NOTE Confidence: 0.831592605

00:34:55.525 --> 00:34:57.450 history and situation that could

NOTE Confidence: 0.831592605

00:34:57.450 --> 00:35:00.770 be even earlier and we do know that

NOTE Confidence: 0.831592605

00:35:00.770 --> 00:35:03.310 that reduces endometrial and ovarian cancer.

NOTE Confidence: 0.831592605

00:35:03.310 --> 00:35:04.750 A prophylactic colectomy

NOTE Confidence: 0.831592605

00:35:04.750 --> 00:35:06.670 has not been recommended,

NOTE Confidence: 0.831592605

00:35:06.670 --> 00:35:08.166 but in chemo prophylaxis

NOTE Confidence: 0.831592605

00:35:08.166 --> 00:35:10.410 is used and we do use.

NOTE Confidence: 0.831592605

00:35:10.410 --> 00:35:13.178 That we have good data and and two

NOTE Confidence: 0.831592605

00:35:13.178 --> 00:35:15.210 adult aspirins a day for at least

NOTE Confidence: 0.831592605

00:35:15.210 --> 00:35:17.427 a year and a half of continuing

NOTE Confidence: 0.831592605

00:35:17.427 --> 00:35:20.049 intake every day with a significant

NOTE Confidence: 0.831592605

00:35:20.049 --> 00:35:21.720 reduction in colorectal cancer.

NOTE Confidence: 0.831592605

00:35:21.720 --> 00:35:24.485 The problem is that toxicity of two

NOTE Confidence: 0.831592605

00:35:24.485 --> 00:35:26.928 adult aspirins is quite significant,

NOTE Confidence: 0.831592605

00:35:26.930 --> 00:35:30.440 particularly among the older individuals.

NOTE Confidence: 0.831592605

00:35:30.440 --> 00:35:33.314 So we do individualize the option

NOTE Confidence: 0.831592605

00:35:33.314 --> 00:35:36.769 here and also we really pending on

NOTE Confidence: 0.831592605

00:35:36.769 --> 00:35:39.557 more data on lower doses particularly.

NOTE Confidence: 0.831592605

00:35:39.557 --> 00:35:43.070 Now there are studies are looking at one,

NOTE Confidence: 0.831592605

00:35:43.070 --> 00:35:46.782 an adult aspirin and one baby aspirin a day.

NOTE Confidence: 0.831592605

00:35:46.782 --> 00:35:48.950 If see if they do have that effect.

NOTE Confidence: 0.831592605

00:35:48.950 --> 00:35:51.242 Because certainly baby aspirin has been

NOTE Confidence: 0.831592605

00:35:51.242 --> 00:35:53.706 shown to reduce colorectal cancer in

NOTE Confidence: 0.831592605

00:35:53.706 --> 00:35:55.896 the sporadic population quite dramatically,

NOTE Confidence: 0.831592605

00:35:55.900 --> 00:35:58.126 so we're hoping that lower doses will

NOTE Confidence: 0.831592605

00:35:58.126 --> 00:36:00.633 also have a significant effect among

NOTE Confidence: 0.831592605

00:36:00.633 --> 00:36:03.108 individuals who have Lynch syndrome.

NOTE Confidence: 0.831592605

00:36:03.110 --> 00:36:04.272 Switching gears,

NOTE Confidence: 0.831592605

00:36:04.272 --> 00:36:07.177 much less common but certainly

NOTE Confidence: 0.831592605

00:36:07.177 --> 00:36:08.920 very significant morbidity

NOTE Confidence: 0.826281593333333

00:36:09.000 --> 00:36:11.756 and mortality, and these APC gene.

NOTE Confidence: 0.826281593333333

00:36:11.756 --> 00:36:14.240 It's causing familial other matters purposes,

NOTE Confidence: 0.826281593333333

00:36:14.240 --> 00:36:17.397 with the very first gene that was

NOTE Confidence: 0.826281593333333

00:36:17.397 --> 00:36:20.797 identified to cause the GI Cancer syndrome.

NOTE Confidence: 0.826281593333333

00:36:20.800 --> 00:36:22.936 This is not a simple dominant disease again,

NOTE Confidence: 0.826281593333333

00:36:22.940 --> 00:36:25.020 so we just one mutated.

NOTE Confidence: 0.826281593333333

00:36:25.020 --> 00:36:27.380 A little is enough to cause the disease.

NOTE Confidence: 0.826281593333333

00:36:27.380 --> 00:36:28.880 Individuals develop hundreds

NOTE Confidence: 0.826281593333333

00:36:28.880 --> 00:36:31.380 to thousands of other numbers,

NOTE Confidence: 0.826281593333333

00:36:31.380 --> 00:36:33.230 polyps the penetrance is very,

NOTE Confidence: 0.826281593333333

00:36:33.230 --> 00:36:35.729 very high for both adenomas and cancer.

NOTE Confidence: 0.826281593333333

00:36:35.730 --> 00:36:37.818 Almost everyone if we don't remove

NOTE Confidence: 0.826281593333333

00:36:37.818 --> 00:36:39.952 the colon and cancer develops again

NOTE Confidence: 0.826281593333333

00:36:39.952 --> 00:36:42.660 in almost 100% of cases by the 40s.

NOTE Confidence: 0.826281593333333

00:36:42.660 --> 00:36:44.816 If there is no collective before that,

NOTE Confidence: 0.826281593333333

00:36:44.820 --> 00:36:46.160 the onset of the disease,

NOTE Confidence: 0.826281593333333

00:36:46.160 --> 00:36:48.680 usually in the teens and the noble

NOTE Confidence: 0.826281593333333

00:36:48.680 --> 00:36:50.680 mutations are common cause to 30%,

NOTE Confidence: 0.826281593333333

00:36:50.680 --> 00:36:52.696 we may see at the noble mutation

NOTE Confidence: 0.826281593333333

00:36:52.696 --> 00:36:54.638 meaning that there is no family history

NOTE Confidence: 0.826281593333333

00:36:54.638 --> 00:36:56.521 and all of a sudden this patient

NOTE Confidence: 0.826281593333333

00:36:56.521 --> 00:36:58.600 does have a mutation from that on.

NOTE Confidence: 0.826281593333333

00:36:58.600 --> 00:37:00.580 These individual can transmit

NOTE Confidence: 0.826281593333333

00:37:00.580 --> 00:37:03.055 that mutation to the offspring,

NOTE Confidence: 0.826281593333333

00:37:03.060 --> 00:37:05.279 so that's very different from Lynch syndrome,

NOTE Confidence: 0.826281593333333

00:37:05.280 --> 00:37:07.730 where the immense majority of

NOTE Confidence: 0.826281593333333

00:37:07.730 --> 00:37:10.180 the cases are funding vacations.

NOTE Confidence: 0.826281593333333

00:37:10.180 --> 00:37:12.765 They've been that happened many

NOTE Confidence: 0.826281593333333

00:37:12.765 --> 00:37:16.020 generations ago, so there's a almost.

NOTE Confidence: 0.826281593333333

00:37:16.020 --> 00:37:19.726 Always a family history and and family

NOTE Confidence: 0.826281593333333

00:37:19.726 --> 00:37:22.780 members who will have the mutation

NOTE Confidence: 0.826281593333333

00:37:22.878 --> 00:37:25.825 when it comes to cancers in faps.

NOTE Confidence: 0.826281593333333

00:37:25.830 --> 00:37:27.565 The great majority of individuals

NOTE Confidence: 0.826281593333333

00:37:27.565 --> 00:37:29.638 will have their colectomy before they

NOTE Confidence: 0.826281593333333

00:37:29.638 --> 00:37:31.306 develop cancer and they do well,

NOTE Confidence: 0.826281593333333

00:37:31.310 --> 00:37:34.124 but this is really the biggest nightmare

NOTE Confidence: 0.826281593333333

00:37:34.130 --> 00:37:35.894 for us taking care of these patients,

NOTE Confidence: 0.826281593333333

00:37:35.900 --> 00:37:38.856 which are the duodenal cancers?

NOTE Confidence: 0.826281593333333

00:37:38.856 --> 00:37:42.492 5 to 11% of these individuals

NOTE Confidence: 0.826281593333333

00:37:42.492 --> 00:37:45.750 do develop these cancers and.

NOTE Confidence: 0.826281593333333

00:37:45.750 --> 00:37:48.284 Uh, and uh and they are important.

NOTE Confidence: 0.826281593333333

00:37:48.290 --> 00:37:50.600 A cause of mobility and the most

NOTE Confidence: 0.826281593333333

00:37:50.600 --> 00:37:52.889 important cause of mortality nowadays.

NOTE Confidence: 0.826281593333333

00:37:52.890 --> 00:37:55.146 There are other cancer type pancreas

NOTE Confidence: 0.826281593333333

00:37:55.146 --> 00:37:57.310 or thyroid or middle blastoma.

NOTE Confidence: 0.826281593333333

00:37:57.310 --> 00:37:58.534 An inhibitor blastoma,

NOTE Confidence: 0.826281593333333

00:37:58.534 --> 00:38:00.982 particularly in very very young kids,

NOTE Confidence: 0.826281593333333

00:38:00.990 --> 00:38:04.910 but the risks are not extremely high.

NOTE Confidence: 0.826281593333333

00:38:04.910 --> 00:38:07.584 But anyway, something to pay attention to.

NOTE Confidence: 0.826281593333333

00:38:07.590 --> 00:38:12.350 And interestingly, there's these.

NOTE Confidence: 0.826281593333333

00:38:12.350 --> 00:38:15.038 Lose association that we call genotype

NOTE Confidence: 0.826281593333333

00:38:15.038 --> 00:38:17.233 phenotype meaning depending or where

NOTE Confidence: 0.826281593333333

00:38:17.233 --> 00:38:19.550 the genetic defect in this genies we

NOTE Confidence: 0.826281593333333

00:38:19.550 --> 00:38:21.910 may have different manifestations.

NOTE Confidence: 0.826281593333333

00:38:21.910 --> 00:38:23.866 For instance desmoid tumors.

NOTE Confidence: 0.826281593333333

00:38:23.866 --> 00:38:26.311 This this connective tissue tumors

NOTE Confidence: 0.826281593333333

00:38:26.311 --> 00:38:29.498 that often can be a true nightmare for

NOTE Confidence: 0.826281593333333

00:38:29.498 --> 00:38:31.850 patients with faps because of their

NOTE Confidence: 0.826281593333333

00:38:31.850 --> 00:38:34.910 their Mass Effect pushes other organs,

NOTE Confidence: 0.826281593333333

00:38:34.910 --> 00:38:36.838 particularly in the abdomen.

NOTE Confidence: 0.826281593333333

00:38:36.838 --> 00:38:40.208 Those are usually clustered in the three

NOTE Confidence: 0.826281593333333

00:38:40.208 --> 00:38:43.015 prime region of the gene with other.

NOTE Confidence: 0.826281593333333

00:38:43.020 --> 00:38:44.928 A characteristic like Garner

NOTE Confidence: 0.826281593333333

00:38:44.928 --> 00:38:47.790 syndrome with a soft tissue tumors

NOTE Confidence: 0.826281593333333

00:38:47.868 --> 00:38:50.465 that those will be much more often

NOTE Confidence: 0.826281593333333

00:38:50.465 --> 00:38:53.020 seen when they are found in meat.

NOTE Confidence: 0.826281593333333

00:38:53.020 --> 00:38:54.502 They are found in medications and

NOTE Confidence: 0.826281593333333

00:38:54.502 --> 00:38:56.386 what we call the Mediator, Mediator,

NOTE Confidence: 0.826281593333333

00:38:56.386 --> 00:38:58.366 cluster region in the action.

NOTE Confidence: 0.826281593333333

00:38:58.370 --> 00:39:00.650 The last action of the gene.

NOTE Confidence: 0.826281593333333

00:39:00.650 --> 00:39:02.258 So at any rate,

NOTE Confidence: 0.826281593333333

00:39:02.258 --> 00:39:04.268 forms usually clustering and mutations

NOTE Confidence: 0.826281593333333

00:39:04.268 --> 00:39:07.219 in the five prime end of the gene two.

NOTE Confidence: 0.826281593333333

00:39:07.220 --> 00:39:08.928 So there's some correlation

NOTE Confidence: 0.826281593333333

00:39:08.928 --> 00:39:11.490 between where the mutation is and

NOTE Confidence: 0.826281593333333

00:39:11.567 --> 00:39:13.597 what the actual phenotype is.

NOTE Confidence: 0.826281593333333

00:39:13.600 --> 00:39:17.020 Though this is far from perfect

NOTE Confidence: 0.826281593333333

00:39:17.020 --> 00:39:20.485 and this is a little bit harder.

NOTE Confidence: 0.826281593333333

00:39:20.490 --> 00:39:23.234 Be arguably almost anyone when we see

NOTE Confidence: 0.826281593333333

00:39:23.234 --> 00:39:25.304 all these problems really suspect

NOTE Confidence: 0.826281593333333

00:39:25.304 --> 00:39:28.188 easily that the patient may have faps,

NOTE Confidence: 0.826281593333333

00:39:28.190 --> 00:39:28.723 but,

NOTE Confidence: 0.826281593333333

00:39:28.723 --> 00:39:29.256 uh,

NOTE Confidence: 0.826281593333333

00:39:29.256 --> 00:39:32.454 but attenuated faps is is much

NOTE Confidence: 0.826281593333333

00:39:32.454 --> 00:39:34.190 more complicated issue.

NOTE Confidence: 0.826281593333333

00:39:34.190 --> 00:39:36.248 Usually it's less than 100 polyps,

NOTE Confidence: 0.826281593333333

00:39:36.250 --> 00:39:37.974 located predominantly in the

NOTE Confidence: 0.826281593333333

00:39:37.974 --> 00:39:40.560 right colon and and those are

NOTE Confidence: 0.795267754

00:39:40.637 --> 00:39:43.485 policies that add up over time and many

NOTE Confidence: 0.795267754

00:39:43.485 --> 00:39:46.061 times we do see patients who develop

NOTE Confidence: 0.795267754

00:39:46.061 --> 00:39:48.502 20 polyps now and 15 polyps later,

NOTE Confidence: 0.795267754

00:39:48.502 --> 00:39:51.110 and often we just done added app and

NOTE Confidence: 0.795267754

00:39:51.179 --> 00:39:53.643 say well this is looking like there

NOTE Confidence: 0.795267754

00:39:53.643 --> 00:39:56.139 is something going on and they it may

NOTE Confidence: 0.795267754

00:39:56.139 --> 00:39:57.953 be a form of attenuated polyposis.

NOTE Confidence: 0.795267754

00:39:57.953 --> 00:40:00.611 So important to suspect when we

NOTE Confidence: 0.795267754

00:40:00.611 --> 00:40:02.730 have particularly a number of

NOTE Confidence: 0.795267754

00:40:02.730 --> 00:40:04.515 polyps that's in the 20s.

NOTE Confidence: 0.795267754

00:40:04.520 --> 00:40:06.845 30 uh, because then suspicion

NOTE Confidence: 0.795267754

00:40:06.845 --> 00:40:09.170 for that should be high.

NOTE Confidence: 0.795267754

00:40:09.170 --> 00:40:10.820 The answer of polyps and cancers,

NOTE Confidence: 0.795267754

00:40:10.820 --> 00:40:12.804 usually ten years later,

NOTE Confidence: 0.795267754

00:40:12.804 --> 00:40:15.780 on average than faps and and.

NOTE Confidence: 0.795267754

00:40:15.780 --> 00:40:17.996 But again, there's a lot of variability here,

NOTE Confidence: 0.795267754

00:40:18.000 --> 00:40:20.620 and these individuals do also

NOTE Confidence: 0.795267754

00:40:20.620 --> 00:40:22.716 develop funding gland polyps,

NOTE Confidence: 0.795267754

00:40:22.720 --> 00:40:25.560 often in the stomach, and they can proceed.

NOTE Confidence: 0.795267754

00:40:25.560 --> 00:40:27.240 The development of colon polyps,

NOTE Confidence: 0.795267754

00:40:27.240 --> 00:40:29.487 so particularly when we do and asked

NOTE Confidence: 0.795267754

00:40:29.487 --> 00:40:32.322 is where we see funding line polyps in

NOTE Confidence: 0.795267754

00:40:32.322 --> 00:40:34.730 individuals who do not have protein.

NOTE Confidence: 0.795267754

00:40:34.730 --> 00:40:36.510 I'm thinking there's there

NOTE Confidence: 0.795267754

00:40:36.510 --> 00:40:38.735 goes an anti acid medication.

NOTE Confidence: 0.795267754

00:40:38.740 --> 00:40:40.075 Strong antacid medications,

NOTE Confidence: 0.795267754

00:40:40.075 --> 00:40:43.190 which they also cause funding lamb polyps.

NOTE Confidence: 0.795267754

00:40:43.190 --> 00:40:45.200 Then we suspect that there could

NOTE Confidence: 0.795267754

00:40:45.200 --> 00:40:47.266 be some form of Poly policies

NOTE Confidence: 0.795267754

00:40:47.266 --> 00:40:49.360 and we need to pursue that.

NOTE Confidence: 0.795267754

00:40:49.360 --> 00:40:52.048 So what do we do when we have

NOTE Confidence: 0.795267754

00:40:52.048 --> 00:40:54.005 it diagnosed individual with a

NOTE Confidence: 0.795267754

00:40:54.005 --> 00:40:56.805 with a mutation in the APC gene?

NOTE Confidence: 0.795267754

00:40:56.810 --> 00:41:01.448 Well, we start colonoscopies at each.

NOTE Confidence: 0.795267754

00:41:01.450 --> 00:41:05.070 15 and every 12 months.

NOTE Confidence: 0.795267754

00:41:05.070 --> 00:41:05.972 In dumb.

NOTE Confidence: 0.795267754

00:41:05.972 --> 00:41:06.874 Once, uh,

NOTE Confidence: 0.795267754

00:41:06.874 --> 00:41:09.580 the number of polyps becomes too

NOTE Confidence: 0.795267754

00:41:09.669 --> 00:41:12.639 overwhelming to be able to really

NOTE Confidence: 0.795267754

00:41:12.639 --> 00:41:15.330 keep up removing those polyps.

NOTE Confidence: 0.795267754

00:41:15.330 --> 00:41:17.260 Then that's when surgery is

NOTE Confidence: 0.795267754

00:41:17.260 --> 00:41:18.804 indicated in those cases,

NOTE Confidence: 0.795267754

00:41:18.810 --> 00:41:20.856 and and there are two options,

NOTE Confidence: 0.795267754

00:41:20.860 --> 00:41:24.822 one of them is collecting with ileal

NOTE Confidence: 0.795267754

00:41:24.822 --> 00:41:26.349 rectal anastomosis, particularly,

NOTE Confidence: 0.795267754

00:41:26.349 --> 00:41:28.683 the ****** is not very effective

NOTE Confidence: 0.795267754

00:41:28.683 --> 00:41:30.610 with a lot of polyps,

NOTE Confidence: 0.795267754

00:41:30.610 --> 00:41:31.935 and then the ****** need

NOTE Confidence: 0.795267754

00:41:31.935 --> 00:41:33.680 surveillance every 6 to 12 months.

NOTE Confidence: 0.795267754

00:41:33.680 --> 00:41:34.218 With sigmoid,

NOTE Confidence: 0.795267754

00:41:34.218 --> 00:41:34.487 osca,

NOTE Confidence: 0.795267754

00:41:34.487 --> 00:41:36.848 P or the other option is a little

NOTE Confidence: 0.795267754

00:41:36.848 --> 00:41:37.668 pouch channel.

NOTE Confidence: 0.795267754

00:41:37.670 --> 00:41:39.222 Analyzed Moses and uh,

NOTE Confidence: 0.795267754

00:41:39.222 --> 00:41:42.903 and in this case the ****** is gone too.

NOTE Confidence: 0.795267754

00:41:42.903 --> 00:41:46.060 But what the pouch which is made

NOTE Confidence: 0.795267754

00:41:46.169 --> 00:41:48.979 of small bowel does develop.

NOTE Confidence: 0.795267754

00:41:48.980 --> 00:41:51.605 Or that's a often develop

NOTE Confidence: 0.795267754

00:41:51.605 --> 00:41:53.705 polyps in there too,

NOTE Confidence: 0.795267754

00:41:53.710 --> 00:41:55.901 and that needs to release as much

NOTE Confidence: 0.795267754

00:41:55.901 --> 00:41:58.803 as the other as much as the dealer

NOTE Confidence: 0.795267754

00:41:58.803 --> 00:42:00.315 rectal anastomosis wants to.

NOTE Confidence: 0.795267754

00:42:00.320 --> 00:42:02.700 And if there are large or flat

NOTE Confidence: 0.795267754

00:42:02.700 --> 00:42:04.489 lesions or lesions with bill,

NOTE Confidence: 0.795267754

00:42:04.490 --> 00:42:06.110 is Histology or high grade

NOTE Confidence: 0.795267754

00:42:06.110 --> 00:42:08.150 dysplasia then those need to match.

NOTE Confidence: 0.795267754

00:42:08.150 --> 00:42:11.438 Closer surveillance when it comes to

NOTE Confidence: 0.795267754

00:42:11.438 --> 00:42:13.630 duodenal periampullary cancer again.

NOTE Confidence: 0.795267754

00:42:13.630 --> 00:42:14.917 Small bowel cancers.

NOTE Confidence: 0.795267754

00:42:14.917 --> 00:42:17.062 One of the biggest nightmares

NOTE Confidence: 0.795267754

00:42:17.062 --> 00:42:19.697 that we have with FAP patients.

NOTE Confidence: 0.795267754

00:42:19.700 --> 00:42:21.920 We do upper endoscopy with side

NOTE Confidence: 0.795267754

00:42:21.920 --> 00:42:24.506 viewing scopes to make sure that we

NOTE Confidence: 0.795267754

00:42:24.506 --> 00:42:26.907 see well the Impala of batter batter,

NOTE Confidence: 0.795267754

00:42:26.910 --> 00:42:30.000 which is one of the main

NOTE Confidence: 0.795267754

00:42:30.000 --> 00:42:31.939 problems developing adenomas and

NOTE Confidence: 0.795267754

00:42:31.939 --> 00:42:34.304 later cancers in that area.

NOTE Confidence: 0.795267754

00:42:34.310 --> 00:42:38.680 And we do start starting around age 20 to 25.

NOTE Confidence: 0.795267754

00:42:38.680 --> 00:42:40.328 For gastric cancer prevention,

NOTE Confidence: 0.795267754

00:42:40.328 --> 00:42:41.564 as we mentioned,

NOTE Confidence: 0.795267754

00:42:41.570 --> 00:42:43.604 many of these patients with FFP

NOTE Confidence: 0.795267754

00:42:43.604 --> 00:42:45.734 do have funded gland polyps and

NOTE Confidence: 0.795267754

00:42:45.734 --> 00:42:47.846 if they have even focal low

NOTE Confidence: 0.795267754

00:42:47.846 --> 00:42:50.004 grade dysplasia and none of them

NOTE Confidence: 0.795267754

00:42:50.004 --> 00:42:51.734 are particularly large they are

NOTE Confidence: 0.795267754

00:42:51.734 --> 00:42:53.850 tend to be very benign and they

NOTE Confidence: 0.795267754

00:42:53.850 --> 00:42:55.030 won't transform into cancer.

NOTE Confidence: 0.795267754

00:42:55.030 --> 00:42:57.271 Now we we see some of them that are

NOTE Confidence: 0.795267754

00:42:57.271 --> 00:42:59.828 too large or larger than one centimeter

NOTE Confidence: 0.7407378185

00:42:59.830 --> 00:43:02.721 or they have read displeasure then the

NOTE Confidence: 0.7407378185

00:43:02.721 --> 00:43:06.027 risk of cancer does increase and and we

NOTE Confidence: 0.7407378185

00:43:06.027 --> 00:43:08.938 may end up even indicating distract me so.

NOTE Confidence: 0.7407378185

00:43:08.938 --> 00:43:10.774 Very important to follow that app

NOTE Confidence: 0.7407378185

00:43:10.774 --> 00:43:12.955 even though the majority of cases do,

NOTE Confidence: 0.7407378185

00:43:12.960 --> 00:43:14.556 they behave never nine.

NOTE Confidence: 0.7407378185

00:43:14.556 --> 00:43:16.950 Wait and for thyroid cancer risks

NOTE Confidence: 0.7407378185

00:43:17.025 --> 00:43:19.057 the recommendation is ultrasounds

NOTE Confidence: 0.7407378185

00:43:19.057 --> 00:43:21.654 and repeating them every two to

NOTE Confidence: 0.7407378185

00:43:21.654 --> 00:43:23.628 five years just to make sure we're

NOTE Confidence: 0.7407378185

00:43:23.628 --> 00:43:25.420 not missing anything there.

NOTE Confidence: 0.7407378185

00:43:25.420 --> 00:43:26.980 For the attenuated forms,

NOTE Confidence: 0.7407378185

00:43:26.980 --> 00:43:29.760 it really what informs what we do

NOTE Confidence: 0.7407378185

00:43:29.760 --> 00:43:31.968 really depends on the Poly burden.

NOTE Confidence: 0.7407378185

00:43:31.970 --> 00:43:33.834 And as we mentioned,

NOTE Confidence: 0.7407378185

00:43:33.834 --> 00:43:35.698 there's a great variability.

NOTE Confidence: 0.7407378185

00:43:35.700 --> 00:43:39.312 Some of them have a Poly burden

NOTE Confidence: 0.7407378185

00:43:39.312 --> 00:43:40.860 that it's very.

NOTE Confidence: 0.7407378185

00:43:40.860 --> 00:43:41.964 Relatively easy to handle,

NOTE Confidence: 0.7407378185

00:43:41.964 --> 00:43:43.068 and the scopic Lee,

NOTE Confidence: 0.7407378185

00:43:43.070 --> 00:43:45.079 meaning that we can remove good number

NOTE Confidence: 0.7407378185

00:43:45.079 --> 00:43:47.167 of problems every time we do colonoscopy.

NOTE Confidence: 0.7407378185

00:43:47.170 --> 00:43:49.258 Then we just do colonoscopies and

NOTE Confidence: 0.7407378185

00:43:49.258 --> 00:43:50.959 polypectomy everyone to two years

NOTE Confidence: 0.7407378185

00:43:50.959 --> 00:43:52.716 and in many cases will be able

NOTE Confidence: 0.7407378185

00:43:52.716 --> 00:43:54.585 to keep up with those polyps and

NOTE Confidence: 0.7407378185

00:43:54.585 --> 00:43:56.786 there will be no need for surgery.

NOTE Confidence: 0.7407378185

00:43:56.786 --> 00:43:59.444 After endoscopy again needs to be

NOTE Confidence: 0.7407378185

00:43:59.444 --> 00:44:02.325 done for the small bowel cancer

NOTE Confidence: 0.7407378185

00:44:02.325 --> 00:44:06.555 risk and adenomas and Anne Anne.

NOTE Confidence: 0.7407378185

00:44:06.560 --> 00:44:08.396 At Chemoprevention is another

NOTE Confidence: 0.7407378185

00:44:08.396 --> 00:44:11.150 option here and Slingback is the

NOTE Confidence: 0.7407378185

00:44:11.225 --> 00:44:14.442 most well established A1 and this

NOTE Confidence: 0.7407378185

00:44:14.442 --> 00:44:17.492 is particularly use and it's very

NOTE Confidence: 0.7407378185

00:44:17.492 --> 00:44:19.572 much focused on individuals who

NOTE Confidence: 0.7407378185

00:44:19.572 --> 00:44:22.092 already had surgery in who have

NOTE Confidence: 0.7407378185

00:44:22.092 --> 00:44:24.208 either remaining ****** or pouch

NOTE Confidence: 0.7407378185

00:44:24.208 --> 00:44:26.962 to try to reduce the development

NOTE Confidence: 0.7407378185

00:44:26.962 --> 00:44:29.098 of products in this area.

NOTE Confidence: 0.7407378185

00:44:29.100 --> 00:44:31.333 When we have a Poly burden that

NOTE Confidence: 0.7407378185

00:44:31.333 --> 00:44:33.605 we just can't handle in this

NOTE Confidence: 0.7407378185

00:44:33.605 --> 00:44:35.665 completely anymore then that's when

NOTE Confidence: 0.7407378185

00:44:35.665 --> 00:44:38.185 we will suggest colectomy again.

NOTE Confidence: 0.7407378185

00:44:38.185 --> 00:44:41.575 We see there a erectile anastomosis

NOTE Confidence: 0.7407378185

00:44:41.575 --> 00:44:43.760 or proper colectomy,

NOTE Confidence: 0.7407378185

00:44:43.760 --> 00:44:45.776 and the creation of the pouch.

NOTE Confidence: 0.7407378185

00:44:45.780 --> 00:44:47.946 So it's really how the patient

NOTE Confidence: 0.7407378185

00:44:47.946 --> 00:44:49.760 behaves in terms of how,

NOTE Confidence: 0.7407378185

00:44:49.760 --> 00:44:53.096 how many polyps the patient develops,

NOTE Confidence: 0.7407378185

00:44:53.100 --> 00:44:54.496 how fast they developed,

NOTE Confidence: 0.7407378185

00:44:54.496 --> 00:44:57.295 and that will really informs us if we

NOTE Confidence: 0.7407378185

00:44:57.295 --> 00:44:59.521 can really keep up with removal and

NOTE Confidence: 0.7407378185

00:44:59.521 --> 00:45:01.664 topically or at some point we decide

NOTE Confidence: 0.7407378185

00:45:01.664 --> 00:45:04.049 that that's not safe anymore and we

NOTE Confidence: 0.7407378185

00:45:04.049 --> 00:45:06.467 need to proceed with the surgery.

NOTE Confidence: 0.7407378185

00:45:06.470 --> 00:45:09.638 And this is the newer a Poly process.

NOTE Confidence: 0.7407378185

00:45:09.640 --> 00:45:11.944 One of the newer polyposis syndromes

NOTE Confidence: 0.7407378185

00:45:11.944 --> 00:45:13.860 that we're less familiar with,

NOTE Confidence: 0.7407378185

00:45:13.860 --> 00:45:16.716 uh, that we called MAP or myh

NOTE Confidence: 0.7407378185

00:45:16.716 --> 00:45:17.940 associated public process.

NOTE Confidence: 0.7407378185

00:45:17.940 --> 00:45:18.195 Remember,

NOTE Confidence: 0.7407378185

00:45:18.195 --> 00:45:20.235 we talked that this is an auto somal,

NOTE Confidence: 0.7407378185

00:45:20.240 --> 00:45:22.739 recessive meaning that we do need mum,

NOTE Confidence: 0.7407378185

00:45:22.740 --> 00:45:25.456 and that mum the budget for mum

NOTE Confidence: 0.7407378185

00:45:25.456 --> 00:45:28.440 and the budget from that in order

NOTE Confidence: 0.7407378185

00:45:28.440 --> 00:45:30.600 to really have the disease.

NOTE Confidence: 0.7407378185

00:45:30.600 --> 00:45:32.022 That means that most of the

NOTE Confidence: 0.7407378185

00:45:32.022 --> 00:45:33.640 time we would skip generations,

NOTE Confidence: 0.7407378185

00:45:33.640 --> 00:45:35.831 so mum and that would not have

NOTE Confidence: 0.7407378185

00:45:35.831 --> 00:45:36.770 the disease yet.

NOTE Confidence: 0.7407378185

00:45:36.770 --> 00:45:38.230 You could have sibling schools,

NOTE Confidence: 0.7407378185

00:45:38.230 --> 00:45:39.922 have it if they inherited both

NOTE Confidence: 0.7407378185

00:45:39.922 --> 00:45:41.569 bad genes from mom and Dad.

NOTE Confidence: 0.7407378185

00:45:41.570 --> 00:45:41.882 So,

NOTE Confidence: 0.7407378185

00:45:41.882 --> 00:45:44.378 but a third close to a third of

NOTE Confidence: 0.7407378185

00:45:44.378 --> 00:45:47.019 patients who have a typical familiar

NOTE Confidence: 0.7407378185

00:45:47.019 --> 00:45:48.819 level numbers public process,

NOTE Confidence: 0.7407378185

00:45:48.820 --> 00:45:50.829 we know that they look like adenomatous

NOTE Confidence: 0.7407378185

00:45:50.829 --> 00:45:52.701 polyp policies and do not have an

NOTE Confidence: 0.7407378185

00:45:52.701 --> 00:45:54.330 APC mutation where they will have is.

NOTE Confidence: 0.7407378185

00:45:54.330 --> 00:45:56.355 Actually these two mutations in

NOTE Confidence: 0.7407378185

00:45:56.355 --> 00:45:59.178 the emoji and a quarter of the

NOTE Confidence: 0.7407378185

00:45:59.178 --> 00:46:01.344 patients who have between 10 and

NOTE Confidence: 0.7407378185

00:46:01.344 --> 00:46:04.126 100 women of 30 polyps will have

NOTE Confidence: 0.7407378185

00:46:04.126 --> 00:46:06.111 my limitations in their bodies.

NOTE Confidence: 0.7407378185

00:46:06.120 --> 00:46:08.120 So particularly in these individuals.

NOTE Confidence: 0.7407378185

00:46:08.120 --> 00:46:10.658 That looked more like attenuated polyposis.

NOTE Confidence: 0.76990028

00:46:10.660 --> 00:46:13.415 That's where the that the the, the,

NOTE Confidence: 0.76990028

00:46:13.415 --> 00:46:16.320 the line is a little bit blurred

NOTE Confidence: 0.76990028

00:46:16.320 --> 00:46:19.418 with the attenuated forms of IPC,

NOTE Confidence: 0.76990028

00:46:19.420 --> 00:46:21.400 the age of onset, 40s, fifties,

NOTE Confidence: 0.76990028

00:46:21.400 --> 00:46:24.016 risk of cancer. Very, very high,

NOTE Confidence: 0.76990028

00:46:24.016 --> 00:46:26.824 almost complete penetrance by age 60,

NOTE Confidence: 0.76990028

00:46:26.830 --> 00:46:28.978 not 40 like in every people.

NOTE Confidence: 0.76990028

00:46:28.980 --> 00:46:31.160 Page 60 the great majority,

NOTE Confidence: 0.76990028

00:46:31.160 --> 00:46:33.862 if they did not have their polyps

NOTE Confidence: 0.76990028

00:46:33.862 --> 00:46:35.690 removed or surgery removed,

NOTE Confidence: 0.76990028

00:46:35.690 --> 00:46:39.365 and the big the main differences between.

NOTE Confidence: 0.76990028

00:46:39.370 --> 00:46:41.570 AMFAP and a map again.

NOTE Confidence: 0.76990028

00:46:41.570 --> 00:46:45.332 The dominant a pattern versus recessive

NOTE Confidence: 0.76990028

00:46:45.332 --> 00:46:49.210 pattern for a map number of polyps.

NOTE Confidence: 0.76990028

00:46:49.210 --> 00:46:50.863 Again for faps.

NOTE Confidence: 0.76990028

00:46:50.863 --> 00:46:54.721 Typical faps more than 100 polyps for

NOTE Confidence: 0.76990028

00:46:54.721 --> 00:46:58.027 map smaller number less than 100.

NOTE Confidence: 0.76990028

00:46:58.030 --> 00:46:59.172 Many times.

NOTE Confidence: 0.76990028

00:46:59.172 --> 00:47:03.101 Agent diagnosis older for map and a big

NOTE Confidence: 0.76990028

00:47:03.101 --> 00:47:04.886 difference in extra colonic disease,

NOTE Confidence: 0.76990028

00:47:04.890 --> 00:47:07.122 particularly upper GI tract

NOTE Confidence: 0.76990028

00:47:07.122 --> 00:47:08.796 adenomas and cancer.

NOTE Confidence: 0.76990028

00:47:08.800 --> 00:47:10.834 You know, as opposed to the

NOTE Confidence: 0.76990028

00:47:10.834 --> 00:47:12.800 very very high numbers for FAP,

NOTE Confidence: 0.76990028

00:47:12.800 --> 00:47:14.656 and that's made two more the same thing.

NOTE Confidence: 0.76990028

00:47:14.660 --> 00:47:15.358 So much,

NOTE Confidence: 0.76990028

00:47:15.358 --> 00:47:17.452 much lower incidence of both upper

NOTE Confidence: 0.76990028

00:47:17.452 --> 00:47:20.100 GI tract cancers and desmoid tumor's.

NOTE Confidence: 0.76990028

00:47:20.100 --> 00:47:22.420 Big difference from that standpoint,

NOTE Confidence: 0.76990028

00:47:22.420 --> 00:47:24.895 but risks certainly very hyper

NOTE Confidence: 0.76990028

00:47:24.895 --> 00:47:27.370 correctly cancers we saw before

NOTE Confidence: 0.76990028

00:47:27.452 --> 00:47:30.260 for both FP and and MAP and the

NOTE Confidence: 0.76990028

00:47:30.260 --> 00:47:32.340 three minute surveillance is really

NOTE Confidence: 0.76990028

00:47:32.340 --> 00:47:35.357 very very much the same as what

NOTE Confidence: 0.76990028

00:47:35.360 --> 00:47:37.706 we do with that invated faps,

NOTE Confidence: 0.76990028

00:47:37.710 --> 00:47:39.060 which again if we can keep.

NOTE Confidence: 0.76990028

00:47:39.060 --> 00:47:40.208 Up with Poly prayer,

NOTE Confidence: 0.76990028

00:47:40.208 --> 00:47:41.930 the pilot burden through at the

NOTE Confidence: 0.76990028

00:47:41.991 --> 00:47:44.100 scopic removal. That's what we'll do.

NOTE Confidence: 0.76990028

00:47:44.100 --> 00:47:46.020 And if at some point that's

NOTE Confidence: 0.76990028

00:47:46.088 --> 00:47:47.459 not feasible anymore,

NOTE Confidence: 0.76990028

00:47:47.460 --> 00:47:50.140 that's when will suggest surgery,

NOTE Confidence: 0.76990028

00:47:50.140 --> 00:47:52.340 so not much different from

NOTE Confidence: 0.76990028

00:47:52.340 --> 00:47:54.276 the attenuated forms finally,

NOTE Confidence: 0.76990028

00:47:54.276 --> 00:47:56.740 so ready polyposis syndrome.

NOTE Confidence: 0.76990028

00:47:56.740 --> 00:47:58.720 This is a thread piloting the

NOTE Confidence: 0.76990028

00:47:58.720 --> 00:48:00.610 right side of the column.

NOTE Confidence: 0.76990028

00:48:00.610 --> 00:48:03.160 This is the syndrome that

NOTE Confidence: 0.76990028

00:48:03.160 --> 00:48:05.200 we've defined for years,

NOTE Confidence: 0.76990028

00:48:05.200 --> 00:48:06.908 and yet at this point we really

NOTE Confidence: 0.76990028

00:48:06.908 --> 00:48:08.454 don't have a genetic defect

NOTE Confidence: 0.76990028

00:48:08.454 --> 00:48:09.970 that's associated with it.

NOTE Confidence: 0.76990028

00:48:09.970 --> 00:48:13.450 There's some some jeans have been

NOTE Confidence: 0.76990028

00:48:13.450 --> 00:48:16.170 a loosely associated with it,

NOTE Confidence: 0.76990028

00:48:16.170 --> 00:48:18.786 but really no strong data on that either,

NOTE Confidence: 0.76990028

00:48:18.790 --> 00:48:20.775 which makes things very challenging

NOTE Confidence: 0.76990028

00:48:20.775 --> 00:48:23.596 when it comes to really having a

NOTE Confidence: 0.76990028

00:48:23.596 --> 00:48:26.522 unified approach to a disease when we

NOTE Confidence: 0.76990028

00:48:26.522 --> 00:48:28.970 really don't have a clear theology.

NOTE Confidence: 0.76990028

00:48:28.970 --> 00:48:31.470 The inheritance pattern is unclear,

NOTE Confidence: 0.76990028

00:48:31.470 --> 00:48:34.422 some data has pointed at us

NOTE Confidence: 0.76990028

00:48:34.422 --> 00:48:36.586 all dominant type of pattern,

NOTE Confidence: 0.76990028

00:48:36.586 --> 00:48:39.934 but other data has pointed towards

NOTE Confidence: 0.76990028

00:48:39.934 --> 00:48:41.857 and formal recessive.

NOTE Confidence: 0.76990028

00:48:41.860 --> 00:48:44.878 Patterns who are really still unclear

NOTE Confidence: 0.76990028

00:48:44.880 --> 00:48:47.953 and the numbers in in these cases

NOTE Confidence: 0.76990028

00:48:47.953 --> 00:48:50.872 do coexist with shredded polyps too,

NOTE Confidence: 0.76990028

00:48:50.872 --> 00:48:53.644 so it's not all about rated polyps,

NOTE Confidence: 0.76990028

00:48:53.650 --> 00:48:55.258 and most of them will find

NOTE Confidence: 0.76990028

00:48:55.258 --> 00:48:56.830 a mix pattern of polyps.

NOTE Confidence: 0.76990028

00:48:56.830 --> 00:48:59.120 The miniature of colorectal cancer

NOTE Confidence: 0.76990028

00:48:59.120 --> 00:49:01.410 diagnosis is 55 and relative

NOTE Confidence: 0.76990028

00:49:01.482 --> 00:49:03.535 risk of cancer 5.4 on average,

NOTE Confidence: 0.76990028

00:49:03.535 --> 00:49:05.605 and maybe there seems to be

NOTE Confidence: 0.76990028

00:49:05.605 --> 00:49:07.540 some different phenotypes,

NOTE Confidence: 0.76990028

00:49:07.540 --> 00:49:09.700 some of them being more severe

NOTE Confidence: 0.76990028

00:49:09.700 --> 00:49:11.140 with large right side.

NOTE Confidence: 0.76990028

00:49:11.140 --> 00:49:12.796 This isolated at the nomads and.

NOTE Confidence: 0.76990028

00:49:12.800 --> 00:49:15.760 Young age of onset, but again every time,

NOTE Confidence: 0.76990028

00:49:15.760 --> 00:49:17.506 but we don't have a specific

NOTE Confidence: 0.76990028

00:49:17.506 --> 00:49:19.689 gene that's behind the disease.

NOTE Confidence: 0.76990028

00:49:19.689 --> 00:49:21.288 Often it's less.

NOTE Confidence: 0.76990028

00:49:21.290 --> 00:49:22.784 It's a little bit more challenging

NOTE Confidence: 0.76990028

00:49:22.784 --> 00:49:24.356 to really have a unified idea

NOTE Confidence: 0.76990028

00:49:24.356 --> 00:49:25.400 of what's going on,

NOTE Confidence: 0.76990028

00:49:25.400 --> 00:49:27.956 and we've got by this clinical

NOTE Confidence: 0.76990028

00:49:27.956 --> 00:49:30.205 criteria that were originally set

NOTE Confidence: 0.76990028

00:49:30.205 --> 00:49:32.550 up by the World Gastroenterology

NOTE Confidence: 0.76990028

00:49:32.550 --> 00:49:35.154 organization that will revise in 2019,

NOTE Confidence: 0.76990028

00:49:35.154 --> 00:49:38.238 or basically as looking at number

NOTE Confidence: 0.76990028

00:49:38.238 --> 00:49:41.119 of serrated lesions in the colon

NOTE Confidence: 0.76990028

00:49:41.119 --> 00:49:43.615 and the size of these lesions.

NOTE Confidence: 0.76014794

00:49:43.620 --> 00:49:45.834 That we really kind of helped

NOTE Confidence: 0.76014794

00:49:45.834 --> 00:49:47.745 us classifying patients do have

NOTE Confidence: 0.76014794

00:49:47.745 --> 00:49:49.560 several Poly process or not.

NOTE Confidence: 0.76014794

00:49:49.560 --> 00:49:51.890 There's nothing magic about these

NOTE Confidence: 0.76014794

00:49:51.890 --> 00:49:54.220 criteria and actually the criteria

NOTE Confidence: 0.76014794

00:49:54.291 --> 00:49:56.685 got a little bit loose and because

NOTE Confidence: 0.76014794

00:49:56.685 --> 00:49:58.932 we're missing a lot of cases that

NOTE Confidence: 0.76014794

00:49:58.932 --> 00:50:01.304 were not fulfilling in 2010 criteria

NOTE Confidence: 0.76014794

00:50:01.304 --> 00:50:04.016 and yet they were developing cancer

NOTE Confidence: 0.76014794

00:50:04.016 --> 00:50:06.956 at similar rate as as the other ones.

NOTE Confidence: 0.76014794

00:50:06.960 --> 00:50:09.036 Therefore, that's how that got changed.

NOTE Confidence: 0.76014794

00:50:09.040 --> 00:50:11.678 And the biggest change is really counting

NOTE Confidence: 0.76014794

00:50:11.678 --> 00:50:14.350 serrated and hyperplastic lesions.

NOTE Confidence: 0.76014794

00:50:14.350 --> 00:50:16.117 A proximal to the ****** instead

NOTE Confidence: 0.76014794

00:50:16.117 --> 00:50:18.619 of proximal to the sigmoid colon

NOTE Confidence: 0.76014794

00:50:18.619 --> 00:50:20.656 when it comes to counting.

NOTE Confidence: 0.76014794

00:50:20.656 --> 00:50:23.386 Accounting for these lesions for

NOTE Confidence: 0.76014794

00:50:23.386 --> 00:50:26.586 this rare public process and so on.

NOTE Confidence: 0.76014794

00:50:26.586 --> 00:50:28.987 What we do in terms of surveillance.

NOTE Confidence: 0.76014794

00:50:28.990 --> 00:50:30.762 Colonoscopy with polypectomy until

NOTE Confidence: 0.76014794

00:50:30.762 --> 00:50:33.866 all polyps that are larger than 5

NOTE Confidence: 0.76014794

00:50:33.866 --> 00:50:35.716 millimeters are removed and then

NOTE Confidence: 0.76014794

00:50:35.716 --> 00:50:38.177 with that more clear colon we

NOTE Confidence: 0.76014794

00:50:38.177 --> 00:50:39.548 would repeat colonoscopy.

NOTE Confidence: 0.76014794

00:50:39.550 --> 00:50:41.783 Went to three years depending on number

NOTE Confidence: 0.76014794

00:50:41.783 --> 00:50:43.930 and size of polyps, and certainly.

NOTE Confidence: 0.76014794

00:50:43.930 --> 00:50:46.310 If there's no good way to keep

NOTE Confidence: 0.76014794

00:50:46.310 --> 00:50:48.640 up with this polyps and again,

NOTE Confidence: 0.76014794

00:50:48.640 --> 00:50:50.397 it's tricky because some of these are

NOTE Confidence: 0.76014794

00:50:50.397 --> 00:50:52.289 very flat and hard to see sometimes.

NOTE Confidence: 0.76014794

00:50:52.290 --> 00:50:54.778 Then, consider surgical referral,

NOTE Confidence: 0.76014794

00:50:54.778 --> 00:50:58.510 particularly if we find that evidence

NOTE Confidence: 0.76014794

00:50:58.598 --> 00:51:01.838 of hybrid displeasure in those cases,

NOTE Confidence: 0.76014794

00:51:01.840 --> 00:51:07.588 so the this is a list of a Poly process

NOTE Confidence: 0.76014794

00:51:07.588 --> 00:51:10.004 syndromes that, as you can see,

NOTE Confidence: 0.76014794

00:51:10.004 --> 00:51:12.219 the number of genes that are associated

NOTE Confidence: 0.76014794

00:51:12.219 --> 00:51:15.549 with them has grown over the last few years.

NOTE Confidence: 0.76014794

00:51:15.550 --> 00:51:18.252 Even though many of them are really

NOTE Confidence: 0.76014794

00:51:18.252 --> 00:51:19.410 not that frequent,

NOTE Confidence: 0.76014794

00:51:19.410 --> 00:51:22.704 we've mentioned about APC causing faps

NOTE Confidence: 0.76014794

00:51:22.704 --> 00:51:26.408 and the attenuated form myh causing map.

NOTE Confidence: 0.76014794

00:51:26.410 --> 00:51:29.302 Then this might less common these

NOTE Confidence: 0.76014794

00:51:29.302 --> 00:51:30.748 people polymerase proofreading

NOTE Confidence: 0.76014794

00:51:30.748 --> 00:51:32.673 associated Poly process due to

NOTE Confidence: 0.76014794

00:51:32.673 --> 00:51:34.318 this genetic germline defects,

NOTE Confidence: 0.76014794

00:51:34.318 --> 00:51:37.671 gram one for hereditary mix Poly poses

NOTE Confidence: 0.76014794

00:51:37.671 --> 00:51:40.562 or these other anti NTHL one and then

NOTE Confidence: 0.76014794

00:51:40.562 --> 00:51:41.852 the hammer tomatoes fully process

NOTE Confidence: 0.76014794

00:51:41.852 --> 00:51:43.594 that we've known for years because

NOTE Confidence: 0.76014794

00:51:43.594 --> 00:51:45.024 of their very unique phenotypes.

NOTE Confidence: 0.76014794

00:51:45.030 --> 00:51:45.842 Boots jiggers.

NOTE Confidence: 0.76014794

00:51:45.842 --> 00:51:47.872 Juvenile Poly policy is piton

NOTE Confidence: 0.76014794

00:51:47.872 --> 00:51:49.750 hammer toma tumor syndrome,

NOTE Confidence: 0.76014794

00:51:49.750 --> 00:51:50.989 Cowden for instance.

NOTE Confidence: 0.76014794

00:51:50.989 --> 00:51:53.880 Those I'm not gonna get into right

NOTE Confidence: 0.76014794

00:51:53.962 --> 00:51:56.433 now to basically I think just to

NOTE Confidence: 0.76014794

00:51:56.433 --> 00:51:58.752 leave you with this that when it

NOTE Confidence: 0.76014794

00:51:58.752 --> 00:51:59.756 comes to Poly process,

NOTE Confidence: 0.76014794

00:51:59.760 --> 00:52:02.864 things are not more often not clear cut.

NOTE Confidence: 0.76014794

00:52:02.870 --> 00:52:05.607 We may have FAP patients who would

NOTE Confidence: 0.76014794

00:52:05.607 --> 00:52:08.456 have not only I'm at this point

NOTE Confidence: 0.76014794

00:52:08.456 --> 00:52:10.446 but also so Reddit polyps,

NOTE Confidence: 0.76014794

00:52:10.450 --> 00:52:12.904 serrated polyp poses usually does include

NOTE Confidence: 0.76014794

00:52:12.904 --> 00:52:16.069 a lot of patients or patients who have.

NOTE Confidence: 0.76014794

00:52:16.070 --> 00:52:17.250 Not only is really pose,

NOTE Confidence: 0.76014794

00:52:17.250 --> 00:52:18.990 but also the number this polyps.

NOTE Confidence: 0.76014794

00:52:18.990 --> 00:52:22.246 So at mix type of polyps is very

NOTE Confidence: 0.76014794

00:52:22.246 --> 00:52:24.998 commonly seen in many of those

NOTE Confidence: 0.76014794

00:52:24.998 --> 00:52:27.308 syndromes and I'm so grateful.

NOTE Confidence: 0.76014794

00:52:27.310 --> 00:52:28.620 And that's,

NOTE Confidence: 0.76014794

00:52:28.620 --> 00:52:29.275 uh,

NOTE Confidence: 0.76014794

00:52:29.275 --> 00:52:33.860 that's important to remember and and will.

NOTE Confidence: 0.76014794

00:52:33.860 --> 00:52:35.840 I will leave it here and then at the

NOTE Confidence: 0.76014794

00:52:35.840 --> 00:52:38.099 end will be happy to take any questions.

NOTE Confidence: 0.76014794

00:52:38.100 --> 00:52:39.010 Thank you very much.

NOTE Confidence: 0.80562399

00:52:42.230 --> 00:52:44.869 Alright, thank you so much Doctor Lohr.

NOTE Confidence: 0.80562399

00:52:44.870 --> 00:52:47.085 Next I'd like to introduce

NOTE Confidence: 0.80562399

00:52:47.085 --> 00:52:48.414 Doctor James Farrell.

NOTE Confidence: 0.80562399

00:52:48.420 --> 00:52:50.718 Dr Ferrell is an expert in

NOTE Confidence: 0.80562399

00:52:50.718 --> 00:52:51.867 pancreatic disease treatment,

NOTE Confidence: 0.80562399

00:52:51.870 --> 00:52:53.778 and research is board

NOTE Confidence: 0.80562399

00:52:53.778 --> 00:52:55.686 certified in internal medicine,

NOTE Confidence: 0.80562399

00:52:55.690 --> 00:52:57.310 gastroenterology in clinical pharmacology.

NOTE Confidence: 0.80562399

00:52:57.310 --> 00:52:59.740 He leads the Yale Center for

NOTE Confidence: 0.80562399

00:52:59.806 --> 00:53:01.202 Pancreatic Disease at Yale

NOTE Confidence: 0.80562399

00:53:01.202 --> 00:53:02.947 School of Medicine and Yale,

NOTE Confidence: 0.80562399

00:53:02.950 --> 00:53:04.120 New Haven Hospital,

NOTE Confidence: 0.80562399

00:53:04.120 --> 00:53:06.070 as well as the Yale

NOTE Confidence: 0.80562399

00:53:06.070 --> 00:53:07.400 Interventional endoscopy program.

NOTE Confidence: 0.80562399

00:53:07.400 --> 00:53:09.199 Thank you for joining us Doctor Farrell.

NOTE Confidence: 0.71146149

00:53:20.780 --> 00:53:22.170 Doctor Farrell are you there?

NOTE Confidence: 0.958416425

00:53:30.120 --> 00:53:33.720 Can you hear me? Yes, perfect,

NOTE Confidence: 0.958416425

00:53:33.720 --> 00:53:36.650 thank you. Let me get my slides up.

NOTE Confidence: 0.33324143

00:53:39.750 --> 00:53:40.380 Uhm?

NOTE Confidence: 0.6488389

00:53:52.160 --> 00:53:52.590 Quick.

NOTE Confidence: 0.6786091

00:53:55.220 --> 00:53:55.560 Away.

NOTE Confidence: 0.847528166666667

00:54:00.280 --> 00:54:01.465 Again, good evening everybody.

NOTE Confidence: 0.847528166666667

00:54:01.465 --> 00:54:03.390 Thanks for the invitation to

NOTE Confidence: 0.847528166666667

00:54:03.390 --> 00:54:04.930 participate again this year.

NOTE Confidence: 0.847528166666667

00:54:04.930 --> 00:54:08.090 Uh, in this mini symposium.

NOTE Confidence: 0.847528166666667

00:54:08.090 --> 00:54:11.018 I had actually, uh.

NOTE Confidence: 0.847528166666667

00:54:11.020 --> 00:54:13.027 We only plan to talk for about 10 or

NOTE Confidence: 0.847528166666667

00:54:13.027 --> 00:54:15.316 15 minutes because it's late and I'm

NOTE Confidence: 0.847528166666667

00:54:15.316 --> 00:54:17.014 sure there's other speakers as well,

NOTE Confidence: 0.847528166666667

00:54:17.020 --> 00:54:20.170 so I'm probably going to keep my

NOTE Confidence: 0.847528166666667

00:54:20.170 --> 00:54:22.564 comments fairly brief and just cover

NOTE Confidence: 0.847528166666667

00:54:22.564 --> 00:54:25.144 some of the issues related to screening

NOTE Confidence: 0.847528166666667

00:54:25.144 --> 00:54:28.048 and prevention for high risk pancreas

NOTE Confidence: 0.847528166666667

00:54:28.048 --> 00:54:29.922 cancer relatively ultimately focusing

NOTE Confidence: 0.847528166666667

00:54:29.922 --> 00:54:32.428 on the high risk genetics cases and.

NOTE Confidence: 0.847528166666667

00:54:32.430 --> 00:54:34.698 Because it's it's not as a mature a topic

NOTE Confidence: 0.847528166666667

00:54:34.698 --> 00:54:37.130 as perhaps in the realm of colon cancer,

NOTE Confidence: 0.847528166666667

00:54:37.130 --> 00:54:38.842 which you heard about,

NOTE Confidence: 0.847528166666667

00:54:38.842 --> 00:54:40.554 or pressure ovarian cancer.

NOTE Confidence: 0.847528166666667

00:54:40.560 --> 00:54:42.270 You'll see a lot of it is still under

NOTE Confidence: 0.847528166666667

00:54:42.270 --> 00:54:43.738 kind of the context of research,

NOTE Confidence: 0.847528166666667

00:54:43.740 --> 00:54:45.315 and I've added my contact

NOTE Confidence: 0.847528166666667

00:54:45.315 --> 00:54:46.890 information in the last slide.

NOTE Confidence: 0.847528166666667

00:54:46.890 --> 00:54:48.948 If anybody wants to reach out to

NOTE Confidence: 0.847528166666667

00:54:48.948 --> 00:54:51.299 me with any additional questions.

NOTE Confidence: 0.847528166666667

00:54:51.300 --> 00:54:53.646 So let me just put this.

NOTE Confidence: 0.9128058

00:54:56.520 --> 00:54:56.930 Sorry.

NOTE Confidence: 0.83835633

00:54:58.990 --> 00:55:01.480 We get rid of this.

NOTE Confidence: 0.83835633

00:55:01.480 --> 00:55:03.448 There's an annoying bar on my.

NOTE Confidence: 0.766363395

00:55:07.100 --> 00:55:08.906 I don't know where that is

NOTE Confidence: 0.766363395

00:55:08.906 --> 00:55:10.960 that bar on your screen too.

NOTE Confidence: 0.766363395

00:55:10.960 --> 00:55:14.740 Oh here we go, OK? Put that.

NOTE Confidence: 0.766363395

00:55:14.740 --> 00:55:17.155 Let me put that down there OK?

NOTE Confidence: 0.766363395

00:55:17.160 --> 00:55:19.309 So when we think just to remind

NOTE Confidence: 0.766363395

00:55:19.309 --> 00:55:21.678 people we think of pancreatic cancer,

NOTE Confidence: 0.766363395

00:55:21.680 --> 00:55:23.584 you know, compared to some of the other.

NOTE Confidence: 0.897605106363637

00:55:29.810 --> 00:55:31.832 Here we go. We compared with

NOTE Confidence: 0.897605106363637

00:55:31.832 --> 00:55:33.840 some of the other cancers.

NOTE Confidence: 0.897605106363637

00:55:33.840 --> 00:55:35.142 Now we think of the overall

NOTE Confidence: 0.897605106363637

00:55:35.142 --> 00:55:35.793 incidence of pancreas.

NOTE Confidence: 0.897605106363637

00:55:35.800 --> 00:55:38.584 Cancer is actually, you know it's low on

NOTE Confidence: 0.897605106363637

00:55:38.584 --> 00:55:41.627 the list #9 or 10 for both men and women.

NOTE Confidence: 0.897605106363637

00:55:41.630 --> 00:55:43.653 But the real challenge is of course

NOTE Confidence: 0.897605106363637

00:55:43.653 --> 00:55:45.450 when it comes to cancer related

NOTE Confidence: 0.897605106363637

00:55:45.450 --> 00:55:47.792 deaths and it jumps up into the list

NOTE Confidence: 0.897605106363637

00:55:47.792 --> 00:55:49.840 to number the number 3 or #4 spot.

NOTE Confidence: 0.897605106363637

00:55:49.840 --> 00:55:52.480 And so you know with, uh,

NOTE Confidence: 0.897605106363637

00:55:52.480 --> 00:55:55.248 an average of around 56,000

NOTE Confidence: 0.897605106363637

00:55:55.248 --> 00:55:58.688 cases in the current year.

NOTE Confidence: 0.897605106363637

00:55:58.690 --> 00:56:00.865 It's guesstimated that by 2030

NOTE Confidence: 0.897605106363637

00:56:00.865 --> 00:56:03.344 or so pancreatic cancer will be

NOTE Confidence: 0.897605106363637

00:56:03.344 --> 00:56:05.782 the second most common cause for

NOTE Confidence: 0.897605106363637

00:56:05.782 --> 00:56:07.438 cancer related deaths, you know,

NOTE Confidence: 0.897605106363637

00:56:07.438 --> 00:56:09.500 and a lot of that has to do with.

NOTE Confidence: 0.897605106363637

00:56:09.500 --> 00:56:11.768 More progress that's made in other areas

NOTE Confidence: 0.897605106363637

00:56:11.768 --> 00:56:13.640 of treatment and particularly prevention

NOTE Confidence: 0.897605106363637

00:56:13.640 --> 00:56:16.154 and less so with pancreatic cancer.

NOTE Confidence: 0.897605106363637

00:56:16.160 --> 00:56:17.535 Although there have been some

NOTE Confidence: 0.897605106363637

00:56:17.535 --> 00:56:18.910 advances in both the areas

NOTE Confidence: 0.897605106363637

00:56:18.963 --> 00:56:20.339 of treatment and prevention,

NOTE Confidence: 0.897605106363637

00:56:20.340 --> 00:56:22.060 but just not as dramatic

NOTE Confidence: 0.897605106363637

00:56:22.060 --> 00:56:23.436 as with other malignancy.

NOTE Confidence: 0.897605106363637

00:56:23.440 --> 00:56:24.708 So a huge challenge.

NOTE Confidence: 0.35332853

00:56:26.770 --> 00:56:31.427 Uhm? I think it's also worth stating that.

NOTE Confidence: 0.942917709166667

00:56:33.970 --> 00:56:36.273 It's important to kind of understand the

NOTE Confidence: 0.942917709166667

00:56:36.273 --> 00:56:38.290 different stages for pancreatic cancer,

NOTE Confidence: 0.942917709166667

00:56:38.290 --> 00:56:41.350 because this is one of the issues that we

NOTE Confidence: 0.942917709166667

00:56:41.350 --> 00:56:45.110 have with any sort of surveillance strategy,

NOTE Confidence: 0.942917709166667

00:56:45.110 --> 00:56:46.958 and so for this particular patient,

NOTE Confidence: 0.942917709166667

00:56:46.960 --> 00:56:48.810 this is a CT scan,

NOTE Confidence: 0.942917709166667

00:56:48.810 --> 00:56:51.150 and so for this particular patient,

NOTE Confidence: 0.942917709166667

00:56:51.150 --> 00:56:54.048 this is a small pancreatic cancer

NOTE Confidence: 0.942917709166667

00:56:54.048 --> 00:56:57.220 involving the head of the pancreas.

NOTE Confidence: 0.942917709166667

00:56:57.220 --> 00:56:59.556 Probably the order of 1 1/2 to 2

NOTE Confidence: 0.942917709166667

00:56:59.556 --> 00:57:01.502 centimeters or so in size, and these

NOTE Confidence: 0.942917709166667

00:57:01.502 --> 00:57:03.338 are important blood vessels around it,

NOTE Confidence: 0.942917709166667

00:57:03.340 --> 00:57:05.500 but this mass is actually somewhat

NOTE Confidence: 0.942917709166667

00:57:05.500 --> 00:57:07.490 distinct from these blood vessels,

NOTE Confidence: 0.942917709166667

00:57:07.490 --> 00:57:08.820 and so typically a surgeon

NOTE Confidence: 0.942917709166667

00:57:08.820 --> 00:57:10.470 would be able to remove this.

NOTE Confidence: 0.942917709166667

00:57:10.470 --> 00:57:12.170 So even though the nomenclature

NOTE Confidence: 0.942917709166667

00:57:12.170 --> 00:57:13.530 can be quite confusing,

NOTE Confidence: 0.942917709166667

00:57:13.530 --> 00:57:15.147 this is in a very straightforward way.

NOTE Confidence: 0.942917709166667

00:57:15.150 --> 00:57:17.826 We think about in terms of

NOTE Confidence: 0.942917709166667

00:57:17.826 --> 00:57:19.164 resectable pancreatic cancer,

NOTE Confidence: 0.942917709166667

00:57:19.170 --> 00:57:21.720 you see the liver over here on the left side,

NOTE Confidence: 0.942917709166667

00:57:21.720 --> 00:57:23.894 and the kidneys as well now.

NOTE Confidence: 0.942917709166667

00:57:23.894 --> 00:57:25.952 If you move on from that a

NOTE Confidence: 0.942917709166667

00:57:25.952 --> 00:57:27.310 little bit and again,

NOTE Confidence: 0.942917709166667

00:57:27.310 --> 00:57:29.788 looking at again another CT scan,

NOTE Confidence: 0.942917709166667

00:57:29.790 --> 00:57:32.737 you can see in the arrow here.

NOTE Confidence: 0.942917709166667

00:57:32.740 --> 00:57:33.940 Another large mask,

NOTE Confidence: 0.942917709166667

00:57:33.940 --> 00:57:36.740 but now this mass is beginning to

NOTE Confidence: 0.942917709166667

00:57:36.825 --> 00:57:39.520 involve and in case a blood vessel

NOTE Confidence: 0.942917709166667

00:57:39.520 --> 00:57:42.120 and an important blood vessel here,

NOTE Confidence: 0.942917709166667

00:57:42.120 --> 00:57:44.080 and for this reason, even though you say,

NOTE Confidence: 0.942917709166667

00:57:44.080 --> 00:57:46.796 well, it's still confined to the pancreas,

NOTE Confidence: 0.942917709166667

00:57:46.800 --> 00:57:49.095 or at least the head of the pancreas because

NOTE Confidence: 0.942917709166667

00:57:49.095 --> 00:57:51.259 of its involvement in a blood vessel.

NOTE Confidence: 0.942917709166667

00:57:51.260 --> 00:57:53.353 This makes it more difficult for a

NOTE Confidence: 0.942917709166667

00:57:53.353 --> 00:57:55.079 surgeon to consider removing this.

NOTE Confidence: 0.942917709166667

00:57:55.080 --> 00:57:56.358 Again, there may not be evidence,

NOTE Confidence: 0.942917709166667

00:57:56.360 --> 00:57:57.816 at least to the visible eye of disease

NOTE Confidence: 0.942917709166667

00:57:57.816 --> 00:57:59.513 elsewhere in the liver, and so on.

NOTE Confidence: 0.942917709166667

00:57:59.513 --> 00:58:01.379 But this still would not be

NOTE Confidence: 0.942917709166667

00:58:01.379 --> 00:58:03.150 considered surgically resectable.

NOTE Confidence: 0.942917709166667

00:58:03.150 --> 00:58:04.790 In its current state,

NOTE Confidence: 0.942917709166667

00:58:04.790 --> 00:58:08.759 and so we call this locally advanced disease.

NOTE Confidence: 0.942917709166667

00:58:08.760 --> 00:58:10.650 And then the most dramatic stage,

NOTE Confidence: 0.942917709166667

00:58:10.650 --> 00:58:11.544 of course,

NOTE Confidence: 0.942917709166667

00:58:11.544 --> 00:58:13.779 is individuals who present with

NOTE Confidence: 0.942917709166667

00:58:13.779 --> 00:58:15.962 disease outside of the pancreas

NOTE Confidence: 0.942917709166667

00:58:15.962 --> 00:58:18.067 at the time of presentation.

NOTE Confidence: 0.942917709166667

00:58:18.070 --> 00:58:19.920 Often it's in the liver,

NOTE Confidence: 0.942917709166667

00:58:19.920 --> 00:58:21.840 sometimes it's up in the chest,

NOTE Confidence: 0.942917709166667

00:58:21.840 --> 00:58:23.120 and often sometimes then again,

NOTE Confidence: 0.942917709166667

00:58:23.120 --> 00:58:24.458 it's in what's called the peritoneum.

NOTE Confidence: 0.942917709166667

00:58:24.460 --> 00:58:28.580 So implants here shown on this CT scan,

NOTE Confidence: 0.942917709166667

00:58:28.580 --> 00:58:29.538 so again,

NOTE Confidence: 0.942917709166667

00:58:29.538 --> 00:58:32.412 this would not be considered surgically

NOTE Confidence: 0.942917709166667

00:58:32.412 --> 00:58:33.990 resectable removable disease,

NOTE Confidence: 0.942917709166667

00:58:33.990 --> 00:58:37.032 and would in fact be considered

NOTE Confidence: 0.942917709166667

00:58:37.032 --> 00:58:38.046 metastatic disease.

NOTE Confidence: 0.942917709166667

00:58:38.050 --> 00:58:41.508 To put this into some perspective then.

NOTE Confidence: 0.942917709166667

00:58:41.510 --> 00:58:41.938 Uhm,

NOTE Confidence: 0.942917709166667

00:58:41.938 --> 00:58:44.506 only about 15% of all patients

NOTE Confidence: 0.942917709166667

00:58:44.506 --> 00:58:46.379 present with that surgically

NOTE Confidence: 0.942917709166667

00:58:46.379 --> 00:58:48.884 resectable stage and early stage

NOTE Confidence: 0.942917709166667

00:58:48.884 --> 00:58:52.347 that a surgeon can go in and remove.

NOTE Confidence: 0.942917709166667

00:58:52.350 --> 00:58:54.436 And this is the group of patients

NOTE Confidence: 0.942917709166667

00:58:54.436 --> 00:58:56.013 that really offer the best

NOTE Confidence: 0.942917709166667

00:58:56.013 --> 00:58:57.563 potential for those that present

NOTE Confidence: 0.942917709166667

00:58:57.563 --> 00:58:59.837 with at the stage with the cancer.

NOTE Confidence: 0.942917709166667

00:58:59.840 --> 00:59:01.856 And so the the mean average survival

NOTE Confidence: 0.942917709166667

00:59:01.856 --> 00:59:04.168 is in the region of 2025 months.

NOTE Confidence: 0.942917709166667

00:59:04.168 --> 00:59:06.622 But of course there can be

NOTE Confidence: 0.942917709166667

00:59:06.622 --> 00:59:07.910 extremes with that.

NOTE Confidence: 0.942917709166667

00:59:07.910 --> 00:59:08.980 For the other two groups,

NOTE Confidence: 0.942917709166667

00:59:08.980 --> 00:59:09.449 however,

NOTE Confidence: 0.942917709166667

00:59:09.449 --> 00:59:11.794 it splits somewhat evenly between

NOTE Confidence: 0.942917709166667

00:59:11.794 --> 00:59:14.158 patients presenting with locally advanced

NOTE Confidence: 0.942917709166667

00:59:14.158 --> 00:59:16.678 disease as well as metastatic disease,

NOTE Confidence: 0.942917709166667

00:59:16.680 --> 00:59:18.880 and so it just gets at the important

NOTE Confidence: 0.942917709166667

00:59:18.880 --> 00:59:21.221 issue that although there are newer

NOTE Confidence: 0.942917709166667

00:59:21.221 --> 00:59:23.386 treatments and somewhat better medical

NOTE Confidence: 0.942917709166667

00:59:23.386 --> 00:59:25.805 treatments for this disease than there were,

NOTE Confidence: 0.942917709166667

00:59:25.810 --> 00:59:26.303 say,

NOTE Confidence: 0.942917709166667

00:59:26.303 --> 00:59:28.768 15 or 20 years ago.

NOTE Confidence: 0.942917709166667

00:59:28.770 --> 00:59:30.714 Will focus to make any sort of dent in

NOTE Confidence: 0.942917709166667

00:59:30.714 --> 00:59:32.697 this disease is really early detection.

NOTE Confidence: 0.880974128636363

00:59:35.070 --> 00:59:37.526 And part of that reason where it becomes

NOTE Confidence: 0.880974128636363

00:59:37.526 --> 00:59:39.721 challenging is because of course the

NOTE Confidence: 0.880974128636363

00:59:39.721 --> 00:59:41.241 symptoms associated with pancreatic

NOTE Confidence: 0.880974128636363

00:59:41.241 --> 00:59:43.299 cancer are very nonspecific, so.

NOTE Confidence: 0.880974128636363

00:59:43.299 --> 00:59:45.322 Uhm, you know if you think about

NOTE Confidence: 0.880974128636363

00:59:45.322 --> 00:59:47.595 them and how these patients will

NOTE Confidence: 0.880974128636363

00:59:47.595 --> 00:59:49.630 present at the symptomatic point,

NOTE Confidence: 0.880974128636363

00:59:49.630 --> 00:59:51.550 at least you know abdominal pain.

NOTE Confidence: 0.880974128636363

00:59:51.550 --> 00:59:53.986 Weight loss are can be common symptoms,

NOTE Confidence: 0.880974128636363

00:59:53.990 --> 00:59:55.166 but they're very nonspecific.

NOTE Confidence: 0.880974128636363

00:59:55.166 --> 00:59:56.342 You get abdominal pains

NOTE Confidence: 0.880974128636363

00:59:56.342 --> 00:59:57.780 when also from a gallstone.

NOTE Confidence: 0.880974128636363

00:59:57.780 --> 00:59:59.410 It doesn't necessarily have to

NOTE Confidence: 0.880974128636363

00:59:59.410 --> 01:00:00.714 be a pancreatic malignancy,

NOTE Confidence: 0.880974128636363

01:00:00.720 --> 01:00:03.030 and the same thing for weight loss.

NOTE Confidence: 0.880974128636363

01:00:03.030 --> 01:00:04.050 When you look at other symptoms,

NOTE Confidence: 0.880974128636363

01:00:04.050 --> 01:00:05.990 like jaundice and dark urine,

NOTE Confidence: 0.880974128636363

01:00:05.990 --> 01:00:07.510 know you could certainly kind of begin to

NOTE Confidence: 0.880974128636363

01:00:07.510 --> 01:00:09.230 focus in on things related to the pancreas,

NOTE Confidence: 0.880974128636363

01:00:09.230 --> 01:00:11.588 but still very nonspecific, and again,

NOTE Confidence: 0.880974128636363

01:00:11.590 --> 01:00:13.270 there's other symptoms like nausea,

NOTE Confidence: 0.880974128636363

01:00:13.270 --> 01:00:14.510 vomiting, depression,

NOTE Confidence: 0.880974128636363

01:00:14.510 --> 01:00:16.370 anorexia, but again,

NOTE Confidence: 0.880974128636363

01:00:16.370 --> 01:00:18.450 have a multitude of causes,

NOTE Confidence: 0.880974128636363

01:00:18.450 --> 01:00:20.295 and pancreatic cancer is certainly

NOTE Confidence: 0.880974128636363

01:00:20.295 --> 01:00:22.550 not high up on that list.

NOTE Confidence: 0.880974128636363

01:00:22.550 --> 01:00:24.356 Two ones that are also worth

NOTE Confidence: 0.880974128636363

01:00:24.356 --> 01:00:25.560 thinking about are acute

NOTE Confidence: 0.880974128636363

01:00:25.622 --> 01:00:27.667 pancreatitis and new onset diabetes.

NOTE Confidence: 0.880974128636363

01:00:27.670 --> 01:00:29.578 And we'll come back and talk a little bit

NOTE Confidence: 0.880974128636363

01:00:29.578 --> 01:00:31.600 more about the new onset diabetes later on.

NOTE Confidence: 0.880974128636363

01:00:31.600 --> 01:00:34.114 In terms of ways that patients

NOTE Confidence: 0.880974128636363

01:00:34.114 --> 01:00:36.287 with pancreatic cancer may present

NOTE Confidence: 0.880974128636363

01:00:36.287 --> 01:00:38.807 that we should be familiar with.

NOTE Confidence: 0.880974128636363

01:00:38.810 --> 01:00:40.861 So therefore when we think about the

NOTE Confidence: 0.880974128636363

01:00:40.861 --> 01:00:42.689 goals of pancreatic cancer screening,

NOTE Confidence: 0.880974128636363

01:00:42.690 --> 01:00:45.651 it has been stated in guidelines that

NOTE Confidence: 0.880974128636363

01:00:45.651 --> 01:00:47.876 a successful screening program should

NOTE Confidence: 0.880974128636363

01:00:47.876 --> 01:00:50.170 detect and treat what's considered

NOTE Confidence: 0.880974128636363

01:00:50.170 --> 01:00:53.110 early stage or resectable margin negative.

NOTE Confidence: 0.880974128636363

01:00:53.110 --> 01:00:55.640 So there's no tumor left

NOTE Confidence: 0.880974128636363

01:00:55.640 --> 01:00:57.158 behind pancreatic cancer.

NOTE Confidence: 0.880974128636363

01:00:57.160 --> 01:01:00.643 As well as a lesions that are not cancerous,

NOTE Confidence: 0.880974128636363

01:01:00.650 --> 01:01:02.486 so called precancerous lesions,

NOTE Confidence: 0.880974128636363

01:01:02.486 --> 01:01:06.351 and these include a variety of very well

NOTE Confidence: 0.880974128636363

01:01:06.351 --> 01:01:08.391 established pathologic and entities

NOTE Confidence: 0.880974128636363

01:01:08.391 --> 01:01:11.940 called Pan Inns or IPM nsor MCMS.

NOTE Confidence: 0.880974128636363

01:01:11.940 --> 01:01:13.490 These are types of sometimes

NOTE Confidence: 0.880974128636363

01:01:13.490 --> 01:01:15.670 types of cysts in the pancreas.

NOTE Confidence: 0.880974128636363

01:01:15.670 --> 01:01:17.880 And some of them do have imaging

NOTE Confidence: 0.880974128636363

01:01:17.880 --> 01:01:20.490 carlitz that can be seen on a CT scan,

NOTE Confidence: 0.880974128636363

01:01:20.490 --> 01:01:22.191 but unfortunately some of them don't and

NOTE Confidence: 0.880974128636363

01:01:22.191 --> 01:01:24.329 it can be quite difficult to identify,

NOTE Confidence: 0.880974128636363

01:01:24.330 --> 01:01:28.164 but ideally picking up high grade

NOTE Confidence: 0.880974128636363

01:01:28.164 --> 01:01:30.081 dysplastic precancerous lesions

NOTE Confidence: 0.880974128636363

01:01:30.081 --> 01:01:33.690 would really be a huge step forward

NOTE Confidence: 0.880974128636363

01:01:33.690 --> 01:01:35.130 in the management.

NOTE Confidence: 0.880974128636363

01:01:35.130 --> 01:01:39.078 Prognosis for this group of patients.

NOTE Confidence: 0.880974128636363

01:01:39.080 --> 01:01:40.495 So without getting into it

NOTE Confidence: 0.880974128636363

01:01:40.495 --> 01:01:41.627 in too much detail,

NOTE Confidence: 0.880974128636363

01:01:41.630 --> 01:01:43.620 I'll just state very briefly

NOTE Confidence: 0.880974128636363

01:01:43.620 --> 01:01:46.171 that we do not perform general

NOTE Confidence: 0.880974128636363

01:01:46.171 --> 01:01:48.976 screening in the general population.

NOTE Confidence: 0.880974128636363

01:01:48.980 --> 01:01:51.276 There's a variety of reasons for that.

NOTE Confidence: 0.880974128636363

01:01:51.280 --> 01:01:53.020 There is no simple single

NOTE Confidence: 0.880974128636363

01:01:53.020 --> 01:01:54.880 blood test that you know.

NOTE Confidence: 0.880974128636363

01:01:54.880 --> 01:01:56.532 If you have no risk factors related

NOTE Confidence: 0.880974128636363

01:01:56.532 --> 01:01:58.035 to pancreatic disease, you can get.

NOTE Confidence: 0.880974128636363

01:01:58.035 --> 01:01:59.625 It's not to say people aren't

NOTE Confidence: 0.880974128636363

01:01:59.625 --> 01:02:00.899 working in that direction,

NOTE Confidence: 0.880974128636363

01:02:00.900 --> 01:02:02.472 but it's a very challenging area

NOTE Confidence: 0.880974128636363

01:02:02.472 --> 01:02:04.981 and so right now we don't offer

NOTE Confidence: 0.880974128636363

01:02:04.981 --> 01:02:07.416 or talk about necessarily general

NOTE Confidence: 0.880974128636363

01:02:07.416 --> 01:02:10.278 screening for the general population,

NOTE Confidence: 0.880974128636363

01:02:10.280 --> 01:02:12.904 but we do focus on is trying to

NOTE Confidence: 0.880974128636363

01:02:12.904 --> 01:02:15.655 study an enriching groups and the

NOTE Confidence: 0.880974128636363

01:02:15.655 --> 01:02:17.959 three major groups that we study

NOTE Confidence: 0.880974128636363

01:02:17.959 --> 01:02:19.800 and that we think about when we

NOTE Confidence: 0.880974128636363

01:02:19.867 --> 01:02:21.743 think about pancreatic cancer

NOTE Confidence: 0.880974128636363

01:02:21.743 --> 01:02:23.619 surveillance are pancreatic cysts,

NOTE Confidence: 0.880974128636363

01:02:23.620 --> 01:02:24.200 diabetes,

NOTE Confidence: 0.880974128636363

01:02:24.200 --> 01:02:27.100 and then familial pancreatic cancer.

NOTE Confidence: 0.880974128636363

01:02:27.100 --> 01:02:27.490 Very briefly,

NOTE Confidence: 0.880974128636363

01:02:27.490 --> 01:02:28.855 I'm not going to spend much time.

NOTE Confidence: 0.880974128636363

01:02:28.860 --> 01:02:30.340 Talking about pancreatic cysts,

NOTE Confidence: 0.880974128636363

01:02:30.340 --> 01:02:32.560 but pancreatic cysts are exceedingly common,

NOTE Confidence: 0.880974128636363

01:02:32.560 --> 01:02:35.290 so anywhere between you know 10 to

NOTE Confidence: 0.880974128636363

01:02:35.290 --> 01:02:37.633 40% of CT scans and MRI's that are

NOTE Confidence: 0.880974128636363

01:02:37.633 --> 01:02:39.533 done for patients coming into hospital

NOTE Confidence: 0.880974128636363

01:02:39.533 --> 01:02:41.857 and hospital will have a small cyst.

NOTE Confidence: 0.876685077

01:02:41.860 --> 01:02:43.590 The vast majority of assists

NOTE Confidence: 0.876685077

01:02:43.590 --> 01:02:45.320 will not develop into cancer,

NOTE Confidence: 0.876685077

01:02:45.320 --> 01:02:47.273 but most of those cysts can actually

NOTE Confidence: 0.876685077

01:02:47.273 --> 01:02:49.580 be can be considered precancerous

NOTE Confidence: 0.876685077

01:02:49.580 --> 01:02:51.855 when you think at a national level.

NOTE Confidence: 0.876685077

01:02:51.860 --> 01:02:53.544 It's guesstimated that probably

NOTE Confidence: 0.876685077

01:02:53.544 --> 01:02:55.578 around 6 million. Individuals in EU.

NOTE Confidence: 0.876685077

01:02:55.578 --> 01:02:57.370 S have some form of pancreatic says,

NOTE Confidence: 0.876685077

01:02:57.370 --> 01:03:00.366 so it's not a small, trivial issue.

NOTE Confidence: 0.876685077

01:03:00.366 --> 01:03:01.906 The risk may be low,

NOTE Confidence: 0.876685077

01:03:01.910 --> 01:03:03.457 but kind of on a global scale.

NOTE Confidence: 0.876685077

01:03:03.460 --> 01:03:05.924 It adds up, and so it's something that

NOTE Confidence: 0.876685077

01:03:05.930 --> 01:03:08.919 we certainly take note of and have

NOTE Confidence: 0.876685077

01:03:08.919 --> 01:03:12.108 guidelines in place to try and manage this.

NOTE Confidence: 0.876685077

01:03:12.110 --> 01:03:13.710 Not necessarily the new kid on the block,

NOTE Confidence: 0.876685077

01:03:13.710 --> 01:03:15.222 but something that's you're going to

NOTE Confidence: 0.876685077

01:03:15.222 --> 01:03:17.537 hear more and more about is the interplay

NOTE Confidence: 0.876685077

01:03:17.537 --> 01:03:19.112 between diabetes and pancreatic cancer.

NOTE Confidence: 0.876685077

01:03:19.120 --> 01:03:20.236 So for sure,

NOTE Confidence: 0.876685077

01:03:20.236 --> 01:03:21.724 for individuals with diabetes,

NOTE Confidence: 0.876685077

01:03:21.730 --> 01:03:23.470 it's well known that they are

NOTE Confidence: 0.876685077

01:03:23.470 --> 01:03:25.495 at a slightly increased risk of

NOTE Confidence: 0.876685077

01:03:25.495 --> 01:03:26.710 developing pancreatic cancer.

NOTE Confidence: 0.876685077

01:03:26.710 --> 01:03:29.446 But probably the much more interesting

NOTE Confidence: 0.876685077

01:03:29.446 --> 01:03:32.414 direction is the idea of pancreatic

NOTE Confidence: 0.876685077

01:03:32.414 --> 01:03:35.606 cancer leading and presenting as diabetes,

NOTE Confidence: 0.876685077

01:03:35.610 --> 01:03:38.112 and this is more than just an issue of

NOTE Confidence: 0.876685077

01:03:38.112 --> 01:03:41.037 the tumor taking over the pancreatic gland.

NOTE Confidence: 0.876685077

01:03:41.040 --> 01:03:43.273 There's some other factors going on here

NOTE Confidence: 0.876685077

01:03:43.273 --> 01:03:45.938 that people are beginning to scratch away at.

NOTE Confidence: 0.876685077

01:03:45.940 --> 01:03:48.244 And the result may provide actually

NOTE Confidence: 0.876685077

01:03:48.244 --> 01:03:51.730 an opportunity for for screening.

NOTE Confidence: 0.876685077

01:03:51.730 --> 01:03:53.698 In one perspective case control study

NOTE Confidence: 0.876685077

01:03:53.698 --> 01:03:56.712 that was done of a large number of

NOTE Confidence: 0.876685077

01:03:56.712 --> 01:03:58.344 newly diagnosed pancreatic duct

NOTE Confidence: 0.876685077

01:03:58.344 --> 01:04:00.533 adenocarcinoma is the vast majority of

NOTE Confidence: 0.876685077

01:04:00.533 --> 01:04:03.084 patients had some form of fasting blood,

NOTE Confidence: 0.876685077

01:04:03.084 --> 01:04:05.380 blue blood, glucose abnormality,

NOTE Confidence: 0.876685077

01:04:05.380 --> 01:04:08.126 some of them actually had, you know,

NOTE Confidence: 0.876685077

01:04:08.126 --> 01:04:08.832 documented diabetes,

NOTE Confidence: 0.876685077

01:04:08.832 --> 01:04:11.359 and about half of them had what's

NOTE Confidence: 0.876685077

01:04:11.359 --> 01:04:13.435 called new onset diabetes within a

NOTE Confidence: 0.876685077

01:04:13.435 --> 01:04:16.028 period of time before the presentation,

NOTE Confidence: 0.876685077

01:04:16.030 --> 01:04:17.790 so this cannot be ignored.

NOTE Confidence: 0.876685077

01:04:17.790 --> 01:04:19.680 There's something going on with

NOTE Confidence: 0.876685077

01:04:19.680 --> 01:04:21.192 diabetes and pancreatic cancer.

NOTE Confidence: 0.876685077

01:04:21.200 --> 01:04:23.788 Uhm, that's worth studying.

NOTE Confidence: 0.876685077

01:04:23.790 --> 01:04:26.634 When we look at individuals who

NOTE Confidence: 0.876685077

01:04:26.634 --> 01:04:28.530 subsequently have an association

NOTE Confidence: 0.876685077

01:04:28.610 --> 01:04:31.018 between pancreatic duct adenocarcinoma

NOTE Confidence: 0.876685077

01:04:31.018 --> 01:04:33.426 and elevated blood sugars,

NOTE Confidence: 0.876685077

01:04:33.430 --> 01:04:35.398 certain studies have been able to

NOTE Confidence: 0.876685077

01:04:35.398 --> 01:04:38.040 go back and track the kind of slow

NOTE Confidence: 0.876685077

01:04:38.040 --> 01:04:40.420 eyes of blood sugars anywhere up to

NOTE Confidence: 0.876685077

01:04:40.420 --> 01:04:42.928 about 36 months before the clinical

NOTE Confidence: 0.876685077

01:04:42.928 --> 01:04:44.713 presentation of pancreatic cancer.

NOTE Confidence: 0.876685077

01:04:44.713 --> 01:04:47.851 So this then is being translated

NOTE Confidence: 0.876685077

01:04:47.851 --> 01:04:50.678 into another way to try and enrich

NOTE Confidence: 0.876685077

01:04:50.678 --> 01:04:52.682 or find certain populations who

NOTE Confidence: 0.876685077

01:04:52.682 --> 01:04:55.064 are at higher risk for developing

NOTE Confidence: 0.876685077

01:04:55.064 --> 01:04:56.930 pancreatic cancer and study it.

NOTE Confidence: 0.876685077

01:04:56.930 --> 01:04:58.414 And so this is very much at

NOTE Confidence: 0.876685077

01:04:58.414 --> 01:04:59.580 a research level right now,

NOTE Confidence: 0.876685077

01:04:59.580 --> 01:05:01.090 but it is gathering speed.

NOTE Confidence: 0.853211456

01:05:03.230 --> 01:05:05.165 The final and big area that I do want

NOTE Confidence: 0.853211456

01:05:05.165 --> 01:05:07.405 to talk to you about this evening

NOTE Confidence: 0.853211456

01:05:07.405 --> 01:05:08.717 is familial pancreatic cancer,

NOTE Confidence: 0.853211456

01:05:08.720 --> 01:05:10.940 so it's guesstimated that when

NOTE Confidence: 0.853211456

01:05:10.940 --> 01:05:13.160 you think about all patients

NOTE Confidence: 0.853211456

01:05:13.239 --> 01:05:15.799 presenting with pancreatic cancer.

NOTE Confidence: 0.853211456

01:05:15.800 --> 01:05:18.062 About a total of anywhere between

NOTE Confidence: 0.853211456

01:05:18.062 --> 01:05:21.140 10 or 15% of these patients will

NOTE Confidence: 0.853211456

01:05:21.140 --> 01:05:23.460 have either a familial component,

NOTE Confidence: 0.853211456

01:05:23.460 --> 01:05:24.890 meaning when you ask them

NOTE Confidence: 0.853211456

01:05:24.890 --> 01:05:26.034 about their family history,

NOTE Confidence: 0.853211456

01:05:26.040 --> 01:05:28.595 they'll tell you that they have a.

NOTE Confidence: 0.853211456

01:05:28.600 --> 01:05:31.696 You know, two first degree relatives.

NOTE Confidence: 0.853211456

01:05:31.700 --> 01:05:33.024 One first degree relatives,

NOTE Confidence: 0.853211456

01:05:33.024 --> 01:05:34.740 several secondary relatives, and so on.

NOTE Confidence: 0.853211456

01:05:34.740 --> 01:05:35.460 So does it.

NOTE Confidence: 0.853211456

01:05:35.460 --> 01:05:37.086 I definitely lineages going on in

NOTE Confidence: 0.853211456

01:05:37.086 --> 01:05:38.779 that family when you ask it off,

NOTE Confidence: 0.853211456

01:05:38.780 --> 01:05:39.760 people forget to ask,

NOTE Confidence: 0.853211456

01:05:39.760 --> 01:05:41.557 but I think now people are becoming

NOTE Confidence: 0.853211456

01:05:41.557 --> 01:05:43.848 more aware of that and then a certain

NOTE Confidence: 0.853211456

01:05:43.848 --> 01:05:45.333 percentage of these patients then.

NOTE Confidence: 0.853211456

01:05:45.340 --> 01:05:47.764 We actually have a documented and

NOTE Confidence: 0.853211456

01:05:47.764 --> 01:05:50.000 detectable germline mutation that we can

NOTE Confidence: 0.853211456

01:05:50.000 --> 01:05:52.216 find in the blood that can further kind

NOTE Confidence: 0.853211456

01:05:52.285 --> 01:05:54.634 of steer and guide us about what to do.

NOTE Confidence: 0.853211456

01:05:54.640 --> 01:05:56.620 Uhm, when we think about

NOTE Confidence: 0.853211456

01:05:56.620 --> 01:05:57.808 familial pancreatic cancer,

NOTE Confidence: 0.853211456

01:05:57.810 --> 01:05:59.362 obviously the more family

NOTE Confidence: 0.853211456

01:05:59.362 --> 01:06:00.914 members that are affected,

NOTE Confidence: 0.853211456

01:06:00.920 --> 01:06:02.630 the greater your relative risk

NOTE Confidence: 0.853211456

01:06:02.630 --> 01:06:03.998 of developing pancreatic cancer.

NOTE Confidence: 0.853211456

01:06:04.000 --> 01:06:06.706 So if you've got three first

NOTE Confidence: 0.853211456

01:06:06.706 --> 01:06:07.608 degree relatives.

NOTE Confidence: 0.853211456

01:06:07.610 --> 01:06:08.078 Uhm,

NOTE Confidence: 0.853211456

01:06:08.078 --> 01:06:11.213 you have a 32 full relative risk

NOTE Confidence: 0.853211456

01:06:11.213 --> 01:06:13.318 compared to individuals who don't

NOTE Confidence: 0.853211456

01:06:13.318 --> 01:06:15.799 have that type of family history.

NOTE Confidence: 0.853211456

01:06:15.800 --> 01:06:18.677 If you've got one first degree relative,

NOTE Confidence: 0.853211456

01:06:18.680 --> 01:06:20.220 it's unclear what the significance

NOTE Confidence: 0.853211456

01:06:20.220 --> 01:06:22.288 of that is in terms of whether

NOTE Confidence: 0.853211456

01:06:22.288 --> 01:06:23.698 we act upon it or not,

NOTE Confidence: 0.853211456

01:06:23.700 --> 01:06:25.996 and so it doesn't meet the definitive

NOTE Confidence: 0.853211456

01:06:25.996 --> 01:06:28.113 criteria for saying someone has a

NOTE Confidence: 0.853211456

01:06:28.113 --> 01:06:29.898 familial pancreatic cancer comes from

NOTE Confidence: 0.853211456

01:06:29.898 --> 01:06:32.169 a familial pancreatic cancer kindred.

NOTE Confidence: 0.853211456

01:06:32.170 --> 01:06:33.510 We certainly take notice,

NOTE Confidence: 0.853211456

01:06:33.510 --> 01:06:34.515 especially when individuals

NOTE Confidence: 0.853211456

01:06:34.515 --> 01:06:36.030 are young and families.

NOTE Confidence: 0.853211456

01:06:36.030 --> 01:06:37.720 But again, having just one.

NOTE Confidence: 0.853211456

01:06:37.720 --> 01:06:38.516 Family member.

NOTE Confidence: 0.853211456

01:06:38.516 --> 01:06:40.904 I probably does not meet those.

NOTE Confidence: 0.853211456

01:06:40.910 --> 01:06:42.398 You know definite criteria.

NOTE Confidence: 0.853211456

01:06:42.398 --> 01:06:44.258 It's also interesting to note

NOTE Confidence: 0.853211456

01:06:44.258 --> 01:06:46.695 that despite a lot of knowledge

NOTE Confidence: 0.853211456

01:06:46.695 --> 01:06:48.295 about familial pancreatic cancer,

NOTE Confidence: 0.853211456

01:06:48.300 --> 01:06:50.730 and the fact that it runs in the family,

NOTE Confidence: 0.853211456

01:06:50.730 --> 01:06:53.520 the entire mode of transmission

NOTE Confidence: 0.853211456

01:06:53.520 --> 01:06:56.310 and hardens is still unclear.

NOTE Confidence: 0.853211456

01:06:56.310 --> 01:06:58.746 The most common abnormality that's found

NOTE Confidence: 0.853211456

01:06:58.746 --> 01:07:01.348 from a genetic perspective is the bracket,

NOTE Confidence: 0.853211456

01:07:01.350 --> 01:07:01.730 two mutation,

NOTE Confidence: 0.853211456

01:07:01.730 --> 01:07:03.060 but it's still as you can see,

NOTE Confidence: 0.853211456

01:07:03.060 --> 01:07:05.533 only found it up to 20% of patients,

NOTE Confidence: 0.853211456

01:07:05.533 --> 01:07:08.439 so it's still not a large number of patients,

NOTE Confidence: 0.853211456

01:07:08.440 --> 01:07:09.752 and there are probably.

NOTE Confidence: 0.853211456

01:07:09.752 --> 01:07:10.080 Other,

NOTE Confidence: 0.853211456

01:07:10.080 --> 01:07:12.010 either genes that haven't been

NOTE Confidence: 0.853211456

01:07:12.010 --> 01:07:13.940 discovered or or defined yet,

NOTE Confidence: 0.853211456

01:07:13.940 --> 01:07:16.562 or some other shared environmental issues

NOTE Confidence: 0.853211456

01:07:16.562 --> 01:07:19.769 that we still have to scratch away at.

NOTE Confidence: 0.853211456

01:07:19.770 --> 01:07:22.443 So here is a list of the broad familial

NOTE Confidence: 0.853211456

01:07:22.443 --> 01:07:24.870 syndromes associated with pancreatic cancer.

NOTE Confidence: 0.853211456

01:07:24.870 --> 01:07:26.858 Most of them you will hear about

NOTE Confidence: 0.853211456

01:07:26.858 --> 01:07:28.890 in some other form this evening,

NOTE Confidence: 0.853211456

01:07:28.890 --> 01:07:32.274 and we've certainly very commonly talked

NOTE Confidence: 0.853211456

01:07:32.274 --> 01:07:35.719 about bracket two and bracket one,

NOTE Confidence: 0.853211456

01:07:35.720 --> 01:07:37.532 and increasingly recognizing the

NOTE Confidence: 0.853211456

01:07:37.532 --> 01:07:41.359 importance of pal B2 as a player in

NOTE Confidence: 0.853211456

01:07:41.359 --> 01:07:43.924 familial risk for pancreatic cancer.

NOTE Confidence: 0.853211456

01:07:43.930 --> 01:07:44.258 Also,

NOTE Confidence: 0.853211456

01:07:44.258 --> 01:07:46.226 pretty girl you heard just Dr

NOTE Confidence: 0.853211456

01:07:46.226 --> 01:07:48.340 lower torque talk about hereditary

NOTE Confidence: 0.853211456

01:07:48.340 --> 01:07:49.936 nonpolyposis colon cancer.

NOTE Confidence: 0.853211456

01:07:49.940 --> 01:07:52.075 A variety of hereditary pancreatitis

NOTE Confidence: 0.853211456

01:07:52.075 --> 01:07:54.210 syndromes have been defined as

NOTE Confidence: 0.853211456

01:07:54.276 --> 01:07:56.251 risk factors for the development

NOTE Confidence: 0.853211456

01:07:56.251 --> 01:07:58.532 of pancreatic cancer and then at

NOTE Confidence: 0.853211456

01:07:58.532 --> 01:08:00.682 P-16 has a very large or or fan FA.

NOTE Confidence: 0.853211456

01:08:00.682 --> 01:08:02.680 MM is a very large risk factor for the

NOTE Confidence: 0.853211456

01:08:02.738 --> 01:08:04.910 development of pancreatic cancer as well.

NOTE Confidence: 0.85730927375

01:08:07.040 --> 01:08:09.880 Uhm? What we actually do for these patients,

NOTE Confidence: 0.85730927375

01:08:09.880 --> 01:08:11.470 similar to the other patients that

NOTE Confidence: 0.85730927375

01:08:11.470 --> 01:08:12.954 we see with pancreatic cysts as

NOTE Confidence: 0.85730927375

01:08:12.954 --> 01:08:14.752 well as now as we look a little bit

NOTE Confidence: 0.85730927375

01:08:14.752 --> 01:08:16.306 more closely at new onset diabetes,

NOTE Confidence: 0.85730927375

01:08:16.310 --> 01:08:18.680 is really kind of performed in

NOTE Confidence: 0.85730927375

01:08:18.680 --> 01:08:19.865 a multidisciplinary approach.

NOTE Confidence: 0.85730927375

01:08:19.870 --> 01:08:22.090 Uh, currently?

NOTE Confidence: 0.85730927375

01:08:22.090 --> 01:08:23.730 The standard approach is to

NOTE Confidence: 0.85730927375

01:08:23.730 --> 01:08:25.370 start with non invasive imaging,

NOTE Confidence: 0.85730927375

01:08:25.370 --> 01:08:28.858 either a CT scan or preferably an MRI.

NOTE Confidence: 0.85730927375

01:08:28.860 --> 01:08:30.040 Depending on what is found,

NOTE Confidence: 0.85730927375

01:08:30.040 --> 01:08:32.784 then a certain subgroup of patients will

NOTE Confidence: 0.85730927375

01:08:32.784 --> 01:08:35.035 undergo an endoscopic evaluation to take

NOTE Confidence: 0.85730927375

01:08:35.035 --> 01:08:37.748 a closer look at the pancreas to look,

NOTE Confidence: 0.85730927375

01:08:37.748 --> 01:08:39.812 particularly at SIS looking for masses

NOTE Confidence: 0.85730927375

01:08:39.812 --> 01:08:42.220 and to biopsy suspicious lesions.

NOTE Confidence: 0.85730927375

01:08:42.220 --> 01:08:44.065 And then worrisome groups of

NOTE Confidence: 0.85730927375

01:08:44.065 --> 01:08:45.910 patients will ultimately be referred

NOTE Confidence: 0.85730927375

01:08:45.969 --> 01:08:47.739 for surgery to remove a portion

NOTE Confidence: 0.85730927375

01:08:47.739 --> 01:08:49.690 of the pancreas that is either

NOTE Confidence: 0.85730927375

01:08:49.690 --> 01:08:51.904 very concerning or does have a

NOTE Confidence: 0.85730927375

01:08:51.904 --> 01:08:53.564 documented cancer associated with it.

NOTE Confidence: 0.85730927375

01:08:53.564 --> 01:08:57.106 So this is done in a very prospective

NOTE Confidence: 0.85730927375

01:08:57.106 --> 01:08:58.909 multidisciplinary type of approach.

NOTE Confidence: 0.833983937777778

01:09:01.060 --> 01:09:02.620 These are the rules of patients

NOTE Confidence: 0.833983937777778

01:09:02.620 --> 01:09:05.397 that we see in our current high risk

NOTE Confidence: 0.833983937777778

01:09:05.397 --> 01:09:07.069 pancreas cancer surveillance program.

NOTE Confidence: 0.833983937777778

01:09:07.070 --> 01:09:09.820 In our early detection clinic.

NOTE Confidence: 0.833983937777778

01:09:09.820 --> 01:09:11.284 I think about them in terms

NOTE Confidence: 0.833983937777778

01:09:11.284 --> 01:09:12.260 of four broad groups.

NOTE Confidence: 0.833983937777778

01:09:12.260 --> 01:09:13.364 Poutier goes, of course,

NOTE Confidence: 0.833983937777778

01:09:13.364 --> 01:09:15.517 which has a very high risk of

NOTE Confidence: 0.833983937777778

01:09:15.517 --> 01:09:16.819 developing pancreatic cancer.

NOTE Confidence: 0.833983937777778

01:09:16.820 --> 01:09:19.455 We talked about the familial

NOTE Confidence: 0.833983937777778

01:09:19.455 --> 01:09:21.035 pancreatic cancer kindreds.

NOTE Confidence: 0.833983937777778

01:09:21.035 --> 01:09:22.610 We typically start.

NOTE Confidence: 0.833983937777778

01:09:22.610 --> 01:09:28.034 At the age of 55 or 10 years younger than

NOTE Confidence: 0.833983937777778

01:09:28.034 --> 01:09:30.698 the youngest individual in the family,

NOTE Confidence: 0.833983937777778

01:09:30.700 --> 01:09:33.844 and it does require to have two or

NOTE Confidence: 0.833983937777778

01:09:33.844 --> 01:09:36.649 more members with pancreatic cancer,

NOTE Confidence: 0.833983937777778

01:09:36.650 --> 01:09:38.154 one of which is a first degree member.

NOTE Confidence: 0.833983937777778

01:09:38.160 --> 01:09:40.836 So there are some defined criteria.

NOTE Confidence: 0.833983937777778

01:09:40.840 --> 01:09:42.505 Then there are the better

NOTE Confidence: 0.833983937777778

01:09:42.505 --> 01:09:43.736 characterized individuals that, again,

NOTE Confidence: 0.833983937777778

01:09:43.736 --> 01:09:44.866 you're hearing about this evening.

NOTE Confidence: 0.833983937777778

01:09:44.870 --> 01:09:48.370 The germline mutations that have.

NOTE Confidence: 0.833983937777778

01:09:48.370 --> 01:09:50.435 But that must have at least one

NOTE Confidence: 0.833983937777778

01:09:50.435 --> 01:09:52.450 family member with pancreatic cancer,

NOTE Confidence: 0.833983937777778

01:09:52.450 --> 01:09:55.264 so there is a higher group which

NOTE Confidence: 0.833983937777778

01:09:55.264 --> 01:09:56.727 includes P16 bracket, two,

NOTE Confidence: 0.833983937777778

01:09:56.727 --> 01:09:58.526 probably 2 and now ATM is in

NOTE Confidence: 0.833983937777778

01:09:58.526 --> 01:10:00.224 that higher group and a lower

NOTE Confidence: 0.833983937777778

01:10:00.224 --> 01:10:01.904 risk group that we still study,

NOTE Confidence: 0.833983937777778

01:10:01.910 --> 01:10:04.136 which includes the Braca one population

NOTE Confidence: 0.833983937777778

01:10:04.136 --> 01:10:06.859 as well as the HNPCC population,

NOTE Confidence: 0.833983937777778

01:10:06.860 --> 01:10:08.570 but just just remember that for

NOTE Confidence: 0.833983937777778

01:10:08.570 --> 01:10:10.250 the majority of these patients,

NOTE Confidence: 0.833983937777778

01:10:10.250 --> 01:10:11.910 with the exception of P-16,

NOTE Confidence: 0.833983937777778

01:10:11.910 --> 01:10:13.821 it does require there to be some

NOTE Confidence: 0.833983937777778

01:10:13.821 --> 01:10:15.679 family history of pancreatic cancer,

NOTE Confidence: 0.833983937777778

01:10:15.680 --> 01:10:17.940 and then we also mentioned

NOTE Confidence: 0.833983937777778

01:10:17.940 --> 01:10:18.844 hereditary pancreatitis.

NOTE Confidence: 0.833983937777778

01:10:18.850 --> 01:10:19.178 Currently,

NOTE Confidence: 0.833983937777778

01:10:19.178 --> 01:10:21.837 as of this week we have about 205

NOTE Confidence: 0.833983937777778

01:10:21.837 --> 01:10:23.622 patients that we are actively

NOTE Confidence: 0.833983937777778

01:10:23.622 --> 01:10:26.003 managing and following in our high

NOTE Confidence: 0.833983937777778

01:10:26.003 --> 01:10:27.779 risk pancreas surveillance program.

NOTE Confidence: 0.833983937777778

01:10:27.780 --> 01:10:29.980 And again you can see the breakdown there.

NOTE Confidence: 0.833983937777778

01:10:29.980 --> 01:10:31.765 There's a large number that we don't

NOTE Confidence: 0.833983937777778

01:10:31.765 --> 01:10:34.010 have any sort of germline mutation status,

NOTE Confidence: 0.833983937777778

01:10:34.010 --> 01:10:35.739 but a fairly large number have some

NOTE Confidence: 0.833983937777778

01:10:35.739 --> 01:10:37.288 abnormality in a DNA repair gene.

NOTE Confidence: 0.866257938888889

01:10:40.140 --> 01:10:41.589 Just to kind of look at this and say,

NOTE Confidence: 0.866257938888889

01:10:41.590 --> 01:10:43.270 you know this is not as mature

NOTE Confidence: 0.866257938888889

01:10:43.270 --> 01:10:45.079 world as what you're hearing for

NOTE Confidence: 0.866257938888889

01:10:45.079 --> 01:10:46.789 colon cancer and breast cancer.

NOTE Confidence: 0.866257938888889

01:10:46.790 --> 01:10:47.946 Even for ovarian cancer,

NOTE Confidence: 0.866257938888889

01:10:47.946 --> 01:10:50.332 but it is important to say that there

NOTE Confidence: 0.866257938888889

01:10:50.332 --> 01:10:52.102 is involved data and there does

NOTE Confidence: 0.866257938888889

01:10:52.102 --> 01:10:54.166 appear to be data that says support

NOTE Confidence: 0.866257938888889

01:10:54.170 --> 01:10:56.420 surveillance in high risk individuals.

NOTE Confidence: 0.866257938888889

01:10:56.420 --> 01:10:58.904 From the perspective of an improved

NOTE Confidence: 0.866257938888889

01:10:58.904 --> 01:11:00.560 outcome associated with those

NOTE Confidence: 0.866257938888889

01:11:00.628 --> 01:11:02.260 individuals that have cancers

NOTE Confidence: 0.866257938888889

01:11:02.260 --> 01:11:05.108 detected as part of a surveillance as

NOTE Confidence: 0.866257938888889

01:11:05.108 --> 01:11:07.130 opposed to those that just present

NOTE Confidence: 0.866257938888889

01:11:07.130 --> 01:11:08.450 sporadically or with symptoms.

NOTE Confidence: 0.866257938888889

01:11:08.450 --> 01:11:10.100 So at least kind of.

NOTE Confidence: 0.866257938888889

01:11:10.100 --> 01:11:13.292 Early data to support that this is a

NOTE Confidence: 0.866257938888889

01:11:13.292 --> 01:11:16.044 good strategy and does does hopefully

NOTE Confidence: 0.866257938888889

01:11:16.044 --> 01:11:20.363 will improve overall survival in this cohort.

NOTE Confidence: 0.866257938888889

01:11:20.370 --> 01:11:22.295 So I'll finish on that and just

NOTE Confidence: 0.866257938888889

01:11:22.295 --> 01:11:23.869 summarize the important point to note.

NOTE Confidence: 0.866257938888889

01:11:23.870 --> 01:11:26.438 Is that right now we still don't have

NOTE Confidence: 0.866257938888889

01:11:26.440 --> 01:11:30.010 don't recommend general population screening.

NOTE Confidence: 0.866257938888889

01:11:30.010 --> 01:11:31.682 But it is an area that's being worked

NOTE Confidence: 0.866257938888889

01:11:31.682 --> 01:11:33.248 on and there are certain blood

NOTE Confidence: 0.866257938888889

01:11:33.248 --> 01:11:34.623 tests that are either available

NOTE Confidence: 0.866257938888889

01:11:34.623 --> 01:11:36.140 or coming down the pipeline.

NOTE Confidence: 0.866257938888889

01:11:36.140 --> 01:11:39.170 Trying to address this particular issue.

NOTE Confidence: 0.866257938888889

01:11:39.170 --> 01:11:41.162 For pancreatic cancer,

NOTE Confidence: 0.866257938888889

01:11:41.162 --> 01:11:44.005 it's now considered standard of

NOTE Confidence: 0.866257938888889

01:11:44.005 --> 01:11:46.530 care for the appropriate indication.

NOTE Confidence: 0.866257938888889

01:11:46.530 --> 01:11:48.602 Although we have a variety of research

NOTE Confidence: 0.866257938888889

01:11:48.602 --> 01:11:50.482 studies that are open that follow

NOTE Confidence: 0.866257938888889

01:11:50.482 --> 01:11:52.354 this group of patients that involve

NOTE Confidence: 0.866257938888889

01:11:52.354 --> 01:11:55.055 again combinations of imaging with MRI

NOTE Confidence: 0.866257938888889

01:11:55.055 --> 01:11:58.680 or endoscopic ultrasound overtime.

NOTE Confidence: 0.866257938888889

01:11:58.680 --> 01:12:00.020 We talked about pancreatic cysts

NOTE Confidence: 0.866257938888889

01:12:00.020 --> 01:12:01.360 as another high risk group,

NOTE Confidence: 0.866257938888889

01:12:01.360 --> 01:12:03.460 and it's a big volume issue,

NOTE Confidence: 0.866257938888889

01:12:03.460 --> 01:12:05.315 and we've opened a study the ekach

NOTE Confidence: 0.866257938888889

01:12:05.315 --> 01:12:07.748 two and eight five study here at Yale

NOTE Confidence: 0.866257938888889

01:12:07.748 --> 01:12:09.323 to actually study this particular

NOTE Confidence: 0.866257938888889

01:12:09.385 --> 01:12:11.893 group in terms of surveillance and

NOTE Confidence: 0.866257938888889

01:12:11.893 --> 01:12:13.147 different surveillance protocols.

NOTE Confidence: 0.866257938888889

01:12:13.150 --> 01:12:15.462 And I would advise you just to keep

NOTE Confidence: 0.866257938888889

01:12:15.462 --> 01:12:18.178 your eye on the diabetes space for

NOTE Confidence: 0.866257938888889

01:12:18.178 --> 01:12:20.248 this particularly new onset diabetes.

NOTE Confidence: 0.866257938888889

01:12:20.250 --> 01:12:21.678 And maybe we'll be looking at

NOTE Confidence: 0.866257938888889

01:12:21.678 --> 01:12:23.030 combining all these risk factors,

NOTE Confidence: 0.866257938888889

01:12:23.030 --> 01:12:25.194 be it family history,

NOTE Confidence: 0.866257938888889

01:12:25.194 --> 01:12:26.276 pancreatic cyst,

NOTE Confidence: 0.866257938888889

01:12:26.280 --> 01:12:29.234 as well as their blood sugar levels.

NOTE Confidence: 0.866257938888889

01:12:29.240 --> 01:12:31.872 I'll also just give a plug for our

NOTE Confidence: 0.866257938888889

01:12:31.872 --> 01:12:33.377 pancreatic cancer early detection

NOTE Confidence: 0.866257938888889

01:12:33.377 --> 01:12:35.729 clinic that is based with Doctor

NOTE Confidence: 0.866257938888889

01:12:35.729 --> 01:12:38.158 Laura's group at the St Rayfield campus

NOTE Confidence: 0.866257938888889

01:12:38.160 --> 01:12:40.116 and my contact information is there.

NOTE Confidence: 0.866257938888889

01:12:40.120 --> 01:12:41.698 If anybody has any specific questions

NOTE Confidence: 0.866257938888889

01:12:41.698 --> 01:12:43.150 for us over time, thank you.

NOTE Confidence: 0.863016425

01:12:46.640 --> 01:12:48.782 Great, thank you so much Doctor Farrell

NOTE Confidence: 0.863016425

01:12:48.782 --> 01:12:51.190 up in the interest of time will

NOTE Confidence: 0.863016425

01:12:51.190 --> 01:12:53.326 quickly move over to Doctor Ratner.

NOTE Confidence: 0.863016425

01:12:53.330 --> 01:12:56.186 UM Elena Ratner is a board certified

NOTE Confidence: 0.863016425

01:12:56.186 --> 01:12:57.410 gynecological oncologist with

NOTE Confidence: 0.863016425

01:12:57.478 --> 01:12:59.562 special interest in chemotherapy

NOTE Confidence: 0.863016425

01:12:59.562 --> 01:13:01.125 targeted drug development,

NOTE Confidence: 0.863016425

01:13:01.130 --> 01:13:02.940 patient quality of life programs,

NOTE Confidence: 0.863016425

01:13:02.940 --> 01:13:04.416 and early cancer detection,

NOTE Confidence: 0.863016425

01:13:04.416 --> 01:13:07.052 she's the director of the discovery to

NOTE Confidence: 0.863016425

01:13:07.052 --> 01:13:08.867 cure early ovarian cancer detection

NOTE Confidence: 0.863016425

01:13:08.867 --> 01:13:11.200 program and founder and director of

NOTE Confidence: 0.863016425

01:13:11.200 --> 01:13:13.250 the Sexuality Intimacy and Menopause.

NOTE Confidence: 0.863016425

01:13:13.250 --> 01:13:14.945 Cancer survivorship program

NOTE Confidence: 0.863016425

01:13:14.945 --> 01:13:16.640 welcome Doctor Ratner.

NOTE Confidence: 0.863016425

01:13:16.640 --> 01:13:17.690 Thank you for joining us.

NOTE Confidence: 0.916921888

01:13:18.500 --> 01:13:20.190 Thank you so much Claire.

NOTE Confidence: 0.916921888

01:13:20.190 --> 01:13:22.409 It is so great to be here.

NOTE Confidence: 0.916921888

01:13:22.410 --> 01:13:24.600 I'm going to share my screen.

NOTE Confidence: 0.916921888

01:13:24.600 --> 01:13:26.550 Bear with me. This is frequently

NOTE Confidence: 0.916921888

01:13:26.550 --> 01:13:28.950 my Achilles heel. Uhm?

NOTE Confidence: 0.908272

01:13:34.370 --> 01:13:37.594 OK. Oh, this actually seems to have worked.

NOTE Confidence: 0.840947530769231

01:13:37.600 --> 01:13:40.904 This is lovely, so I had the

NOTE Confidence: 0.840947530769231

01:13:40.904 --> 01:13:43.630 privilege today to speak to you

NOTE Confidence: 0.840947530769231

01:13:43.630 --> 01:13:50.686 about UM yet another component of.

NOTE Confidence: 0.840947530769231

01:13:50.690 --> 01:13:52.990 The screening and early detection

NOTE Confidence: 0.840947530769231

01:13:52.990 --> 01:13:56.147 in patients who we consider to be

NOTE Confidence: 0.840947530769231

01:13:56.147 --> 01:13:58.469 at high risk for different cancers,

NOTE Confidence: 0.840947530769231

01:13:58.470 --> 01:13:59.530 hereditary cancers,

NOTE Confidence: 0.840947530769231

01:13:59.530 --> 01:14:02.180 and that being ovarian cancer.

NOTE Confidence: 0.813414463636364

01:14:04.550 --> 01:14:06.454 Once. Here we go.

NOTE Confidence: 0.813414463636364

01:14:06.454 --> 01:14:09.950 So the premise of this that many,

NOTE Confidence: 0.813414463636364

01:14:09.950 --> 01:14:12.729 many have now spoken before me is

NOTE Confidence: 0.813414463636364

01:14:12.729 --> 01:14:14.927 this the driving hypothesis that

NOTE Confidence: 0.813414463636364

01:14:14.927 --> 01:14:17.693 many patients may be at increased

NOTE Confidence: 0.813414463636364

01:14:17.693 --> 01:14:20.244 risk for several cancers based

NOTE Confidence: 0.813414463636364

01:14:20.244 --> 01:14:22.824 on personal or family history,

NOTE Confidence: 0.813414463636364

01:14:22.830 --> 01:14:25.194 genetic status, personal history,

NOTE Confidence: 0.813414463636364

01:14:25.194 --> 01:14:26.967 but typical hyperplasia,

NOTE Confidence: 0.813414463636364

01:14:26.970 --> 01:14:28.955 and it's so important because

NOTE Confidence: 0.813414463636364

01:14:28.955 --> 01:14:31.452 so much in our current culture

NOTE Confidence: 0.813414463636364

01:14:31.452 --> 01:14:34.008 is becoming not about you know.

NOTE Confidence: 0.813414463636364

01:14:34.010 --> 01:14:35.000 Especially you know.

NOTE Confidence: 0.813414463636364

01:14:35.000 --> 01:14:36.320 In, particularly in cancer,

NOTE Confidence: 0.813414463636364

01:14:36.320 --> 01:14:38.056 you know the conversation now is really.

NOTE Confidence: 0.813414463636364

01:14:38.060 --> 01:14:40.376 No longer about what do we

NOTE Confidence: 0.813414463636364

01:14:40.376 --> 01:14:41.920 do to curing cancer,

NOTE Confidence: 0.813414463636364

01:14:41.920 --> 01:14:44.230 and it's not even as much

NOTE Confidence: 0.813414463636364

01:14:44.230 --> 01:14:46.286 about early detection as those

NOTE Confidence: 0.813414463636364

01:14:46.286 --> 01:14:48.466 two had been so challenging.

NOTE Confidence: 0.813414463636364

01:14:48.470 --> 01:14:50.705 A lot of conversations currently

NOTE Confidence: 0.813414463636364

01:14:50.705 --> 01:14:52.493 are about cancer prevention,

NOTE Confidence: 0.813414463636364

01:14:52.500 --> 01:14:55.160 so that is why this risk assessment

NOTE Confidence: 0.813414463636364

01:14:55.160 --> 01:14:57.880 is so important because there are

NOTE Confidence: 0.813414463636364

01:14:57.880 --> 01:15:00.380 options for either surveillance or

NOTE Confidence: 0.813414463636364

01:15:00.380 --> 01:15:03.009 risk reduction for these patients

NOTE Confidence: 0.813414463636364

01:15:03.009 --> 01:15:05.724 and for their family members.

NOTE Confidence: 0.813414463636364

01:15:05.730 --> 01:15:06.039 Uhm,

NOTE Confidence: 0.813414463636364

01:15:06.039 --> 01:15:07.584 and management of these patients

NOTE Confidence: 0.813414463636364

01:15:07.584 --> 01:15:10.212 up to now has been there very much

NOTE Confidence: 0.813414463636364

01:15:10.212 --> 01:15:12.210 piece meal by variety of providers

NOTE Confidence: 0.813414463636364

01:15:12.273 --> 01:15:14.085 in several groups and this is,

NOTE Confidence: 0.813414463636364

01:15:14.090 --> 01:15:14.640 you know,

NOTE Confidence: 0.813414463636364

01:15:14.640 --> 01:15:16.565 they might kind of my passion again.

NOTE Confidence: 0.813414463636364

01:15:16.570 --> 01:15:17.358 In particular,

NOTE Confidence: 0.813414463636364

01:15:17.358 --> 01:15:20.116 brain cancer is that the signs and

NOTE Confidence: 0.813414463636364

01:15:20.116 --> 01:15:22.347 symptoms of being cancer so unique,

NOTE Confidence: 0.813414463636364

01:15:22.350 --> 01:15:24.684 but also still make that patients

NOTE Confidence: 0.813414463636364

01:15:24.684 --> 01:15:27.066 they frequently get seen by different

NOTE Confidence: 0.813414463636364

01:15:27.066 --> 01:15:29.322 providers who do great job ruling

NOTE Confidence: 0.813414463636364

01:15:29.322 --> 01:15:31.689 out there 'cause of the symptoms.

NOTE Confidence: 0.813414463636364

01:15:31.690 --> 01:15:34.546 But do not connect the pieces to

NOTE Confidence: 0.813414463636364

01:15:34.550 --> 01:15:36.390 appreciate that these signs and

NOTE Confidence: 0.813414463636364

01:15:36.390 --> 01:15:37.740 symptoms will vary in cancer.

NOTE Confidence: 0.813414463636364

01:15:37.740 --> 01:15:39.406 And that is why it's so important

NOTE Confidence: 0.813414463636364

01:15:39.406 --> 01:15:41.497 that we come up with a comprehensive

NOTE Confidence: 0.813414463636364

01:15:41.497 --> 01:15:43.250 approach to this patient population.

NOTE Confidence: 0.7436802925

01:15:45.500 --> 01:15:47.300 So here is a cancer is as clear,

NOTE Confidence: 0.7436802925

01:15:47.300 --> 01:15:49.830 discussed 10% of all cancers,

NOTE Confidence: 0.7436802925

01:15:49.830 --> 01:15:52.286 probably higher than that.

NOTE Confidence: 0.7436802925

01:15:52.286 --> 01:15:55.530 Mutations within a single data jeans.

NOTE Confidence: 0.7436802925

01:15:55.530 --> 01:15:57.178 But of course, again,

NOTE Confidence: 0.7436802925

01:15:57.178 --> 01:15:59.238 Astaire discussed whole exome sequencing.

NOTE Confidence: 0.7436802925

01:15:59.240 --> 01:16:00.780 Our understanding of cancer

NOTE Confidence: 0.7436802925

01:16:00.780 --> 01:16:02.705 genetics is about to change,

NOTE Confidence: 0.7436802925

01:16:02.710 --> 01:16:05.447 and this percentage is going to grow.

NOTE Confidence: 0.7436802925

01:16:05.450 --> 01:16:06.641 In my population,

NOTE Confidence: 0.7436802925

01:16:06.641 --> 01:16:09.420 the risk factors that we look at

NOTE Confidence: 0.7436802925

01:16:09.504 --> 01:16:11.808 early age of onset of cancer,

NOTE Confidence: 0.7436802925

01:16:11.810 --> 01:16:13.550 multiple affected family members

NOTE Confidence: 0.7436802925

01:16:13.550 --> 01:16:16.160 related cancers in their family and

NOTE Confidence: 0.7436802925

01:16:16.224 --> 01:16:18.548 again in the world of ovarian cancer

NOTE Confidence: 0.7436802925

01:16:18.548 --> 01:16:20.867 is so important that we don't forget

NOTE Confidence: 0.7436802925

01:16:20.867 --> 01:16:23.123 that it's not only women and it's

NOTE Confidence: 0.7436802925

01:16:23.123 --> 01:16:25.361 not only over impressed that there's

NOTE Confidence: 0.7436802925

01:16:25.361 --> 01:16:27.020 many other associated cancers,

NOTE Confidence: 0.7436802925

01:16:27.020 --> 01:16:28.588 such as pancreatic cancer,

NOTE Confidence: 0.7436802925

01:16:28.588 --> 01:16:30.548 that apparel just so beautifully

NOTE Confidence: 0.7436802925

01:16:30.548 --> 01:16:32.473 talked about such as Melanoma,

NOTE Confidence: 0.7436802925

01:16:32.473 --> 01:16:34.819 such as prostate cancer in males

NOTE Confidence: 0.7436802925

01:16:34.819 --> 01:16:37.322 and for us in in the in, the female.

NOTE Confidence: 0.7436802925

01:16:37.322 --> 01:16:39.098 Only feels it's always very important

NOTE Confidence: 0.7436802925

01:16:39.098 --> 01:16:41.250 to remind the patients that when I'm

NOTE Confidence: 0.7436802925

01:16:41.250 --> 01:16:42.755 asking them about family history,

NOTE Confidence: 0.7436802925

01:16:42.760 --> 01:16:44.518 I'm not just asking about their

NOTE Confidence: 0.7436802925

01:16:44.518 --> 01:16:45.690 mom or their grandmother.

NOTE Confidence: 0.7436802925

01:16:45.690 --> 01:16:47.860 I'm also asking about the

NOTE Confidence: 0.7436802925

01:16:47.860 --> 01:16:49.596 paternal line as well.

NOTE Confidence: 0.7436802925

01:16:49.600 --> 01:16:51.056 Multiple primaries,

NOTE Confidence: 0.7436802925

01:16:51.056 --> 01:16:53.240 male breast cancer,

NOTE Confidence: 0.7436802925

01:16:53.240 --> 01:16:53.946 Jewish ancestry,

NOTE Confidence: 0.7436802925

01:16:53.946 --> 01:16:56.417 and then the the subtype of the

NOTE Confidence: 0.7436802925

01:16:56.417 --> 01:16:58.228 ovarian cancer that they have.

NOTE Confidence: 0.9626932

01:17:00.460 --> 01:17:02.220 So I won't go into this,

NOTE Confidence: 0.9626932

01:17:02.220 --> 01:17:03.557 but we already heard so much about

NOTE Confidence: 0.9626932

01:17:03.557 --> 01:17:06.680 that today, so there's a one BRCA

NOTE Confidence: 0.9626932

01:17:06.680 --> 01:17:08.820 2 increase the risk of breast,

NOTE Confidence: 0.9626932

01:17:08.820 --> 01:17:10.800 ovarian, prostate, and NBRC.

NOTE Confidence: 0.9626932

01:17:10.800 --> 01:17:13.275 2 increase risk of breast,

NOTE Confidence: 0.9626932

01:17:13.280 --> 01:17:15.228 ovarian, prostate in men,

NOTE Confidence: 0.9626932

01:17:15.228 --> 01:17:17.663 as well as pancreatic cancer

NOTE Confidence: 0.9626932

01:17:17.663 --> 01:17:19.830 and male breast cancer.

NOTE Confidence: 0.9626932

01:17:19.830 --> 01:17:22.482 The these genes increase the risk

NOTE Confidence: 0.9626932

01:17:22.482 --> 01:17:24.250 of cancer space substantially,

NOTE Confidence: 0.9626932

01:17:24.250 --> 01:17:25.447 so breast cancer,

NOTE Confidence: 0.9626932

01:17:25.447 --> 01:17:28.240 being the most common as high as

NOTE Confidence: 0.9626932

01:17:28.240 --> 01:17:32.100 85% black 180% bracket two and

NOTE Confidence: 0.9626932

01:17:32.100 --> 01:17:34.998 then as high as 60% for Brock and

NOTE Confidence: 0.9626932

01:17:34.998 --> 01:17:37.210 one for the risk of varying cancer

NOTE Confidence: 0.9626932

01:17:37.283 --> 01:17:39.594 and as high as 40% for bracket.

NOTE Confidence: 0.9626932

01:17:39.594 --> 01:17:43.820 Two in in ovarian cancer in bracket 2.

NOTE Confidence: 0.810510846666667

01:17:50.410 --> 01:17:52.106 And the estimated lifetime

NOTE Confidence: 0.810510846666667

01:17:52.106 --> 01:17:54.226 cancer risks of other cancers,

NOTE Confidence: 0.810510846666667

01:17:54.230 --> 01:17:55.560 such as pancreatic and prostate.

NOTE Confidence: 0.810510846666667

01:17:55.560 --> 01:17:57.107 Male breasts, are also, as you know,

NOTE Confidence: 0.810510846666667

01:17:57.110 --> 01:18:00.200 increased with again as high as

NOTE Confidence: 0.810510846666667

01:18:00.200 --> 01:18:03.290 doubling for prostate cancer increasing.

NOTE Confidence: 0.810510846666667

01:18:03.290 --> 01:18:04.746 Again, it's like apparel,

NOTE Confidence: 0.810510846666667

01:18:04.746 --> 01:18:05.838 just talked about,

NOTE Confidence: 0.810510846666667

01:18:05.840 --> 01:18:10.550 and then five to 10% in male breast cancer.

NOTE Confidence: 0.810510846666667

01:18:10.550 --> 01:18:12.412 So I'm going to jump into the

NOTE Confidence: 0.810510846666667

01:18:12.412 --> 01:18:13.570 garage cancers because again,

NOTE Confidence: 0.810510846666667

01:18:13.570 --> 01:18:15.922 you have heard so much already about other

NOTE Confidence: 0.810510846666667

01:18:15.922 --> 01:18:18.259 cancers and risk for the genetic mutations.

NOTE Confidence: 0.810510846666667

01:18:18.260 --> 01:18:20.045 So I will talk about ovarian cancer.

NOTE Confidence: 0.810510846666667

01:18:20.050 --> 01:18:21.820 Ovarian cancer is not the most

NOTE Confidence: 0.810510846666667

01:18:21.820 --> 01:18:23.430 common kind of classical agency.

NOTE Confidence: 0.810510846666667

01:18:23.430 --> 01:18:25.100 The most common cause malignancy

NOTE Confidence: 0.810510846666667

01:18:25.100 --> 01:18:26.436 is the uterine cancer,

NOTE Confidence: 0.810510846666667

01:18:26.440 --> 01:18:28.966 but it's by far the deadliest.

NOTE Confidence: 0.810510846666667

01:18:28.970 --> 01:18:31.473 There's 22,000 cases they

NOTE Confidence: 0.810510846666667

01:18:31.473 --> 01:18:32.997 get diagnosed every year,

NOTE Confidence: 0.810510846666667

01:18:33.000 --> 01:18:36.756 and 15,000 women die every year.

NOTE Confidence: 0.810510846666667

01:18:36.760 --> 01:18:39.190 So as much as much as we have tried,

NOTE Confidence: 0.810510846666667

01:18:39.190 --> 01:18:41.600 you know this is not for the lack of trying.

NOTE Confidence: 0.810510846666667

01:18:41.600 --> 01:18:43.231 A lot of research has got in

NOTE Confidence: 0.810510846666667

01:18:43.231 --> 01:18:45.140 to be in cancer management.

NOTE Confidence: 0.810510846666667

01:18:45.140 --> 01:18:47.625 A lot of research has gone into

NOTE Confidence: 0.810510846666667

01:18:47.630 --> 01:18:51.982 chemotherapy regimens and resistance,

NOTE Confidence: 0.810510846666667

01:18:51.982 --> 01:18:54.620 chemotherapy resistance regiments,

NOTE Confidence: 0.810510846666667

01:18:54.620 --> 01:18:58.760 and we've done so much research and so much

NOTE Confidence: 0.810510846666667

01:18:58.846 --> 01:19:02.506 advancement and surgical cancer management.

NOTE Confidence: 0.810510846666667

01:19:02.510 --> 01:19:04.316 You know I can now do surgeries.

NOTE Confidence: 0.810510846666667

01:19:04.320 --> 01:19:05.331 Laparoscopic Lee where

NOTE Confidence: 0.810510846666667

01:19:05.331 --> 01:19:07.016 women go home same day.

NOTE Confidence: 0.810510846666667

01:19:07.020 --> 01:19:09.324 Where in the past you know five years back

NOTE Confidence: 0.810510846666667

01:19:09.324 --> 01:19:11.615 women will help would have a huge incision.

NOTE Confidence: 0.810510846666667

01:19:11.620 --> 01:19:13.237 On their bellies, and would stay in

NOTE Confidence: 0.810510846666667

01:19:13.237 --> 01:19:14.479 the hospital longer than a week.

NOTE Confidence: 0.810510846666667

01:19:14.480 --> 01:19:16.993 So so the field is moving and

NOTE Confidence: 0.810510846666667

01:19:16.993 --> 01:19:19.319 things have have have been done,

NOTE Confidence: 0.810510846666667

01:19:19.320 --> 01:19:22.064 but sadly it has not moved the

NOTE Confidence: 0.810510846666667

01:19:22.064 --> 01:19:23.980 mortality of this disease,

NOTE Confidence: 0.810510846666667

01:19:23.980 --> 01:19:25.564 and that is unacceptable.

NOTE Confidence: 0.810510846666667

01:19:25.564 --> 01:19:28.472 The big part of this challenge in

NOTE Confidence: 0.810510846666667

01:19:28.472 --> 01:19:31.226 improvement in mortality is again the

NOTE Confidence: 0.810510846666667

01:19:31.226 --> 01:19:33.388 staff that unfortunately this cancer

NOTE Confidence: 0.810510846666667

01:19:33.388 --> 01:19:36.504 is continue to be diagnosed at a later stage.

NOTE Confidence: 0.810510846666667

01:19:36.504 --> 01:19:38.492 I will talk a little bit about

NOTE Confidence: 0.810510846666667

01:19:38.492 --> 01:19:40.184 difficulty of this and why this

NOTE Confidence: 0.810510846666667

01:19:40.184 --> 01:19:42.180 cancer is diagnosed at a later stage.

NOTE Confidence: 0.810510846666667

01:19:42.180 --> 01:19:45.246 But most cancers are still a diagnosis.

NOTE Confidence: 0.810510846666667

01:19:45.250 --> 01:19:46.990 Stage three and stage four,

NOTE Confidence: 0.810510846666667

01:19:46.990 --> 01:19:48.870 and the difference in survival

NOTE Confidence: 0.810510846666667

01:19:48.870 --> 01:19:50.750 between the woman who's diagnosed

NOTE Confidence: 0.810510846666667

01:19:50.815 --> 01:19:52.579 with stage one is life saving.

NOTE Confidence: 0.810510846666667

01:19:52.580 --> 01:19:54.668 You know somebody who's like those

NOTE Confidence: 0.810510846666667

01:19:54.668 --> 01:19:57.216 to stage one has 92 to 95% chance

NOTE Confidence: 0.810510846666667

01:19:57.216 --> 01:19:59.424 of survival versus only as low

NOTE Confidence: 0.810510846666667

01:19:59.424 --> 01:20:01.104 as 20% in advance stages.

NOTE Confidence: 0.810510846666667

01:20:01.104 --> 01:20:04.363 That is why it is so important for us

NOTE Confidence: 0.810510846666667

01:20:04.363 --> 01:20:07.226 to try to detect these cancers early,

NOTE Confidence: 0.810510846666667

01:20:07.230 --> 01:20:10.494 but more importantly, to try to prevent them.

NOTE Confidence: 0.810510846666667

01:20:10.500 --> 01:20:12.190 So part of the challenge.

NOTE Confidence: 0.810510846666667

01:20:12.190 --> 01:20:14.122 Are this limitation is that we have

NOTE Confidence: 0.810510846666667

01:20:14.122 --> 01:20:15.785 always been told we have always

NOTE Confidence: 0.810510846666667

01:20:15.785 --> 01:20:17.345 said there are varying cancer is

NOTE Confidence: 0.810510846666667

01:20:17.345 --> 01:20:19.412 a disease that whispers, you know,

NOTE Confidence: 0.810510846666667

01:20:19.412 --> 01:20:21.222 for generations we were told, you know,

NOTE Confidence: 0.810510846666667

01:20:21.222 --> 01:20:22.278 there's just nothing you can do.

NOTE Confidence: 0.810510846666667

01:20:22.280 --> 01:20:23.988 You can never find these cancers early.

NOTE Confidence: 0.810510846666667

01:20:23.990 --> 01:20:26.120 They are always like this.

NOTE Confidence: 0.810510846666667

01:20:26.120 --> 01:20:28.106 There's no symptoms until the disease

NOTE Confidence: 0.810510846666667

01:20:28.106 --> 01:20:30.129 and stage three and stage four,

NOTE Confidence: 0.810510846666667

01:20:30.130 --> 01:20:31.677 so there's really nothing that we as

NOTE Confidence: 0.810510846666667

01:20:31.677 --> 01:20:33.356 a field can do to make it better.

NOTE Confidence: 0.810510846666667

01:20:33.360 --> 01:20:35.496 But we know that it is very much

NOTE Confidence: 0.810510846666667

01:20:35.496 --> 01:20:36.440 not the case.

NOTE Confidence: 0.810510846666667

01:20:36.440 --> 01:20:38.768 We now know that ovarian cancer

NOTE Confidence: 0.810510846666667

01:20:38.768 --> 01:20:39.932 doesn't necessarily whisper,

NOTE Confidence: 0.810510846666667

01:20:39.940 --> 01:20:42.194 it's really that a lot of people

NOTE Confidence: 0.810510846666667

01:20:42.194 --> 01:20:43.619 are not listening to it.

NOTE Confidence: 0.810510846666667

01:20:43.620 --> 01:20:46.224 And that has to do with awareness

NOTE Confidence: 0.810510846666667

01:20:46.224 --> 01:20:47.340 on the patients

NOTE Confidence: 0.934914226666667

01:20:47.425 --> 01:20:48.489 patient sides.

NOTE Confidence: 0.934914226666667

01:20:48.490 --> 01:20:49.740 The vagueness of the symptoms,

NOTE Confidence: 0.934914226666667

01:20:49.740 --> 01:20:52.420 but also some limitations on

NOTE Confidence: 0.934914226666667

01:20:52.420 --> 01:20:55.100 the provider side as well.

NOTE Confidence: 0.934914226666667

01:20:55.100 --> 01:20:57.375 So some very good studies came out.

NOTE Confidence: 0.934914226666667

01:20:57.380 --> 01:20:59.284 This is one of the Seminole ones

NOTE Confidence: 0.934914226666667

01:20:59.284 --> 01:21:01.243 by Barbara Golf from Seattle that

NOTE Confidence: 0.934914226666667

01:21:01.243 --> 01:21:03.053 talked about that ovarian cancer

NOTE Confidence: 0.934914226666667

01:21:03.053 --> 01:21:05.199 presents with these specific symptoms,

NOTE Confidence: 0.934914226666667

01:21:05.200 --> 01:21:07.200 abdominal discomfort, GI discomfort,

NOTE Confidence: 0.934914226666667

01:21:07.200 --> 01:21:09.389 pain, constitutional, urine, pelvic,

NOTE Confidence: 0.934914226666667

01:21:09.389 --> 01:21:12.767 and even though great majority of

NOTE Confidence: 0.934914226666667

01:21:12.767 --> 01:21:15.621 them in stage three and four that

NOTE Confidence: 0.934914226666667

01:21:15.621 --> 01:21:17.868 that is 7% of patients in stage

NOTE Confidence: 0.934914226666667

01:21:17.868 --> 01:21:20.119 three and four had the symptoms,

NOTE Confidence: 0.934914226666667

01:21:20.120 --> 01:21:22.276 89% of women in stage one and

NOTE Confidence: 0.934914226666667

01:21:22.276 --> 01:21:24.500 two had those symptoms as well.

NOTE Confidence: 0.934914226666667

01:21:24.500 --> 01:21:26.270 And this study kind of debunked.

NOTE Confidence: 0.934914226666667

01:21:26.270 --> 01:21:28.178 This whole concept that we had.

NOTE Confidence: 0.934914226666667

01:21:28.180 --> 01:21:30.676 Talked about this so long before that the

NOTE Confidence: 0.934914226666667

01:21:30.676 --> 01:21:33.355 women in the early stage had no symptoms.

NOTE Confidence: 0.934914226666667

01:21:33.360 --> 01:21:34.034 Barbara Gold,

NOTE Confidence: 0.934914226666667

01:21:34.034 --> 01:21:36.056 they clearly kind of looked into

NOTE Confidence: 0.934914226666667

01:21:36.056 --> 01:21:38.578 who who are the patients who ended

NOTE Confidence: 0.934914226666667

01:21:38.578 --> 01:21:40.358 up having this ovarian cancer.

NOTE Confidence: 0.934914226666667

01:21:40.360 --> 01:21:40.876 Because, honestly,

NOTE Confidence: 0.934914226666667

01:21:40.876 --> 01:21:42.940 like any of us looking at the symptoms,

NOTE Confidence: 0.934914226666667

01:21:42.940 --> 01:21:44.752 it looks very concerning because all

NOTE Confidence: 0.934914226666667

01:21:44.752 --> 01:21:47.186 of us experience these symptoms and but

NOTE Confidence: 0.934914226666667

01:21:47.186 --> 01:21:49.454 she very much created this assessment.

NOTE Confidence: 0.934914226666667

01:21:49.460 --> 01:21:51.672 Risk assessment for women and for the

NOTE Confidence: 0.934914226666667

01:21:51.672 --> 01:21:53.759 women who actually had ovarian cancer.

NOTE Confidence: 0.934914226666667

01:21:53.760 --> 01:21:58.310 This woman had it consistently.

NOTE Confidence: 0.934914226666667

01:21:58.310 --> 01:22:01.698 Once every single day for two weeks

NOTE Confidence: 0.934914226666667

01:22:01.700 --> 01:22:04.248 compared to women who had them every

NOTE Confidence: 0.934914226666667

01:22:04.248 --> 01:22:07.357 two to two to three times per month,

NOTE Confidence: 0.934914226666667

01:22:07.360 --> 01:22:09.850 and often associated either with

NOTE Confidence: 0.934914226666667

01:22:09.850 --> 01:22:12.340 population or their menstrual cycles.

NOTE Confidence: 0.934914226666667

01:22:12.340 --> 01:22:12.667 Also,

NOTE Confidence: 0.934914226666667

01:22:12.667 --> 01:22:14.302 having more than one symptom

NOTE Confidence: 0.934914226666667

01:22:14.302 --> 01:22:16.016 was much more associated with

NOTE Confidence: 0.934914226666667

01:22:16.016 --> 01:22:17.726 ovarian cancer than those women.

NOTE Confidence: 0.934914226666667

01:22:17.730 --> 01:22:20.280 They just had hormonal changes,

NOTE Confidence: 0.934914226666667

01:22:20.280 --> 01:22:22.269 so this very much with Samuel study in this,

NOTE Confidence: 0.934914226666667

01:22:22.270 --> 01:22:24.134 I think gives us a voice and gives

NOTE Confidence: 0.934914226666667

01:22:24.134 --> 01:22:26.338 us the opportunity to educate our

NOTE Confidence: 0.934914226666667

01:22:26.338 --> 01:22:28.428 patients and educate communities about.

NOTE Confidence: 0.934914226666667

01:22:28.430 --> 01:22:29.650 Listening to your bodies and

NOTE Confidence: 0.934914226666667

01:22:29.650 --> 01:22:30.870 knowing when something is right.

NOTE Confidence: 0.934914226666667

01:22:30.870 --> 01:22:32.460 It's not right and not always

NOTE Confidence: 0.934914226666667

01:22:32.460 --> 01:22:33.970 just assuming that the symptoms

NOTE Confidence: 0.934914226666667

01:22:33.970 --> 01:22:35.550 you're experiencing a hormonal

NOTE Confidence: 0.934914226666667

01:22:35.550 --> 01:22:36.735 symptoms visible cyst.

NOTE Confidence: 0.934914226666667

01:22:36.740 --> 01:22:39.695 Symptoms are persistent and symptoms

NOTE Confidence: 0.934914226666667

01:22:39.695 --> 01:22:43.197 of multiple than you would need

NOTE Confidence: 0.934914226666667

01:22:43.197 --> 01:22:46.319 to be evaluated to rule this out.

NOTE Confidence: 0.934914226666667

01:22:46.320 --> 01:22:49.836 So as I mentioned 25,000 cases,

NOTE Confidence: 0.934914226666667

01:22:49.840 --> 01:22:51.492 a lot of deaths,

NOTE Confidence: 0.934914226666667

01:22:51.492 --> 01:22:54.530 most common cause of death by farm

NOTE Confidence: 0.934914226666667

01:22:54.530 --> 01:22:57.799 and with Joanne Cancer and 4th leading

NOTE Confidence: 0.934914226666667

01:22:57.799 --> 01:23:01.879 cause of cancer death in the United States.

NOTE Confidence: 0.934914226666667

01:23:01.880 --> 01:23:04.392 So to talk a little bit more about

NOTE Confidence: 0.934914226666667

01:23:04.392 --> 01:23:06.889 how these cancers can be prevented,

NOTE Confidence: 0.934914226666667

01:23:06.890 --> 01:23:08.703 which is really kind of the the

NOTE Confidence: 0.934914226666667

01:23:08.703 --> 01:23:10.657 motif that I want to talk about,

NOTE Confidence: 0.934914226666667

01:23:10.660 --> 01:23:12.669 is what can we do for prevention?

NOTE Confidence: 0.934914226666667

01:23:12.670 --> 01:23:14.212 I think it's important to understand

NOTE Confidence: 0.934914226666667

01:23:14.212 --> 01:23:16.416 who are the women who are at risk

NOTE Confidence: 0.934914226666667

01:23:16.416 --> 01:23:17.536 for epithelial ovarian cancers,

NOTE Confidence: 0.934914226666667

01:23:17.540 --> 01:23:19.730 which are the common ovarian cancers,

NOTE Confidence: 0.934914226666667

01:23:19.730 --> 01:23:22.986 so there's a couple of theories to this.

NOTE Confidence: 0.934914226666667

01:23:22.990 --> 01:23:24.600 There's actually two different theories,

NOTE Confidence: 0.934914226666667

01:23:24.600 --> 01:23:25.726 overbearing cancer.

NOTE Confidence: 0.934914226666667

01:23:25.726 --> 01:23:27.978 One the most common,

NOTE Confidence: 0.934914226666667

01:23:27.980 --> 01:23:32.068 and the oldest is this incessant ambulation.

NOTE Confidence: 0.934914226666667

01:23:32.070 --> 01:23:33.446 So the more times,

NOTE Confidence: 0.934914226666667

01:23:33.446 --> 01:23:35.510 the more that the women ambulates,

NOTE Confidence: 0.934914226666667

01:23:35.510 --> 01:23:38.470 the more risk she has on this tumorigenesis.

NOTE Confidence: 0.934914226666667

01:23:38.470 --> 01:23:41.145 Carcinogenesis so women who have

NOTE Confidence: 0.934914226666667

01:23:41.145 --> 01:23:43.402 had early monarchy, late menopause,

NOTE Confidence: 0.934914226666667

01:23:43.402 --> 01:23:45.684 who haven't had a lot of children

NOTE Confidence: 0.934914226666667

01:23:45.684 --> 01:23:48.104 who didn't breastfeed and who had

NOTE Confidence: 0.934914226666667

01:23:48.104 --> 01:23:50.630 infertility due to probably multiple issues,

NOTE Confidence: 0.934914226666667

01:23:50.630 --> 01:23:53.699 as well as did not use birth control pills,

NOTE Confidence: 0.934914226666667

01:23:53.700 --> 01:23:55.212 and the reasoning for this is

NOTE Confidence: 0.934914226666667

01:23:55.212 --> 01:23:56.901 similar that the more times that

NOTE Confidence: 0.934914226666667

01:23:56.901 --> 01:23:57.849 you're not ovulating,

NOTE Confidence: 0.827783358

01:23:57.850 --> 01:24:00.604 the less risk there is that

NOTE Confidence: 0.827783358

01:24:00.604 --> 01:24:02.440 this tabulation happened and.

NOTE Confidence: 0.827783358

01:24:02.440 --> 01:24:04.148 Precipitate some sort of

NOTE Confidence: 0.827783358

01:24:04.148 --> 01:24:05.429 a cancer development.

NOTE Confidence: 0.827783358

01:24:05.430 --> 01:24:08.628 The more recent thinking of again

NOTE Confidence: 0.827783358

01:24:08.628 --> 01:24:11.918 cancer Genesis is actually not that the

NOTE Confidence: 0.827783358

01:24:11.920 --> 01:24:13.918 cancer actually comes from the ovaries,

NOTE Confidence: 0.827783358

01:24:13.920 --> 01:24:15.605 but rather the cancer comes

NOTE Confidence: 0.827783358

01:24:15.605 --> 01:24:16.953 from the fallopian tubes,

NOTE Confidence: 0.827783358

01:24:16.960 --> 01:24:18.733 and we actually have a lot of thinking now,

NOTE Confidence: 0.827783358

01:24:18.740 --> 01:24:21.345 especially for women with hereditary

NOTE Confidence: 0.827783358

01:24:21.345 --> 01:24:24.600 germline cancers like a BRCA cancer,

NOTE Confidence: 0.827783358

01:24:24.600 --> 01:24:27.669 we very much believe that the origin of the

NOTE Confidence: 0.827783358

01:24:27.669 --> 01:24:30.289 disease is really in the fallopian tubes.

NOTE Confidence: 0.827783358

01:24:30.290 --> 01:24:32.880 Come here after being cancer.

NOTE Confidence: 0.827783358

01:24:32.880 --> 01:24:33.882 Genetic mutations,

NOTE Confidence: 0.827783358

01:24:33.882 --> 01:24:37.389 of course is the biggest risk factor

NOTE Confidence: 0.827783358

01:24:37.389 --> 01:24:39.342 predisposition to being cancer

NOTE Confidence: 0.827783358

01:24:39.342 --> 01:24:42.246 that is between brocco one bracket,

NOTE Confidence: 0.827783358

01:24:42.250 --> 01:24:46.690 2 Lynch and now newly discovered

NOTE Confidence: 0.827783358

01:24:46.690 --> 01:24:48.170 additional genes.

NOTE Confidence: 0.827783358

01:24:48.170 --> 01:24:49.430 As I mentioned before,

NOTE Confidence: 0.827783358

01:24:49.430 --> 01:24:51.320 women with Brock one have as

NOTE Confidence: 0.827783358

01:24:51.387 --> 01:24:53.252 high as 46% chance of ovarian

NOTE Confidence: 0.827783358

01:24:53.252 --> 01:24:56.220 cancer as high as 23% in bracket.

NOTE Confidence: 0.827783358

01:24:56.220 --> 01:24:59.055 Two carriers with a lifetime risk in

NOTE Confidence: 0.827783358

01:24:59.055 --> 01:25:02.670 general population of 1.4 to 1.5%,

NOTE Confidence: 0.827783358

01:25:02.670 --> 01:25:06.030 so significantly increased incidence.

NOTE Confidence: 0.827783358

01:25:06.030 --> 01:25:08.510 Uhm?

NOTE Confidence: 0.827783358

01:25:08.510 --> 01:25:10.981 This is similar data that's shows that

NOTE Confidence: 0.827783358

01:25:10.981 --> 01:25:13.648 the risk of rock ovarian cancer with

NOTE Confidence: 0.827783358

01:25:13.648 --> 01:25:16.650 brocco one and bracket 2 gene mutation,

NOTE Confidence: 0.827783358

01:25:16.650 --> 01:25:19.560 both of breast and ovarian.

NOTE Confidence: 0.827783358

01:25:19.560 --> 01:25:21.080 So what can be done?

NOTE Confidence: 0.827783358

01:25:21.080 --> 01:25:22.940 What other factors that can reduce

NOTE Confidence: 0.827783358

01:25:22.940 --> 01:25:24.640 the risk of ovarian cancer?

NOTE Confidence: 0.827783358

01:25:24.640 --> 01:25:25.820 And there's some simple one.

NOTE Confidence: 0.827783358

01:25:25.820 --> 01:25:27.717 So multi parity really for the same

NOTE Confidence: 0.827783358

01:25:27.717 --> 01:25:29.677 reasoning that I gave you before that,

NOTE Confidence: 0.827783358

01:25:29.680 --> 01:25:32.794 the more the more that the woman is pregnant,

NOTE Confidence: 0.827783358

01:25:32.800 --> 01:25:34.252 the lashes ovulating.

NOTE Confidence: 0.827783358

01:25:34.252 --> 01:25:37.156 You have to have five children

NOTE Confidence: 0.827783358

01:25:37.156 --> 01:25:40.012 to decrease your risk by 50%.

NOTE Confidence: 0.827783358

01:25:40.012 --> 01:25:41.740 I have four children.

NOTE Confidence: 0.827783358

01:25:41.740 --> 01:25:44.636 I'm very close to the benefit and you

NOTE Confidence: 0.827783358

01:25:44.636 --> 01:25:47.433 have to breastfeed every single one

NOTE Confidence: 0.827783358

01:25:47.433 --> 01:25:50.421 for a year for additional benefit.

NOTE Confidence: 0.827783358

01:25:50.430 --> 01:25:54.567 One of one of the very big.

NOTE Confidence: 0.827783358

01:25:54.570 --> 01:25:56.806 Important points of chemoprevention

NOTE Confidence: 0.827783358

01:25:56.806 --> 01:26:01.538 in ovarian cancer is the use of oral

NOTE Confidence: 0.827783358

01:26:01.538 --> 01:26:03.356 contraceptives and that is something

NOTE Confidence: 0.827783358

01:26:03.356 --> 01:26:05.120 that I talk about excessively and

NOTE Confidence: 0.827783358

01:26:05.182 --> 01:26:06.977 use every opportunity to communicate

NOTE Confidence: 0.827783358

01:26:06.977 --> 01:26:08.772 this message because there's a

NOTE Confidence: 0.827783358

01:26:08.828 --> 01:26:10.328 lot of misinformation and lack

NOTE Confidence: 0.827783358

01:26:10.328 --> 01:26:12.225 of knowledge about use of oral

NOTE Confidence: 0.827783358

01:26:12.225 --> 01:26:13.410 contraception's in women.

NOTE Confidence: 0.827783358

01:26:13.410 --> 01:26:16.277 But we know due to that theory

NOTE Confidence: 0.827783358

01:26:16.277 --> 01:26:19.231 that I showed you before about the

NOTE Confidence: 0.827783358

01:26:19.231 --> 01:26:21.736 population that that increases risk

NOTE Confidence: 0.827783358

01:26:21.736 --> 01:26:25.520 that use of ocps birth control pills.

NOTE Confidence: 0.827783358

01:26:25.520 --> 01:26:29.190 Significantly decreases risk ovarian cancer.

NOTE Confidence: 0.827783358

01:26:29.190 --> 01:26:31.332 If a woman uses birth control pills

NOTE Confidence: 0.827783358

01:26:31.332 --> 01:26:33.230 for five years during her lifetime

NOTE Confidence: 0.827783358

01:26:33.230 --> 01:26:35.372 doesn't have to be at the same

NOTE Confidence: 0.827783358

01:26:35.434 --> 01:26:37.269 time could be just cumulative.

NOTE Confidence: 0.827783358

01:26:37.270 --> 01:26:39.896 It decreases her risk by 50% if

NOTE Confidence: 0.827783358

01:26:39.896 --> 01:26:42.600 she uses up a 10 or 15 years,

NOTE Confidence: 0.827783358

01:26:42.600 --> 01:26:44.380 it can include increase,

NOTE Confidence: 0.827783358

01:26:44.380 --> 01:26:47.909 decrease the risk by its highest 80 to 90%,

NOTE Confidence: 0.827783358

01:26:47.910 --> 01:26:49.824 and that risk reduction is not

NOTE Confidence: 0.827783358

01:26:49.824 --> 01:26:51.100 just for general population,

NOTE Confidence: 0.827783358

01:26:51.100 --> 01:26:54.047 it's also for women with BRCA mutations,

NOTE Confidence: 0.827783358

01:26:54.050 --> 01:26:56.120 so it will bear C1 mutation.

NOTE Confidence: 0.827783358

01:26:56.120 --> 01:26:58.556 Is a 40% chance of ovarian cancer

NOTE Confidence: 0.827783358

01:26:58.556 --> 01:27:00.930 and she uses birth control pills

NOTE Confidence: 0.827783358

01:27:00.930 --> 01:27:03.426 for five years that now reduces

NOTE Confidence: 0.827783358

01:27:03.426 --> 01:27:07.139 her risk to 20% and so forth.

NOTE Confidence: 0.827783358

01:27:07.140 --> 01:27:09.300 Tubal ligation, or even better,

NOTE Confidence: 0.827783358

01:27:09.300 --> 01:27:10.300 in this day and age,

NOTE Confidence: 0.827783358

01:27:10.300 --> 01:27:14.296 removal of the tubes is another

NOTE Confidence: 0.827783358

01:27:14.296 --> 01:27:16.851 very significant protective factor.

NOTE Confidence: 0.827783358

01:27:16.851 --> 01:27:20.157 It has relative risk of .3,

NOTE Confidence: 0.827783358

01:27:20.160 --> 01:27:21.900 so you can significantly reduce

NOTE Confidence: 0.827783358

01:27:21.900 --> 01:27:24.330 the risk by either tying the tubes,

NOTE Confidence: 0.827783358

01:27:24.330 --> 01:27:25.908 or even better, be moving it.

NOTE Confidence: 0.827783358

01:27:25.910 --> 01:27:29.669 And I think that is something that.

NOTE Confidence: 0.915851026111111

01:27:29.670 --> 01:27:31.644 Supports the theory that I talked

NOTE Confidence: 0.915851026111111

01:27:31.644 --> 01:27:33.765 about that the cancer might actually

NOTE Confidence: 0.915851026111111

01:27:33.765 --> 01:27:36.003 be coming from the fallopian tubes.

NOTE Confidence: 0.915851026111111

01:27:36.010 --> 01:27:37.830 You know, nowadays tubal ligation,

NOTE Confidence: 0.915851026111111

01:27:37.830 --> 01:27:39.426 really, it's a little bit old school,

NOTE Confidence: 0.915851026111111

01:27:39.430 --> 01:27:41.506 and I again thoroughly argued that

NOTE Confidence: 0.915851026111111

01:27:41.506 --> 01:27:43.609 if you're going to tie tubes,

NOTE Confidence: 0.915851026111111

01:27:43.610 --> 01:27:45.410 you should just remove them entirely,

NOTE Confidence: 0.915851026111111

01:27:45.410 --> 01:27:46.915 and anybody who's having hysterectomy

NOTE Confidence: 0.915851026111111

01:27:46.915 --> 01:27:48.420 for benign reasons should always

NOTE Confidence: 0.915851026111111

01:27:48.464 --> 01:27:49.969 have their fallopian tubes removed.

NOTE Confidence: 0.915851026111111

01:27:49.970 --> 01:27:52.754 I will never leave a fellow P2 behind

NOTE Confidence: 0.915851026111111

01:27:52.754 --> 01:27:56.023 because I very much see it as a very

NOTE Confidence: 0.915851026111111

01:27:56.023 --> 01:27:58.280 significant origin of carcinogenesis.

NOTE Confidence: 0.915851026111111

01:27:58.280 --> 01:28:00.368 And then of course, the most definitive one,

NOTE Confidence: 0.915851026111111

01:28:00.370 --> 01:28:03.058 but also reserved for the highest population,

NOTE Confidence: 0.915851026111111

01:28:03.060 --> 01:28:05.316 which is a risk reducing stopping

NOTE Confidence: 0.915851026111111

01:28:05.316 --> 01:28:06.068 over ectomy.

NOTE Confidence: 0.915851026111111

01:28:06.070 --> 01:28:09.538 Removal of both ovaries and tubes.

NOTE Confidence: 0.915851026111111

01:28:09.540 --> 01:28:12.942 Uhm, these are the relative risks I

NOTE Confidence: 0.915851026111111

01:28:12.942 --> 01:28:15.680 mentioned before umso breastfeeding.

NOTE Confidence: 0.915851026111111

01:28:15.680 --> 01:28:18.980 Really party infertility.

NOTE Confidence: 0.915851026111111

01:28:18.980 --> 01:28:20.760 Previous pregnancy ocps all

NOTE Confidence: 0.915851026111111

01:28:20.760 --> 01:28:22.540 those things I discussed.

NOTE Confidence: 0.915851026111111

01:28:22.540 --> 01:28:25.676 The only thing I didn't mention is the

NOTE Confidence: 0.915851026111111

01:28:25.680 --> 01:28:28.140 family history that even know somebody

NOTE Confidence: 0.915851026111111

01:28:28.140 --> 01:28:31.109 who does not have genetic mutation.

NOTE Confidence: 0.915851026111111

01:28:31.110 --> 01:28:33.420 Having relative with ovarian cancer and

NOTE Confidence: 0.915851026111111

01:28:33.420 --> 01:28:36.437 then compared to two or three relatives

NOTE Confidence: 0.915851026111111

01:28:36.437 --> 01:28:38.782 with a variant cancer significantly

NOTE Confidence: 0.915851026111111

01:28:38.782 --> 01:28:41.198 increases relative risk of developing it.

NOTE Confidence: 0.915851026111111

01:28:41.200 --> 01:28:42.936 So options for viewing

NOTE Confidence: 0.915851026111111

01:28:42.936 --> 01:28:44.238 cancer risk management.

NOTE Confidence: 0.915851026111111

01:28:44.240 --> 01:28:44.916 And yeah,

NOTE Confidence: 0.915851026111111

01:28:44.916 --> 01:28:45.592 you know,

NOTE Confidence: 0.915851026111111

01:28:45.592 --> 01:28:48.046 I always think of risk management pretty

NOTE Confidence: 0.915851026111111

01:28:48.046 --> 01:28:50.559 much the same for every cancer entity,

NOTE Confidence: 0.915851026111111

01:28:50.560 --> 01:28:53.192 so I same As for breast same As

NOTE Confidence: 0.915851026111111

01:28:53.192 --> 01:28:55.278 for pancreas enzymes for ovary.

NOTE Confidence: 0.915851026111111

01:28:55.280 --> 01:28:58.331 So the way I look at it as surveillance

NOTE Confidence: 0.915851026111111

01:28:58.331 --> 01:29:00.066 chemoprevention and again the most

NOTE Confidence: 0.915851026111111

01:29:00.066 --> 01:29:02.064 definitive but the one reserved for

NOTE Confidence: 0.915851026111111

01:29:02.126 --> 01:29:04.246 really the population at highest

NOTE Confidence: 0.915851026111111

01:29:04.246 --> 01:29:05.942 risk is prophylactic surgery.

NOTE Confidence: 0.915851026111111

01:29:05.950 --> 01:29:07.440 So here is the trouble.

NOTE Confidence: 0.915851026111111

01:29:07.440 --> 01:29:11.958 The trouble with. Start with the hardest.

NOTE Confidence: 0.915851026111111

01:29:11.958 --> 01:29:14.193 The trouble with surveillance in

NOTE Confidence: 0.915851026111111

01:29:14.193 --> 01:29:16.448 ovarian cancer is because unfortunately

NOTE Confidence: 0.915851026111111

01:29:16.448 --> 01:29:19.046 we do not have good modalities

NOTE Confidence: 0.915851026111111

01:29:19.122 --> 01:29:21.217 to detect these cancers early,

NOTE Confidence: 0.915851026111111

01:29:21.220 --> 01:29:22.970 and it's due for many different issues.

NOTE Confidence: 0.915851026111111

01:29:22.970 --> 01:29:26.589 I'm not going to bore you with

NOTE Confidence: 0.915851026111111

01:29:26.589 --> 01:29:29.110 the challenges of low PPD.

NOTE Confidence: 0.915851026111111

01:29:29.110 --> 01:29:32.350 And that you need 10% PvP in order

NOTE Confidence: 0.915851026111111

01:29:32.350 --> 01:29:34.920 to achieve this 10% PPV screening

NOTE Confidence: 0.915851026111111

01:29:34.920 --> 01:29:38.245 of general population must have

NOTE Confidence: 0.915851026111111

01:29:38.250 --> 01:29:39.489 very high specificity,

NOTE Confidence: 0.915851026111111

01:29:39.489 --> 01:29:42.380 which is almost impossible with these tests.

NOTE Confidence: 0.915851026111111

01:29:42.380 --> 01:29:46.650 So all our markers unfortunately have low

NOTE Confidence: 0.915851026111111

01:29:46.650 --> 01:29:48.960 specificity and also suboptimal sensitivity.

NOTE Confidence: 0.915851026111111

01:29:48.960 --> 01:29:52.022 Having to do with great deal with

NOTE Confidence: 0.915851026111111

01:29:52.022 --> 01:29:54.227 low prevalence in our population.

NOTE Confidence: 0.915851026111111

01:29:54.230 --> 01:29:56.148 That is why the two markers that

NOTE Confidence: 0.915851026111111

01:29:56.148 --> 01:29:58.129 we use for this are limited.

NOTE Confidence: 0.915851026111111

01:29:58.130 --> 01:29:58.808 You know,

NOTE Confidence: 0.915851026111111

01:29:58.808 --> 01:29:59.486 seeing 125.

NOTE Confidence: 0.915851026111111

01:29:59.486 --> 01:30:02.023 Is the one you probably hear the

NOTE Confidence: 0.915851026111111

01:30:02.023 --> 01:30:04.591 most about antigen expressed by fetal

NOTE Confidence: 0.915851026111111

01:30:04.591 --> 01:30:06.690 amniotic and coelomic epithelial?

NOTE Confidence: 0.915851026111111

01:30:06.690 --> 01:30:08.493 It's very complicated.

NOTE Confidence: 0.915851026111111

01:30:08.493 --> 01:30:12.852 It's super has has multiple false positives,

NOTE Confidence: 0.915851026111111

01:30:12.852 --> 01:30:14.766 multiple false negatives,

NOTE Confidence: 0.915851026111111

01:30:14.770 --> 01:30:17.275 many different entities like benign

NOTE Confidence: 0.915851026111111

01:30:17.275 --> 01:30:21.328 joint disease or GI disease increased at

NOTE Confidence: 0.915851026111111

01:30:21.328 --> 01:30:24.248 elevated significantly without malignancy.

NOTE Confidence: 0.915851026111111

01:30:24.250 --> 01:30:25.890 Other malignancies elevated and

NOTE Confidence: 0.915851026111111

01:30:25.890 --> 01:30:27.940 unfortunately in early stage like

NOTE Confidence: 0.915851026111111

01:30:27.940 --> 01:30:29.977 stage one disease great majority,

NOTE Confidence: 0.915851026111111

01:30:29.980 --> 01:30:33.566 a percentage of symmetry 5 is within

NOTE Confidence: 0.915851026111111

01:30:33.566 --> 01:30:35.406 normal limits and there's multiple

NOTE Confidence: 0.915851026111111

01:30:35.406 --> 01:30:36.720 different biomarkers that we.

NOTE Confidence: 0.915851026111111

01:30:36.720 --> 01:30:38.538 Looking at there's different ones somewhere.

NOTE Confidence: 0.915851026111111

01:30:38.540 --> 01:30:40.890 Actually good for specific subtypes

NOTE Confidence: 0.915851026111111

01:30:40.890 --> 01:30:41.830 of cancers.

NOTE Confidence: 0.915851026111111

01:30:41.830 --> 01:30:42.457 Others are not,

NOTE Confidence: 0.915851026111111

01:30:42.457 --> 01:30:44.130 and there's a lot of companies right now,

NOTE Confidence: 0.915851026111111

01:30:44.130 --> 01:30:45.775 and there's no research that's

NOTE Confidence: 0.915851026111111

01:30:45.775 --> 01:30:47.805 being done in the industry about

NOTE Confidence: 0.915851026111111

01:30:47.805 --> 01:30:49.743 trying to come up with different

NOTE Confidence: 0.915851026111111

01:30:49.743 --> 01:30:52.017 biomarkers to try to improve early

NOTE Confidence: 0.915851026111111

01:30:52.017 --> 01:30:53.259 detection and sensitivity.

NOTE Confidence: 0.915851026111111

01:30:53.260 --> 01:30:55.252 Specificity of the disease.

NOTE Confidence: 0.915851026111111

01:30:55.252 --> 01:30:57.244 There are other limitations.

NOTE Confidence: 0.807583436

01:30:57.250 --> 01:30:58.580 Ultrasounds also sound like now,

NOTE Confidence: 0.807583436

01:30:58.580 --> 01:30:59.576 so they're good entity.

NOTE Confidence: 0.807583436

01:30:59.576 --> 01:31:01.070 It's something that we really use,

NOTE Confidence: 0.807583436

01:31:01.070 --> 01:31:03.296 and it's really quite good, but again,

NOTE Confidence: 0.807583436

01:31:03.296 --> 01:31:05.312 just because of how the brain cancer

NOTE Confidence: 0.807583436

01:31:05.312 --> 01:31:07.297 is is found and how frequently

NOTE Confidence: 0.807583436

01:31:07.297 --> 01:31:08.937 it's in the Philippine tubes.

NOTE Confidence: 0.807583436

01:31:08.940 --> 01:31:11.236 The pie and specially its primary pet,

NOTE Confidence: 0.807583436

01:31:11.240 --> 01:31:12.998 Neil, and that even the ovaries,

NOTE Confidence: 0.807583436

01:31:13.000 --> 01:31:15.368 the ultrasounds again sadly

NOTE Confidence: 0.807583436

01:31:15.368 --> 01:31:17.736 frequently miss early disease.

NOTE Confidence: 0.807583436

01:31:17.740 --> 01:31:19.590 Miss Stage One, stage 2.

NOTE Confidence: 0.85240450625

01:31:21.630 --> 01:31:24.918 The Ocps is what I talked about before,

NOTE Confidence: 0.85240450625

01:31:24.920 --> 01:31:27.480 and this is the data that we have

NOTE Confidence: 0.85240450625

01:31:27.480 --> 01:31:29.920 that shows great risk reduction in

NOTE Confidence: 0.85240450625

01:31:29.920 --> 01:31:32.500 women who used birth control pills,

NOTE Confidence: 0.85240450625

01:31:32.500 --> 01:31:35.970 especially over cumulative many years.

NOTE Confidence: 0.85240450625

01:31:35.970 --> 01:31:37.916 And then the most definitive one would

NOTE Confidence: 0.85240450625

01:31:37.916 --> 01:31:40.428 be a risk reduction with prophylactic.

NOTE Confidence: 0.85240450625

01:31:40.430 --> 01:31:41.480 You know, I don't actually

NOTE Confidence: 0.85240450625

01:31:41.480 --> 01:31:42.530 ever use the word prophylactic.

NOTE Confidence: 0.85240450625

01:31:42.530 --> 01:31:45.253 I use the word risk reducing over

NOTE Confidence: 0.85240450625

01:31:45.253 --> 01:31:47.619 ectomy in avoidant ovarian cancer.

NOTE Confidence: 0.85240450625

01:31:47.620 --> 01:31:49.324 This is some of the older

NOTE Confidence: 0.85240450625

01:31:49.324 --> 01:31:50.460 literature from our institution,

NOTE Confidence: 0.85240450625

01:31:50.460 --> 01:31:53.325 from the computer Schwartz from here who

NOTE Confidence: 0.85240450625

01:31:53.325 --> 01:31:57.780 published in those days in 94 that if all

NOTE Confidence: 0.85240450625

01:31:57.890 --> 01:32:02.677 women had their ovaries removed at age 50,

NOTE Confidence: 0.85240450625

01:32:02.677 --> 01:32:04.972 if they were having benign

NOTE Confidence: 0.85240450625

01:32:04.972 --> 01:32:06.310 hysterectomy than 12%.

NOTE Confidence: 0.85240450625

01:32:06.310 --> 01:32:08.038 Of women might avoid

NOTE Confidence: 0.85240450625

01:32:08.038 --> 01:32:09.334 developing ovarian cancer.

NOTE Confidence: 0.85240450625

01:32:09.340 --> 01:32:11.335 You know in that days in 94

NOTE Confidence: 0.85240450625

01:32:11.335 --> 01:32:12.929 and probably 10 years ago,

NOTE Confidence: 0.85240450625

01:32:12.930 --> 01:32:14.386 we kind of used to do it routinely.

NOTE Confidence: 0.85240450625

01:32:14.390 --> 01:32:16.763 We used to take out ovaries routinely

NOTE Confidence: 0.85240450625

01:32:16.763 --> 01:32:18.928 in this population of this age women,

NOTE Confidence: 0.85240450625

01:32:18.930 --> 01:32:20.694 but now more studies are available

NOTE Confidence: 0.85240450625

01:32:20.694 --> 01:32:22.649 and there's some good studies that

NOTE Confidence: 0.85240450625

01:32:22.649 --> 01:32:24.459 show that there's possibly possibly

NOTE Confidence: 0.85240450625

01:32:24.459 --> 01:32:26.388 and probably benefit to the ovaries.

NOTE Confidence: 0.85240450625

01:32:26.390 --> 01:32:29.148 All the waves all the way to age 65.

NOTE Confidence: 0.85240450625

01:32:29.148 --> 01:32:31.650 So now we are not as quick to take

NOTE Confidence: 0.85240450625

01:32:31.724 --> 01:32:34.292 out ovaries in age 50 or so forth

NOTE Confidence: 0.85240450625

01:32:34.292 --> 01:32:36.477 because we now have to balance.

NOTE Confidence: 0.85240450625

01:32:36.480 --> 01:32:37.556 The risks and benefits,

NOTE Confidence: 0.85240450625

01:32:37.556 --> 01:32:39.516 and this is again why it's so

NOTE Confidence: 0.85240450625

01:32:39.516 --> 01:32:41.497 important to understand who is at risk,

NOTE Confidence: 0.85240450625

01:32:41.500 --> 01:32:42.760 who has a high risk.

NOTE Confidence: 0.85240450625

01:32:42.760 --> 01:32:45.166 So for those women you certainly

NOTE Confidence: 0.85240450625

01:32:45.166 --> 01:32:47.066 would would want to remove their

NOTE Confidence: 0.85240450625

01:32:47.066 --> 01:32:49.380 ovaries if you could.

NOTE Confidence: 0.85240450625

01:32:49.380 --> 01:32:50.840 And then the prophylactic for

NOTE Confidence: 0.85240450625

01:32:50.840 --> 01:32:52.850 bingo for ectomy in BRCA carriers.

NOTE Confidence: 0.85240450625

01:32:52.850 --> 01:32:53.700 At this and the women,

NOTE Confidence: 0.85240450625

01:32:53.700 --> 01:32:56.010 of course for the highest risk

NOTE Confidence: 0.85240450625

01:32:56.010 --> 01:32:57.165 for this disease,

NOTE Confidence: 0.85240450625

01:32:57.170 --> 01:32:58.630 multiple studies have been done.

NOTE Confidence: 0.85240450625

01:32:58.630 --> 01:33:01.103 This is just one of them that

NOTE Confidence: 0.85240450625

01:33:01.103 --> 01:33:03.515 showed that it significantly

NOTE Confidence: 0.85240450625

01:33:03.515 --> 01:33:05.927 decreased risk ovarian cancer,

NOTE Confidence: 0.85240450625

01:33:05.930 --> 01:33:09.110 and this study this women even

NOTE Confidence: 0.85240450625

01:33:09.110 --> 01:33:11.718 after risk reducing over Ectomy

NOTE Confidence: 0.85240450625

01:33:11.718 --> 01:33:14.116 had a 1.3% peritoneal cancer.

NOTE Confidence: 0.85240450625

01:33:14.116 --> 01:33:16.284 That number is lower.

NOTE Confidence: 0.85240450625

01:33:16.290 --> 01:33:18.145 Now we doing the surgery little bit

NOTE Confidence: 0.85240450625

01:33:18.145 --> 01:33:19.502 more aggressively, a little bit.

NOTE Confidence: 0.85240450625

01:33:19.502 --> 01:33:21.420 Medically we take a little bit more,

NOTE Confidence: 0.85240450625

01:33:21.420 --> 01:33:22.311 but you know,

NOTE Confidence: 0.85240450625

01:33:22.311 --> 01:33:24.093 I always counsel women that they

NOTE Confidence: 0.85240450625

01:33:24.093 --> 01:33:26.042 probably have 1% chance of still

NOTE Confidence: 0.85240450625

01:33:26.042 --> 01:33:27.254 develop development cardinal

NOTE Confidence: 0.85240450625

01:33:27.254 --> 01:33:29.300 cancer even after the offer.

NOTE Confidence: 0.85240450625

01:33:29.300 --> 01:33:29.792 Ectomy,

NOTE Confidence: 0.85240450625

01:33:29.792 --> 01:33:32.488 but truly compared to you know

NOTE Confidence: 0.85240450625

01:33:32.490 --> 01:33:34.146 6% of this population.

NOTE Confidence: 0.85240450625

01:33:34.146 --> 01:33:36.216 It's also very important to

NOTE Confidence: 0.85240450625

01:33:36.216 --> 01:33:39.140 note that when the women remove

NOTE Confidence: 0.85240450625

01:33:39.140 --> 01:33:41.148 their ovaries before menopause,

NOTE Confidence: 0.85240450625

01:33:41.150 --> 01:33:43.650 it also reduces their risk

NOTE Confidence: 0.85240450625

01:33:43.650 --> 01:33:46.150 of breast cancer by 50%.

NOTE Confidence: 0.85240450625

01:33:46.150 --> 01:33:47.950 And it's also important to note

NOTE Confidence: 0.85240450625

01:33:47.950 --> 01:33:49.679 that for these women in this.

NOTE Confidence: 0.85240450625

01:33:49.680 --> 01:33:52.656 Providers who are young when we remove our,

NOTE Confidence: 0.85240450625

01:33:52.660 --> 01:33:53.528 they're always.

NOTE Confidence: 0.85240450625

01:33:53.528 --> 01:33:56.132 Not only is it acceptable or

NOTE Confidence: 0.85240450625

01:33:56.132 --> 01:33:58.918 OK to put them on hormones,

NOTE Confidence: 0.85240450625

01:33:58.920 --> 01:34:00.920 once you remove the always,

NOTE Confidence: 0.85240450625

01:34:00.920 --> 01:34:03.904 it is actually proven and studied and not

NOTE Confidence: 0.85240450625

01:34:03.904 --> 01:34:07.018 only is it imperative for their heart,

NOTE Confidence: 0.85240450625

01:34:07.020 --> 01:34:09.164 their lot and their bones and their mood

NOTE Confidence: 0.85240450625

01:34:09.164 --> 01:34:11.307 and their symptoms and their condition.

NOTE Confidence: 0.85240450625

01:34:11.310 --> 01:34:13.160 But there's been studies that

NOTE Confidence: 0.85240450625

01:34:13.160 --> 01:34:15.490 talked about safety in the breast

NOTE Confidence: 0.85240450625

01:34:15.490 --> 01:34:17.130 cancer population that because

NOTE Confidence: 0.85240450625

01:34:17.130 --> 01:34:19.591 women still have the 50% reduction.

NOTE Confidence: 0.85240450625

01:34:19.591 --> 01:34:22.468 Of the breast cancer just from the

NOTE Confidence: 0.85240450625

01:34:22.468 --> 01:34:24.587 offer ectomy that even the women

NOTE Confidence: 0.85240450625

01:34:24.587 --> 01:34:27.085 who will put a very big dose in

NOTE Confidence: 0.85240450625

01:34:27.085 --> 01:34:29.469 the study of hormones post be a so

NOTE Confidence: 0.90073631

01:34:29.470 --> 01:34:32.190 they did not have an increased risk of

NOTE Confidence: 0.90073631

01:34:32.190 --> 01:34:34.706 breast cancer after five and seven years.

NOTE Confidence: 0.90073631

01:34:34.710 --> 01:34:36.288 So that's actually a day ****

NOTE Confidence: 0.90073631

01:34:36.290 --> 01:34:38.420 point to know because that

NOTE Confidence: 0.90073631

01:34:38.420 --> 01:34:40.832 sometimes is something that's that.

NOTE Confidence: 0.90073631

01:34:40.832 --> 01:34:43.869 That's miss misconstrued it in

NOTE Confidence: 0.90073631

01:34:43.869 --> 01:34:45.014 the patient population that they

NOTE Confidence: 0.90073631

01:34:45.014 --> 01:34:46.550 worry they could not have hormones,

NOTE Confidence: 0.90073631

01:34:46.550 --> 01:34:48.867 and that's not at all the case.

NOTE Confidence: 0.90073631

01:34:48.870 --> 01:34:51.175 So in conclusion, ovarian cancer

NOTE Confidence: 0.90073631

01:34:51.175 --> 01:34:53.480 continues to be very challenging.

NOTE Confidence: 0.90073631

01:34:53.480 --> 01:34:55.505 Ovarian cancer continues to be

NOTE Confidence: 0.90073631

01:34:55.505 --> 01:34:57.530 very challenging because we are

NOTE Confidence: 0.90073631

01:34:57.602 --> 01:34:59.497 failing to diagnose it early.

NOTE Confidence: 0.90073631

01:34:59.500 --> 01:35:03.150 We are, and again not that the lack of Shank,

NOTE Confidence: 0.90073631

01:35:03.150 --> 01:35:05.299 not because we're not aware of it.

NOTE Confidence: 0.90073631

01:35:05.300 --> 01:35:08.359 It's more because we are so limited

NOTE Confidence: 0.90073631

01:35:08.360 --> 01:35:10.688 by the entities that we have

NOTE Confidence: 0.90073631

01:35:10.688 --> 01:35:12.848 for early detection between the

NOTE Confidence: 0.90073631

01:35:12.848 --> 01:35:14.459 ultrasounds and biomarkers,

NOTE Confidence: 0.90073631

01:35:14.460 --> 01:35:16.788 and because of that it is so important

NOTE Confidence: 0.90073631

01:35:16.788 --> 01:35:18.890 to understand who are the women at risk.

NOTE Confidence: 0.90073631

01:35:18.890 --> 01:35:20.230 So that their genetic

NOTE Confidence: 0.90073631

01:35:20.230 --> 01:35:21.570 mutations can be checked,

NOTE Confidence: 0.90073631

01:35:21.570 --> 01:35:24.066 and if they're truly at at increased risk,

NOTE Confidence: 0.90073631

01:35:24.070 --> 01:35:27.248 we can offer them surgical risk reduction.

NOTE Confidence: 0.90073631

01:35:27.250 --> 01:35:29.084 Nowadays we're doing a lot of risk

NOTE Confidence: 0.90073631

01:35:29.084 --> 01:35:30.798 reduction in younger women with just

NOTE Confidence: 0.90073631

01:35:30.798 --> 01:35:32.253 removing their fallopian tubes to

NOTE Confidence: 0.90073631

01:35:32.253 --> 01:35:33.878 support the theory that I mentioned

NOTE Confidence: 0.90073631

01:35:33.878 --> 01:35:35.681 to you before this cancer is coming

NOTE Confidence: 0.90073631

01:35:35.681 --> 01:35:37.236 from the Philippine tubes only.

NOTE Confidence: 0.90073631

01:35:37.240 --> 01:35:38.566 And there's a big trial that's

NOTE Confidence: 0.90073631

01:35:38.566 --> 01:35:39.450 going on right now,

NOTE Confidence: 0.90073631

01:35:39.450 --> 01:35:41.790 just looking at the risk reduction

NOTE Confidence: 0.90073631

01:35:41.790 --> 01:35:43.350 from fallopian tubes alone.

NOTE Confidence: 0.90073631

01:35:43.350 --> 01:35:46.078 But the key again is to understand who's

NOTE Confidence: 0.90073631

01:35:46.078 --> 01:35:48.994 risk and what can be done for this risk.

NOTE Confidence: 0.90073631

01:35:49.000 --> 01:35:51.796 Reduction and similar to the Farrell.

NOTE Confidence: 0.90073631

01:35:51.800 --> 01:35:54.971 I similarly have a practice where we

NOTE Confidence: 0.90073631

01:35:54.971 --> 01:35:57.384 have something called discovery to

NOTE Confidence: 0.90073631

01:35:57.384 --> 01:36:00.128 cure special practice where we take

NOTE Confidence: 0.90073631

01:36:00.128 --> 01:36:04.144 care of women at higher risk both with

NOTE Confidence: 0.90073631

01:36:04.144 --> 01:36:06.688 chemo prevention and surveillance.

NOTE Confidence: 0.90073631

01:36:06.690 --> 01:36:09.390 And then at most extreme times

NOTE Confidence: 0.90073631

01:36:09.390 --> 01:36:12.240 of high risk surgical prevention.

NOTE Confidence: 0.90073631

01:36:12.240 --> 01:36:13.710 Thank you so much for your attention.

NOTE Confidence: 0.850972539090909

01:36:19.450 --> 01:36:21.730 Great, thank you so much to

NOTE Confidence: 0.850972539090909

01:36:21.730 --> 01:36:23.980 all of our speakers tonight.

NOTE Confidence: 0.850972539090909

01:36:23.980 --> 01:36:26.540 There are a few questions in the chat

NOTE Confidence: 0.850972539090909

01:36:26.540 --> 01:36:29.643 but are in the Q&A but if anyone else

NOTE Confidence: 0.850972539090909

01:36:29.643 --> 01:36:32.240 has questions feel free to type them in.

NOTE Confidence: 0.850972539090909

01:36:32.240 --> 01:36:34.361 Doctor Farrell there was a question in

NOTE Confidence: 0.850972539090909

01:36:34.361 --> 01:36:36.958 there for you and I'll sort of paraphrase,

NOTE Confidence: 0.850972539090909

01:36:36.960 --> 01:36:39.445 but if a patient has a mutation

NOTE Confidence: 0.850972539090909

01:36:39.445 --> 01:36:41.461 that this associated with an

NOTE Confidence: 0.850972539090909

01:36:41.461 --> 01:36:43.656 increased risk for pancreatic cancer,

NOTE Confidence: 0.850972539090909

01:36:43.660 --> 01:36:46.159 should they automatically be referred to you,

NOTE Confidence: 0.850972539090909

01:36:46.160 --> 01:36:48.302 or is family history of factor

NOTE Confidence: 0.850972539090909

01:36:48.302 --> 01:36:49.730 in consideration of referral?

NOTE Confidence: 0.915323972380952

01:36:51.320 --> 01:36:53.816 So we do. We do follow the guidelines

NOTE Confidence: 0.915323972380952

01:36:53.816 --> 01:36:56.378 that are out there that are constantly

NOTE Confidence: 0.915323972380952

01:36:56.378 --> 01:36:58.930 being kind of revised and reviewed.

NOTE Confidence: 0.915323972380952

01:36:58.930 --> 01:37:02.549 But essentially it boils down to exactly.

NOTE Confidence: 0.927462713846154

01:37:07.730 --> 01:37:09.434 Essentially boils down to for most

NOTE Confidence: 0.927462713846154

01:37:09.434 --> 01:37:11.339 of the mutations that are out there,

NOTE Confidence: 0.927462713846154

01:37:11.340 --> 01:37:15.043 they do require a family history and

NOTE Confidence: 0.927462713846154

01:37:15.043 --> 01:37:18.658 the exceptions are P16 and put Jaegers.

NOTE Confidence: 0.927462713846154

01:37:18.660 --> 01:37:20.844 Uhm, there have been some discussions

NOTE Confidence: 0.927462713846154

01:37:20.844 --> 01:37:23.349 about opening it up so that we would

NOTE Confidence: 0.927462713846154

01:37:23.349 --> 01:37:25.324 end up surveying individuals with just

NOTE Confidence: 0.927462713846154

01:37:25.324 --> 01:37:27.550 those high risk germline mutations we

NOTE Confidence: 0.927462713846154

01:37:27.606 --> 01:37:29.250 talked about so bracket two probably

NOTE Confidence: 0.927462713846154

01:37:29.250 --> 01:37:31.492 to an ATM that isn't standard of

NOTE Confidence: 0.927462713846154

01:37:31.492 --> 01:37:33.257 care or followed any particular

NOTE Confidence: 0.927462713846154

01:37:33.257 --> 01:37:34.860 guidelines at this point in time.

NOTE Confidence: 0.927462713846154

01:37:34.860 --> 01:37:36.993 So so I would say that you know I

NOTE Confidence: 0.927462713846154

01:37:36.993 --> 01:37:39.118 think you have to realize there are.

NOTE Confidence: 0.927462713846154

01:37:39.120 --> 01:37:40.445 There are some German mutations

NOTE Confidence: 0.927462713846154

01:37:40.445 --> 01:37:42.464 that on their own are enough to

NOTE Confidence: 0.927462713846154

01:37:42.464 --> 01:37:43.744 justify surveillance but other

NOTE Confidence: 0.927462713846154

01:37:43.744 --> 01:37:45.480 ones require the family history.

NOTE Confidence: 0.927462713846154

01:37:45.480 --> 01:37:47.010 Having said all of that,

NOTE Confidence: 0.927462713846154

01:37:47.010 --> 01:37:48.834 there are times when we talk to patients.

NOTE Confidence: 0.927462713846154

01:37:48.840 --> 01:37:51.192 Who have incomplete family histories or

NOTE Confidence: 0.927462713846154

01:37:51.192 --> 01:37:53.850 they're still waiting For more information?

NOTE Confidence: 0.927462713846154

01:37:53.850 --> 01:37:55.320 So for those sorts of individuals,

NOTE Confidence: 0.927462713846154

01:37:55.320 --> 01:37:57.273 I just tell them to come into the clinic.

NOTE Confidence: 0.927462713846154

01:37:57.280 --> 01:37:57.937 We can talk.

NOTE Confidence: 0.927462713846154

01:37:57.937 --> 01:37:59.470 We can tease out other issues of

NOTE Confidence: 0.927462713846154

01:37:59.522 --> 01:38:01.177 pancreatic disease and the family,

NOTE Confidence: 0.927462713846154

01:38:01.180 --> 01:38:03.412 and kind of at least reassure them and

NOTE Confidence: 0.927462713846154

01:38:03.412 --> 01:38:05.334 give them answers to specific concerns

NOTE Confidence: 0.927462713846154

01:38:05.334 --> 01:38:07.039 they have about pancreatic disease.

NOTE Confidence: 0.927462713846154

01:38:07.040 --> 01:38:09.957 But the short answer is knowing

NOTE Confidence: 0.927462713846154

01:38:09.957 --> 01:38:11.545 which germline mutations required

NOTE Confidence: 0.927462713846154

01:38:11.545 --> 01:38:13.530 the family history is important.

NOTE Confidence: 0.848645824285714

01:38:16.100 --> 01:38:18.459 Great thank you and then Doctor Lynch.

NOTE Confidence: 0.848645824285714

01:38:18.460 --> 01:38:20.880 Uhm, there was some conversation.

NOTE Confidence: 0.848645824285714

01:38:20.880 --> 01:38:22.742 I think in the Q&A about whether

NOTE Confidence: 0.848645824285714

01:38:22.742 --> 01:38:24.858 or not to routinely include breast

NOTE Confidence: 0.848645824285714

01:38:24.858 --> 01:38:27.366 ultrasounds or whether or not that

NOTE Confidence: 0.848645824285714

01:38:27.366 --> 01:38:29.464 should really only be reserved for

NOTE Confidence: 0.848645824285714

01:38:29.464 --> 01:38:31.660 women with high risk or dense tissue.

NOTE Confidence: 0.848645824285714

01:38:31.660 --> 01:38:34.710 Would you like to comment on that? Sure.

NOTE Confidence: 0.8374126625

01:38:36.940 --> 01:38:41.180 Am I muted now? Nope, you're fine,

NOTE Confidence: 0.8374126625

01:38:41.180 --> 01:38:43.634 so supplemental screening is meant for

NOTE Confidence: 0.8374126625

01:38:43.634 --> 01:38:46.350 women who have dense breasts where

NOTE Confidence: 0.8374126625

01:38:46.350 --> 01:38:49.368 traditional mammography is not as sensitive.

NOTE Confidence: 0.8374126625

01:38:49.370 --> 01:38:52.286 Supplemental screening can be with whole

NOTE Confidence: 0.8374126625

01:38:52.286 --> 01:38:55.119 breast ultrasound or with breast MRI.

NOTE Confidence: 0.8374126625

01:38:55.120 --> 01:38:56.680 Connecticut is unique in the

NOTE Confidence: 0.8374126625

01:38:56.680 --> 01:38:58.713 country that the first dense breast

NOTE Confidence: 0.8374126625

01:38:58.713 --> 01:39:00.768 legislation was passed in Connecticut,

NOTE Confidence: 0.8374126625

01:39:00.770 --> 01:39:02.204 and immediately Connecticut

NOTE Confidence: 0.8374126625

01:39:02.204 --> 01:39:04.594 radiologists jumped on using whole

NOTE Confidence: 0.8374126625

01:39:04.594 --> 01:39:06.533 breast ultrasound for supplemental

NOTE Confidence: 0.8374126625

01:39:06.533 --> 01:39:08.365 screening for those patients.

NOTE Confidence: 0.8374126625

01:39:08.370 --> 01:39:10.170 And so there's a very.

NOTE Confidence: 0.8374126625

01:39:10.170 --> 01:39:11.910 Deep clinical experience here

NOTE Confidence: 0.8374126625

01:39:11.910 --> 01:39:13.650 with supplemental screening with

NOTE Confidence: 0.8374126625

01:39:13.650 --> 01:39:15.220 whole breast ultrasound.

NOTE Confidence: 0.8374126625

01:39:15.220 --> 01:39:17.698 Other parts of the country have moved

NOTE Confidence: 0.8374126625

01:39:17.698 --> 01:39:19.715 more towards using breast MRI which

NOTE Confidence: 0.8374126625

01:39:19.715 --> 01:39:22.300 is a much more costly and much less

NOTE Confidence: 0.8374126625

01:39:22.300 --> 01:39:24.325 specific modality because they just

NOTE Confidence: 0.8374126625

01:39:24.325 --> 01:39:26.562 don't have the clinical experience

NOTE Confidence: 0.8374126625

01:39:26.562 --> 01:39:28.927 that you have at Connecticut.

NOTE Confidence: 0.8374126625

01:39:28.930 --> 01:39:30.682 And so the whole breast ultrasound

NOTE Confidence: 0.8374126625

01:39:30.682 --> 01:39:32.795 should only be used as a screening

NOTE Confidence: 0.8374126625

01:39:32.795 --> 01:39:34.577 modality for women who have dense

NOTE Confidence: 0.8374126625

01:39:34.577 --> 01:39:36.668 breast tissue or for or who are at

NOTE Confidence: 0.8374126625

01:39:36.668 --> 01:39:38.030 increased risk for breast cancer.

NOTE Confidence: 0.874942472

01:39:41.090 --> 01:39:43.160 Alright, thank you so much.

NOTE Confidence: 0.874942472

01:39:43.160 --> 01:39:44.745 It doesn't look like we've

NOTE Confidence: 0.874942472

01:39:44.745 --> 01:39:46.013 received any more questions,

NOTE Confidence: 0.874942472

01:39:46.020 --> 01:39:47.721 so I think it will end for

NOTE Confidence: 0.874942472

01:39:47.721 --> 01:39:49.089 the night since it's late.

NOTE Confidence: 0.874942472

01:39:49.090 --> 01:39:50.602 Thank you all again for speaking

NOTE Confidence: 0.874942472

01:39:50.602 --> 01:39:52.690 with us tonight. Thank you.

NOTE Confidence: 0.818875522

01:39:53.640 --> 01:39:56.000 Thanks, Claire, thank you all. Thank you.