

WEBVTT

00:00:00.000 --> 00:00:02.020 Support for Yale Cancer Answers

NOTE Confidence: 0.8594627

00:00:02.020 --> 00:00:03.636 comes from AstraZeneca,

NOTE Confidence: 0.8594627

00:00:03.640 --> 00:00:06.461 the beyond pink campaign aims to empower

NOTE Confidence: 0.8594627

00:00:06.461 --> 00:00:08.418 metastatic breast cancer patients and

NOTE Confidence: 0.8594627

00:00:08.418 --> 00:00:11.146 their loved ones to learn more about their

NOTE Confidence: 0.8594627

00:00:11.212 --> 00:00:13.567 diagnosis and make informed decisions.

NOTE Confidence: 0.8594627

00:00:13.570 --> 00:00:18.274 Learn more at lifebeyondpink.com.

NOTE Confidence: 0.8594627

00:00:18.280 --> 00:00:20.065 Welcome to Yale Cancer Answers

NOTE Confidence: 0.8594627

00:00:20.065 --> 00:00:21.136 with your host

NOTE Confidence: 0.8594627

00:00:21.140 --> 00:00:22.930 Doctor Anees Chagpar.

NOTE Confidence: 0.8594627

00:00:22.930 --> 00:00:24.885 Yale Cancer Answers features the

NOTE Confidence: 0.8594627

00:00:24.885 --> 00:00:27.291 latest information on cancer care by

NOTE Confidence: 0.8594627

00:00:27.291 --> 00:00:28.831 welcoming oncologists and specialists

NOTE Confidence: 0.8594627

00:00:28.831 --> 00:00:31.674 who are on the forefront of the battle

NOTE Confidence: 0.8594627

00:00:31.674 --> 00:00:33.662 to fight cancer. This week, in honor

NOTE Confidence: 0.8594627

00:00:33.670 --> 00:00:35.460 of Breast Cancer Awareness Month
NOTE Confidence: 0.8594627

00:00:35.460 --> 00:00:37.250 it's a conversation about breast
NOTE Confidence: 0.8594627

00:00:37.250 --> 00:00:39.040 cancer with Doctor Lajos Puzstai.
NOTE Confidence: 0.8594627

00:00:39.040 --> 00:00:40.915 Doctor Puzstai is a professor
NOTE Confidence: 0.8594627

00:00:40.915 --> 00:00:42.790 of Medicine in medical oncology
NOTE Confidence: 0.8594627

00:00:42.860 --> 00:00:44.768 at the Yale School of Medicine,
NOTE Confidence: 0.8594627

00:00:44.770 --> 00:00:46.918 where doctor Chagpar is a
NOTE Confidence: 0.8594627

00:00:46.918 --> 00:00:48.350 professor of surgical oncology.
NOTE Confidence: 0.87699646

00:00:49.350 --> 00:00:51.261 Maybe we can
NOTE Confidence: 0.87699646

00:00:51.261 --> 00:00:53.889 start off by talking a little bit
NOTE Confidence: 0.87699646

00:00:53.889 --> 00:00:55.629 about breast cancer yesterday,
NOTE Confidence: 0.87699646

00:00:55.630 --> 00:00:56.680 today and tomorrow.
NOTE Confidence: 0.87699646

00:00:56.680 --> 00:00:58.346 Many of us,
NOTE Confidence: 0.87699646

00:00:58.346 --> 00:01:00.278 especially now in October are
NOTE Confidence: 0.87699646

00:01:00.278 --> 00:01:01.908 talking about breast cancer.
NOTE Confidence: 0.87699646

00:01:01.910 --> 00:01:04.010 It's certainly a very common malignancy,

NOTE Confidence: 0.87699646

00:01:04.010 --> 00:01:06.460 but tell us a little bit about

NOTE Confidence: 0.87699646

00:01:06.460 --> 00:01:08.548 how common it is and

NOTE Confidence: 0.87699646

00:01:08.550 --> 00:01:09.938 how deadly it is.

NOTE Confidence: 0.86687833

00:01:11.590 --> 00:01:14.103 I think it's most appropriate to

NOTE Confidence: 0.86687833

00:01:14.103 --> 00:01:17.161 start with the good news, the good

NOTE Confidence: 0.86687833

00:01:17.161 --> 00:01:19.490 news for breast cancer patients is

NOTE Confidence: 0.86687833

00:01:19.490 --> 00:01:21.602 that the survival rates have improved

NOTE Confidence: 0.86687833

00:01:21.602 --> 00:01:24.868 by 40 to 50% over the past 20 years.

NOTE Confidence: 0.86687833

00:01:24.870 --> 00:01:27.090 There are 50% more patients that survive

NOTE Confidence: 0.86687833

00:01:27.090 --> 00:01:29.299 breast cancer than 20 years ago.

NOTE Confidence: 0.86687833

00:01:29.300 --> 00:01:31.140 And about 85% of

NOTE Confidence: 0.86687833

00:01:31.140 --> 00:01:32.612 newly diagnosed breast cancer

NOTE Confidence: 0.86687833

00:01:32.620 --> 00:01:35.210 patients will never die from their disease,

NOTE Confidence: 0.86687833

00:01:35.210 --> 00:01:37.786 which we could paraphrase as being cured.

NOTE Confidence: 0.86687833

00:01:37.790 --> 00:01:39.998 The probability of survival of course,

NOTE Confidence: 0.86687833

00:01:40.000 --> 00:01:41.233 vary by stage.
NOTE Confidence: 0.86687833

00:01:41.233 --> 00:01:43.699 And in stage one breast cancer,
NOTE Confidence: 0.86687833

00:01:43.700 --> 00:01:45.770 which is the most frequently diagnosed
NOTE Confidence: 0.86687833

00:01:45.770 --> 00:01:48.853 stage of breast cancer due to the broadly
NOTE Confidence: 0.86687833

00:01:48.853 --> 00:01:50.493 availability of mammographic screening,
NOTE Confidence: 0.86687833

00:01:50.500 --> 00:01:52.508 the survival rates are
NOTE Confidence: 0.86687833

00:01:52.508 --> 00:01:55.018 even higher and above 90%.
NOTE Confidence: 0.86687833

00:01:55.020 --> 00:01:56.910 In Stage 4, disease
NOTE Confidence: 0.86687833

00:01:56.910 --> 00:01:58.422 survival still remains elusive,
NOTE Confidence: 0.86687833

00:01:58.430 --> 00:02:00.776 but patients live many years longer
NOTE Confidence: 0.86687833

00:02:00.776 --> 00:02:03.360 than they used to 20 years ago.
NOTE Confidence: 0.86687833

00:02:03.360 --> 00:02:04.120 Yeah, it's
NOTE Confidence: 0.88930136

00:02:04.120 --> 00:02:05.188 certainly good news,
NOTE Confidence: 0.88930136

00:02:05.188 --> 00:02:08.548 and I think that women now more and
NOTE Confidence: 0.88930136

00:02:08.548 --> 00:02:11.320 more are beginning to realize that
NOTE Confidence: 0.88930136

00:02:11.320 --> 00:02:12.832 just getting breast cancer

NOTE Confidence: 0.88930136
00:02:12.832 --> 00:02:14.722 is not a death sentence,
NOTE Confidence: 0.88930136
00:02:14.730 --> 00:02:16.900 but I want to take one step
NOTE Confidence: 0.88930136
00:02:16.900 --> 00:02:19.729 back and talk a little bit about
NOTE Confidence: 0.88930136
00:02:19.729 --> 00:02:21.545 something that you mentioned,
NOTE Confidence: 0.88930136
00:02:21.550 --> 00:02:23.992 which is how the survival rates
NOTE Confidence: 0.88930136
00:02:23.992 --> 00:02:26.430 have improved and one of the
NOTE Confidence: 0.88930136
00:02:26.430 --> 00:02:28.620 things that has helped in that
NOTE Confidence: 0.88930136
00:02:28.620 --> 00:02:31.002 is screening and in October
NOTE Confidence: 0.88930136
00:02:31.002 --> 00:02:33.122 we're all talking about, get
NOTE Confidence: 0.88930136
00:02:33.122 --> 00:02:34.938 your mammogram, get screened.
NOTE Confidence: 0.88930136
00:02:34.940 --> 00:02:38.216 Many women
NOTE Confidence: 0.88930136
00:02:38.216 --> 00:02:40.783 they'll come up to me
NOTE Confidence: 0.88930136
00:02:40.783 --> 00:02:43.275 and say I get my mammogram every
NOTE Confidence: 0.88930136
00:02:43.362 --> 00:02:45.876 year and I got breast cancer.
NOTE Confidence: 0.88930136
00:02:45.880 --> 00:02:48.232 Can you talk a little bit about
NOTE Confidence: 0.88930136

00:02:48.232 --> 00:02:49.837 the difference between screening
NOTE Confidence: 0.88930136

00:02:49.837 --> 00:02:51.969 or secondary prevention versus
NOTE Confidence: 0.88930136

00:02:51.969 --> 00:02:53.035 primary prevention?
NOTE Confidence: 0.8559525

00:02:54.830 --> 00:02:57.483 Yeah, so of course it's a shock
NOTE Confidence: 0.8559525

00:02:57.483 --> 00:02:59.969 for any individual to be diagnosed
NOTE Confidence: 0.8559525

00:02:59.969 --> 00:03:01.933 with cancer, but among Kansas,
NOTE Confidence: 0.8559525

00:03:01.933 --> 00:03:04.159 Briskin series is actually one of
NOTE Confidence: 0.8559525

00:03:04.159 --> 00:03:06.737 the most highly treatable and curable
NOTE Confidence: 0.8559525

00:03:06.737 --> 00:03:09.320 diseases and then a mammogram picks
NOTE Confidence: 0.8559525

00:03:09.320 --> 00:03:12.015 up cancer is actually a success of
NOTE Confidence: 0.8559525

00:03:12.015 --> 00:03:13.566 the mammographic screening story.
NOTE Confidence: 0.8559525

00:03:13.566 --> 00:03:15.506 So mammographic imaging is more
NOTE Confidence: 0.8559525

00:03:15.506 --> 00:03:17.942 sensitive than any self examination or
NOTE Confidence: 0.8559525

00:03:17.942 --> 00:03:19.967 physical examination by a physician,
NOTE Confidence: 0.8559525

00:03:19.970 --> 00:03:22.623 and the goal is to really find
NOTE Confidence: 0.8559525

00:03:22.623 --> 00:03:24.839 cancer as early as possible.

NOTE Confidence: 0.8559525

00:03:24.840 --> 00:03:26.740 Because the cure rates are

NOTE Confidence: 0.8559525

00:03:26.740 --> 00:03:28.640 directly proportional to the size

NOTE Confidence: 0.8559525

00:03:28.710 --> 00:03:30.270 and stage of the disease.

NOTE Confidence: 0.8704512

00:03:31.520 --> 00:03:34.301 And I think that this is a big

NOTE Confidence: 0.8704512

00:03:34.301 --> 00:03:36.369 difference that we see here in the

NOTE Confidence: 0.8704512

00:03:36.369 --> 00:03:38.930 Western World as as opposed to the

NOTE Confidence: 0.8704512

00:03:38.930 --> 00:03:40.742 developing world where mammographic

NOTE Confidence: 0.8704512

00:03:40.742 --> 00:03:42.814 screening isn't as widespread and

NOTE Confidence: 0.8704512

00:03:42.814 --> 00:03:44.926 many of those patients present late.

NOTE Confidence: 0.8704512

00:03:44.930 --> 00:03:47.450 But I want to pick up on something

NOTE Confidence: 0.8704512

00:03:47.450 --> 00:03:49.519 else that you just mentioned,

NOTE Confidence: 0.8704512

00:03:49.520 --> 00:03:51.994 which is to say the staging now

NOTE Confidence: 0.8704512

00:03:51.994 --> 00:03:53.764 Historically we always used to

NOTE Confidence: 0.8704512

00:03:53.764 --> 00:03:55.879 think about stage as being TNM.

NOTE Confidence: 0.8704512

00:03:55.880 --> 00:03:57.640 How big is the tumor?

NOTE Confidence: 0.8704512

00:03:57.640 --> 00:04:00.104 Has it gone to the lymph nodes?
NOTE Confidence: 0.8704512

00:04:00.110 --> 00:04:01.190 Has it spread
NOTE Confidence: 0.8704512

00:04:01.190 --> 00:04:02.630 outside of the breast,
NOTE Confidence: 0.8704512

00:04:02.630 --> 00:04:05.926 in the lymph node area to distant sites?
NOTE Confidence: 0.8704512

00:04:05.930 --> 00:04:06.842 Recently, however,
NOTE Confidence: 0.8704512

00:04:06.842 --> 00:04:08.666 there has been incorporated
NOTE Confidence: 0.8704512

00:04:08.666 --> 00:04:10.490 into the staging system,
NOTE Confidence: 0.8704512

00:04:10.490 --> 00:04:13.675 at least in the prognostic staging system,
NOTE Confidence: 0.8704512

00:04:13.680 --> 00:04:16.865 this concept of grade and receptor status.
NOTE Confidence: 0.8704512

00:04:16.870 --> 00:04:19.950 Can you talk a little bit about
NOTE Confidence: 0.8704512

00:04:19.950 --> 00:04:22.751 what those phenomena are and how
NOTE Confidence: 0.8704512

00:04:22.751 --> 00:04:25.076 they affect prognosis and stage?
NOTE Confidence: 0.85202396

00:04:26.400 --> 00:04:28.615 Yes, so staging this historically
NOTE Confidence: 0.85202396

00:04:28.615 --> 00:04:31.968 being a composite with the size of the
NOTE Confidence: 0.85202396

00:04:31.968 --> 00:04:34.446 cancer and the number of lymph nodes
NOTE Confidence: 0.85202396

00:04:34.525 --> 00:04:37.105 or being influence involved at all.

NOTE Confidence: 0.85202396

00:04:37.110 --> 00:04:39.170 Defining the classical anatomical stage.

NOTE Confidence: 0.85202396

00:04:39.170 --> 00:04:41.956 So we learned that there are many

NOTE Confidence: 0.85202396

00:04:41.956 --> 00:04:43.968 additional features beyond just the

NOTE Confidence: 0.85202396

00:04:43.968 --> 00:04:46.572 size of the tumor that determined the

NOTE Confidence: 0.85202396

00:04:46.572 --> 00:04:48.815 prognosis and increasingly the sensitivity

NOTE Confidence: 0.85202396

00:04:48.815 --> 00:04:51.521 of the cancer to various therapies.

NOTE Confidence: 0.85202396

00:04:51.530 --> 00:04:53.635 And these molecular variables or

NOTE Confidence: 0.85202396

00:04:53.635 --> 00:04:55.740 markers can really influence the

NOTE Confidence: 0.85202396

00:04:55.810 --> 00:04:58.080 overall prognosis of an individual.

NOTE Confidence: 0.85202396

00:04:58.080 --> 00:05:01.552 So staging is now really find by additional

NOTE Confidence: 0.85202396

00:05:01.552 --> 00:05:03.670 molecular variables in breast cancer,

NOTE Confidence: 0.85202396

00:05:03.670 --> 00:05:05.820 particularly grade and there stretching

NOTE Confidence: 0.85202396

00:05:05.820 --> 00:05:07.970 receptor status below grade Kansas.

NOTE Confidence: 0.85202396

00:05:07.970 --> 00:05:10.120 Even keeping the size the

NOTE Confidence: 0.85202396

00:05:10.120 --> 00:05:12.270 same do better than then,

NOTE Confidence: 0.85202396

00:05:12.270 --> 00:05:14.388 then higher grade terms and grade
NOTE Confidence: 0.85202396

00:05:14.388 --> 00:05:17.021 is A is a pathological variable
NOTE Confidence: 0.85202396

00:05:17.021 --> 00:05:20.423 that that sort of approximates how
NOTE Confidence: 0.85202396

00:05:20.423 --> 00:05:23.119 abnormal the cancer cells look.
NOTE Confidence: 0.85202396

00:05:23.120 --> 00:05:25.759 Do you struction Receptor Studies is also
NOTE Confidence: 0.85202396

00:05:25.759 --> 00:05:28.262 very important because we have highly
NOTE Confidence: 0.85202396

00:05:28.262 --> 00:05:30.006 effective estrogen targeted therapies
NOTE Confidence: 0.85202396

00:05:30.006 --> 00:05:32.440 that improve survival in these patients.
NOTE Confidence: 0.85202396

00:05:32.440 --> 00:05:34.870 So even with a longer term,
NOTE Confidence: 0.85202396

00:05:34.870 --> 00:05:36.940 their outcome actually is similar
NOTE Confidence: 0.85202396

00:05:36.940 --> 00:05:39.320 to what is smaller to me.
NOTE Confidence: 0.85202396

00:05:39.320 --> 00:05:41.903 Used to be many years ago which
NOTE Confidence: 0.85202396

00:05:41.903 --> 00:05:44.988 speaks to the efficiency of the novel
NOTE Confidence: 0.84262973

00:05:44.990 --> 00:05:47.846 therapies. Yeah, and just when we think
NOTE Confidence: 0.84262973

00:05:47.846 --> 00:05:50.659 about the landscape of all breast cancers,
NOTE Confidence: 0.84262973

00:05:50.660 --> 00:05:52.715 what proportion of breast cancers

NOTE Confidence: 0.84262973

00:05:52.715 --> 00:05:54.530 are hormone receptor? Positive.

NOTE Confidence: 0.8447615

00:05:55.760 --> 00:05:58.376 About 70% of all newly diagnosed

NOTE Confidence: 0.8447615

00:05:58.376 --> 00:06:00.120 breast cancer hormone receptor

NOTE Confidence: 0.8447615

00:06:00.192 --> 00:06:02.268 or estrogen receptor positive.

NOTE Confidence: 0.8447615

00:06:02.270 --> 00:06:04.605 This proportion does change the

NOTE Confidence: 0.8447615

00:06:04.605 --> 00:06:07.882 overage an it's even larger in the

NOTE Confidence: 0.8447615

00:06:07.882 --> 00:06:10.450 population who are above 6065 and

NOTE Confidence: 0.8447615

00:06:10.450 --> 00:06:12.969 somewhat less in younger patients.

NOTE Confidence: 0.8447615

00:06:12.970 --> 00:06:14.530 So in other words,

NOTE Confidence: 0.8447615

00:06:14.530 --> 00:06:16.870 patients in their 50s and 40s

NOTE Confidence: 0.8447615

00:06:16.952 --> 00:06:19.692 have a higher proportion of

NOTE Confidence: 0.8447615

00:06:19.692 --> 00:06:21.336 estrogen receptor negative

NOTE Confidence: 0.8447615

00:06:21.340 --> 00:06:23.890 breast cancers and the Epidemiology

NOTE Confidence: 0.8447615

00:06:23.890 --> 00:06:26.950 of breast cancer is such that.

NOTE Confidence: 0.8447615

00:06:26.950 --> 00:06:29.320 Age actually is a risk factor

NOTE Confidence: 0.8447615

00:06:29.320 --> 00:06:30.900 for developing breast cancer,
NOTE Confidence: 0.8447615

00:06:30.900 --> 00:06:33.156 so what's the average age at
NOTE Confidence: 0.8447615

00:06:33.156 --> 00:06:35.250 which women get breast cancer?
NOTE Confidence: 0.8720349

00:06:36.380 --> 00:06:38.834 So the average age is somewhere
NOTE Confidence: 0.8720349

00:06:38.834 --> 00:06:40.780 around between 60 and 65,
NOTE Confidence: 0.8720349

00:06:40.780 --> 00:06:43.115 so the majority of breast
NOTE Confidence: 0.8720349

00:06:43.115 --> 00:06:45.450 cancer patients are above 60.
NOTE Confidence: 0.8720349

00:06:45.450 --> 00:06:47.623 Which is plain to see risk
NOTE Confidence: 0.8720349

00:06:47.623 --> 00:06:49.729 insulin in in very young woman
NOTE Confidence: 0.8720349

00:06:49.729 --> 00:06:51.807 even their their early 30s.
NOTE Confidence: 0.8757816

00:06:51.810 --> 00:06:54.794 Yeah, so I think 2 two important points
NOTE Confidence: 0.8757816

00:06:54.794 --> 00:06:57.977 there. One is that breast cancer is a
NOTE Confidence: 0.8757816

00:06:57.977 --> 00:07:00.582 phenomena of aging and so women need
NOTE Confidence: 0.8757816

00:07:00.582 --> 00:07:03.778 to be aware of that as a risk factor.
NOTE Confidence: 0.8757816

00:07:03.780 --> 00:07:05.650 So many women asked me,
NOTE Confidence: 0.8757816

00:07:05.650 --> 00:07:08.634 you know why did I get breast cancer?

NOTE Confidence: 0.8757816

00:07:08.640 --> 00:07:11.160 I eat right? I exercise and you

NOTE Confidence: 0.8757816

00:07:11.160 --> 00:07:14.086 know the two main risk factors are

NOTE Confidence: 0.8757816

00:07:14.086 --> 00:07:16.732 being a woman and getting older.

NOTE Confidence: 0.8757816

00:07:16.740 --> 00:07:18.380 But as you say, lios,

NOTE Confidence: 0.8757816

00:07:18.380 --> 00:07:20.534 you know the other thing that's

NOTE Confidence: 0.8757816

00:07:20.534 --> 00:07:22.356 really important is that breast

NOTE Confidence: 0.8757816

00:07:22.356 --> 00:07:24.596 cancer can occur in young women and

NOTE Confidence: 0.8757816

00:07:24.596 --> 00:07:26.909 an they need to be aware of that.

NOTE Confidence: 0.8757816

00:07:26.910 --> 00:07:28.849 Let's let's go there for a minute

NOTE Confidence: 0.8757816

00:07:28.849 --> 00:07:30.578 and talk about younger women

NOTE Confidence: 0.8757816

00:07:30.578 --> 00:07:31.826 getting breast cancer,

NOTE Confidence: 0.8757816

00:07:31.830 --> 00:07:33.138 because certainly that's a

NOTE Confidence: 0.8757816

00:07:33.138 --> 00:07:34.773 shocking thing for many women.

NOTE Confidence: 0.8757816

00:07:34.780 --> 00:07:36.726 Some women are told that they are

NOTE Confidence: 0.8757816

00:07:36.726 --> 00:07:38.855 too young to get breast cancer and

NOTE Confidence: 0.8757816

00:07:38.855 --> 00:07:41.192 yet breast cancer seems to be more
NOTE Confidence: 0.8757816

00:07:41.192 --> 00:07:43.307 aggressive in the younger population.
NOTE Confidence: 0.8757816

00:07:43.310 --> 00:07:43.638 Key.
NOTE Confidence: 0.8757816

00:07:43.638 --> 00:07:46.590 Can you kinda talk a little bit about that?
NOTE Confidence: 0.86608607

00:07:48.070 --> 00:07:51.010 Yeah, so the risk factors for breast
NOTE Confidence: 0.86608607

00:07:51.010 --> 00:07:53.517 cancer also depend and vary by
NOTE Confidence: 0.86608607

00:07:53.517 --> 00:07:55.857 the molecular type of the disease,
NOTE Confidence: 0.86608607

00:07:55.860 --> 00:07:58.968 so the risk factors that increase the
NOTE Confidence: 0.86608607

00:07:58.968 --> 00:08:01.746 probability that someone would develop a
NOTE Confidence: 0.86608607

00:08:01.746 --> 00:08:04.494 nurse region positive breast cancer does
NOTE Confidence: 0.86608607

00:08:04.494 --> 00:08:07.387 include reproductive variables such as a.
NOTE Confidence: 0.86608607

00:08:07.390 --> 00:08:09.412 Having no children or having children
NOTE Confidence: 0.86608607

00:08:09.412 --> 00:08:11.930 late there is for estrogen receptor.
NOTE Confidence: 0.86608607

00:08:11.930 --> 00:08:13.820 Negative disease is very seem.
NOTE Confidence: 0.86608607

00:08:13.820 --> 00:08:17.696 Factors actually seemed to be protective.
NOTE Confidence: 0.86608607

00:08:17.700 --> 00:08:19.800 Another important risk factor is

NOTE Confidence: 0.86608607
00:08:19.800 --> 00:08:21.388 stretching exposure, and again,
NOTE Confidence: 0.86608607
00:08:21.388 --> 00:08:24.006 this is a risk factor for developing
NOTE Confidence: 0.86608607
00:08:24.006 --> 00:08:25.680 Australian receptive positive.
NOTE Confidence: 0.86608607
00:08:25.680 --> 00:08:28.392 This is and this has been clearly seen
NOTE Confidence: 0.86608607
00:08:28.392 --> 00:08:31.291 in the past when estrogen replacement
NOTE Confidence: 0.86608607
00:08:31.291 --> 00:08:34.501 therapy to treat for menopausal symptoms
NOTE Confidence: 0.86608607
00:08:34.583 --> 00:08:37.535 and with the hope that it would improve
NOTE Confidence: 0.86608607
00:08:37.535 --> 00:08:40.380 or reduce the risk of heart disease,
NOTE Confidence: 0.86608607
00:08:40.380 --> 00:08:42.116 has been widely followed.
NOTE Confidence: 0.86608607
00:08:42.116 --> 00:08:44.720 We saw an increase in estrogen
NOTE Confidence: 0.86608607
00:08:44.801 --> 00:08:47.357 receptor positive breast cancers.
NOTE Confidence: 0.86608607
00:08:47.360 --> 00:08:49.432 Other somewhat less important,
NOTE Confidence: 0.86608607
00:08:49.432 --> 00:08:52.022 but still significant risk factors
NOTE Confidence: 0.86608607
00:08:52.022 --> 00:08:54.608 include obesity or being overweight,
NOTE Confidence: 0.86608607
00:08:54.610 --> 00:08:57.200 especially if someone is postmenopausal,
NOTE Confidence: 0.86608607

00:08:57.200 --> 00:08:58.298 small amounts,
NOTE Confidence: 0.86608607

00:08:58.298 --> 00:09:01.592 but regular alcohol intake also increases
NOTE Confidence: 0.86608607

00:09:01.592 --> 00:09:05.489 the risk for breast cancer of both types.
NOTE Confidence: 0.8828672

00:09:06.870 --> 00:09:09.264 And I think the other
NOTE Confidence: 0.8828672

00:09:09.264 --> 00:09:10.860 risk factor,
NOTE Confidence: 0.8828672

00:09:10.860 --> 00:09:12.452 particularly for younger women,
NOTE Confidence: 0.8828672

00:09:12.452 --> 00:09:13.646 is genetics.
NOTE Confidence: 0.8828672

00:09:13.650 --> 00:09:15.680 A little bit about knowing
NOTE Confidence: 0.8828672

00:09:15.680 --> 00:09:17.710 your family history and some
NOTE Confidence: 0.8828672

00:09:17.788 --> 00:09:19.708 of the genetic mutations that
NOTE Confidence: 0.8828672

00:09:19.708 --> 00:09:21.628 can put women at risk,
NOTE Confidence: 0.8828672

00:09:21.630 --> 00:09:23.630 especially at a younger age.
NOTE Confidence: 0.809348

00:09:24.990 --> 00:09:28.296 So the other important
NOTE Confidence: 0.809348

00:09:28.296 --> 00:09:31.103 risk factor is indeed genetics
00:09:34.110 --> 00:09:36.095 and has someone inherited from
NOTE Confidence: 0.809348

00:09:36.095 --> 00:09:38.080 their parents and particularly what
NOTE Confidence: 0.809348

00:09:38.146 --> 00:09:40.211 sort of variance in these genes are
NOTE Confidence: 0.809348

00:09:40.211 --> 00:09:42.162 present in an individual through
NOTE Confidence: 0.809348

00:09:42.162 --> 00:09:44.170 through their parental lineage?
NOTE Confidence: 0.809348

00:09:44.170 --> 00:09:46.660 There are genes which are associated
NOTE Confidence: 0.809348

00:09:46.660 --> 00:09:49.675 with a very high risk of lifetime
NOTE Confidence: 0.809348

00:09:49.675 --> 00:09:52.213 breast cancer and the most well
NOTE Confidence: 0.809348

00:09:52.213 --> 00:09:54.551 known is of course
NOTE Confidence: 0.809348

00:09:54.551 --> 00:09:56.854 BRCA1 and BRCA2 genes, which,
NOTE Confidence: 0.809348

00:09:56.854 --> 00:10:00.110 if they carry a mutation
NOTE Confidence: 0.809348

00:10:00.110 --> 00:10:02.820 that someone has inherited
NOTE Confidence: 0.809348

00:10:02.820 --> 00:10:05.926 the lifetime risk can be
NOTE Confidence: 0.809348

00:10:05.926 --> 00:10:08.604 as high as 50 to 80% to develop
NOTE Confidence: 0.809348

00:10:08.604 --> 00:10:10.839 breast cancer and other cancers
NOTE Confidence: 0.809348

00:10:10.840 --> 00:10:12.196 unfortunately as well,
NOTE Confidence: 0.809348

00:10:12.196 --> 00:10:15.360 such as ovarian cancer or male patients
NOTE Confidence: 0.809348

00:10:15.436 --> 00:10:17.986 remain at risk for prostate cancer.

NOTE Confidence: 0.809348
00:10:17.990 --> 00:10:18.884 Pancreatic cancer.
NOTE Confidence: 0.809348
00:10:18.884 --> 00:10:21.119 There are other genetic causes
NOTE Confidence: 0.809348
00:10:21.119 --> 00:10:22.460 of breast cancer
NOTE Confidence: 0.809348
00:10:22.460 --> 00:10:25.884 that are much rarer than the BRCA gene
NOTE Confidence: 0.809348
00:10:25.884 --> 00:10:29.166 mutations and these include genes like P53
NOTE Confidence: 0.809348
00:10:29.170 --> 00:10:32.530 Check one, ATM mutations.
NOTE Confidence: 0.809348
00:10:32.530 --> 00:10:33.784 But even combined,
NOTE Confidence: 0.809348
00:10:36.292 --> 00:10:38.141 these only account for probably
NOTE Confidence: 0.809348
00:10:38.141 --> 00:10:40.800 about 10% of early onset breast cancer.
NOTE Confidence: 0.809348
00:10:40.800 --> 00:10:42.834 The remaining 90% of patients
NOTE Confidence: 0.809348
00:10:42.834 --> 00:10:45.063 with an early onset breast cancer
NOTE Confidence: 0.809348
00:10:45.063 --> 00:10:47.487 carries some other type of abnormality
NOTE Confidence: 0.809348
00:10:47.487 --> 00:10:49.470 that they likely inherited.
NOTE Confidence: 0.809348
00:10:49.470 --> 00:10:52.614 But we don't really know what they are.
NOTE Confidence: 0.809348
00:10:52.620 --> 00:10:55.378 They very likely are not a single gene,
NOTE Confidence: 0.809348

00:10:55.380 --> 00:10:56.956 but multiple genes together
NOTE Confidence: 0.809348

00:10:56.956 --> 00:10:58.926 that together increase the risk.
NOTE Confidence: 0.809348

00:10:58.930 --> 00:11:01.310 But the good news is that death
NOTE Confidence: 0.809348

00:11:01.310 --> 00:11:03.660 risk is relatively small.
NOTE Confidence: 0.809348

00:11:03.660 --> 00:11:04.839 It's nowhere close
NOTE Confidence: 0.809348

00:11:04.839 --> 00:11:07.552 to these 50 to 80% risk of
NOTE Confidence: 0.809348

00:11:07.552 --> 00:11:09.036 developing cancer during their lifetime,
NOTE Confidence: 0.809348

00:11:09.040 --> 00:11:11.091 so a strong family history in the
NOTE Confidence: 0.809348

00:11:11.091 --> 00:11:12.957 absence of this detectable germline
NOTE Confidence: 0.809348

00:11:12.957 --> 00:11:15.735 mutations still carries an increased risk.
NOTE Confidence: 0.809348

00:11:15.740 --> 00:11:18.337 But that risk is more like 20-30%
NOTE Confidence: 0.809348

00:11:18.340 --> 00:11:20.620 above the average risk that
NOTE Confidence: 0.809348

00:11:20.620 --> 00:11:22.554 would affect an individual who
NOTE Confidence: 0.809348

00:11:22.554 --> 00:11:23.918 has no family history.
00:11:24.292 --> 00:11:25.780 And the other interesting
NOTE Confidence: 0.8740836

00:11:25.780 --> 00:11:27.140 thing and something
NOTE Confidence: 0.8740836

00:11:27.140 --> 00:11:30.126 I think that many of our listeners may
NOTE Confidence: 0.8740836

00:11:30.126 --> 00:11:32.724 not know, and many patients
NOTE Confidence: 0.8740836

00:11:32.724 --> 00:11:35.439 have told me is surprising to them,
NOTE Confidence: 0.8740836

00:11:35.440 --> 00:11:37.463 is that the vast majority of women
NOTE Confidence: 0.8740836

00:11:37.463 --> 00:11:39.139 who get breast cancer actually
NOTE Confidence: 0.8740836

00:11:39.139 --> 00:11:40.994 don't have a family history?
NOTE Confidence: 0.8740836

00:11:41.000 --> 00:11:43.934 You want to talk a little bit about that.
NOTE Confidence: 0.8379827

00:11:45.750 --> 00:11:48.090 Yeah, that's correct and it
NOTE Confidence: 0.8379827

00:11:48.090 --> 00:11:50.952 relates to aging being the
NOTE Confidence: 0.8379827

00:11:50.952 --> 00:11:52.982 most significant risk
NOTE Confidence: 0.8379827

00:11:52.982 --> 00:11:55.248 factor for breast cancer.
NOTE Confidence: 0.8379827

00:11:55.250 --> 00:11:57.518 Also for many other cancers and
NOTE Confidence: 0.8379827

00:11:57.518 --> 00:11:59.790 in fact many other diseases,
NOTE Confidence: 0.8379827

00:11:59.790 --> 00:12:01.785 it's probably a consequence of
NOTE Confidence: 0.8379827

00:12:01.785 --> 00:12:03.780 simply the aging process that
NOTE Confidence: 0.8379827

00:12:03.848 --> 00:12:05.953 actually damaged various

NOTE Confidence: 0.8379827

00:12:05.953 --> 00:12:07.637 cells throughout our body.

NOTE Confidence: 0.8379827

00:12:07.640 --> 00:12:10.615 And if this damage reaches a threshold

NOTE Confidence: 0.8379827

00:12:10.615 --> 00:12:12.600 purely through bad luck,

NOTE Confidence: 0.8379827

00:12:12.600 --> 00:12:16.016 then a cell transitions into

NOTE Confidence: 0.8379827

00:12:16.020 --> 00:12:17.732 a malignant or cancerous

NOTE Confidence: 0.8379827

00:12:17.732 --> 00:12:20.300 phenotype and then goes

NOTE Confidence: 0.8379827

00:12:20.368 --> 00:12:22.606 down the path of becoming cancer.

NOTE Confidence: 0.86802304

00:12:23.200 --> 00:12:24.848 Yeah, one other topic

NOTE Confidence: 0.86802304

00:12:24.848 --> 00:12:28.809 I want to touch on before we

NOTE Confidence: 0.86802304

00:12:28.809 --> 00:12:31.605 leave this whole concept of genetics

NOTE Confidence: 0.86802304

00:12:31.605 --> 00:12:34.951 ties into some of the subtypes

NOTE Confidence: 0.86802304

00:12:34.951 --> 00:12:37.728 that you were talking about earlier.

NOTE Confidence: 0.86802304

00:12:37.728 --> 00:12:39.998 When we think about subtypes

NOTE Confidence: 0.86802304

00:12:39.998 --> 00:12:41.360 of breast cancer

NOTE Confidence: 0.86802304

00:12:41.360 --> 00:12:43.630 oftentimes we talk about whether

NOTE Confidence: 0.86802304

00:12:43.630 --> 00:12:45.446 these are estrogen receptor
NOTE Confidence: 0.86802304

00:12:45.446 --> 00:12:46.860 positive, progesterone receptor
NOTE Confidence: 0.86802304

00:12:46.860 --> 00:12:49.524 positive or HER2 positive so
NOTE Confidence: 0.86802304

00:12:49.530 --> 00:12:53.490 these three markers help us to understand
NOTE Confidence: 0.86802304

00:12:53.490 --> 00:12:55.716 different types and so are people
NOTE Confidence: 0.86802304

00:12:55.716 --> 00:12:58.350 who have a genetic predisposition,
NOTE Confidence: 0.86802304

00:12:58.350 --> 00:13:02.328 for example, BRCA one or two,
NOTE Confidence: 0.86802304

00:13:02.330 --> 00:13:05.221 are they more at risk of certain
NOTE Confidence: 0.86802304

00:13:05.221 --> 00:13:08.080 subtypes of breast cancer than others?
NOTE Confidence: 0.82306206

00:13:09.390 --> 00:13:11.500 Yes, the BRCA mutation
NOTE Confidence: 0.82306206

00:13:11.500 --> 00:13:13.740 increases the risk of
NOTE Confidence: 0.82306206

00:13:13.740 --> 00:13:15.532 triple negative breast cancer
NOTE Confidence: 0.82306206

00:13:15.532 --> 00:13:17.985 more than it increases the risk
NOTE Confidence: 0.82306206

00:13:17.985 --> 00:13:19.915 for the EGFR disease.
NOTE Confidence: 0.82306206

00:13:19.920 --> 00:13:20.901 In other words,
NOTE Confidence: 0.82306206

00:13:20.901 --> 00:13:23.190 patients with the BRCA1 or 2

NOTE Confidence: 0.82306206

00:13:23.264 --> 00:13:25.244 mutation more frequently have

NOTE Confidence: 0.82306206

00:13:25.244 --> 00:13:27.719 estrogen receptor negative or estrogen

NOTE Confidence: 0.82306206

00:13:27.719 --> 00:13:30.017 and HER2 receptor negative,

NOTE Confidence: 0.82306206

00:13:30.020 --> 00:13:31.935 what we call triple negative

NOTE Confidence: 0.82306206

00:13:31.935 --> 00:13:34.650 disease in the BRCA2 Mutation.

NOTE Confidence: 0.82306206

00:13:34.650 --> 00:13:38.748 This proportion is closer to 50-50.

00:13:42.340 --> 00:13:44.220 To give some additional background into

NOTE Confidence: 0.8137695

00:13:44.220 --> 00:13:46.100 this receptor categorization,

NOTE Confidence: 0.8137695

00:13:46.100 --> 00:13:48.690 one of the most important insights

NOTE Confidence: 0.8137695

00:13:48.690 --> 00:13:51.362 that we have made into the biology

NOTE Confidence: 0.8137695

00:13:51.362 --> 00:13:54.034 of breast cancer in the past 20

NOTE Confidence: 0.8137695

00:13:54.034 --> 00:13:56.624 years is the recognition that the ER

NOTE Confidence: 0.8137695

00:13:56.630 --> 00:13:58.795 positive or estrogen receptor positive

NOTE Confidence: 0.8137695

00:13:58.795 --> 00:14:00.527 breast cancer really fundamentally is

NOTE Confidence: 0.8137695

00:14:00.527 --> 00:14:02.640 different from the triple negative or ER

NOTE Confidence: 0.8137695

00:14:02.640 --> 00:14:03.392 negative cancers.

NOTE Confidence: 0.8137695

00:14:03.392 --> 00:14:04.896 They arise from different

NOTE Confidence: 0.8137695

00:14:04.896 --> 00:14:06.400 cells in the breast.

NOTE Confidence: 0.8137695

00:14:06.400 --> 00:14:08.280 They have different risk factors

NOTE Confidence: 0.8137695

00:14:08.280 --> 00:14:09.784 and they require different

NOTE Confidence: 0.8137695

00:14:09.790 --> 00:14:12.040 therapies.

NOTE Confidence: 0.8322384

00:14:12.680 --> 00:14:16.055 There is a good marker that we

NOTE Confidence: 0.8322384

00:14:16.055 --> 00:14:18.908 routinely test for, so estrogen receptor

NOTE Confidence: 0.8322384

00:14:18.910 --> 00:14:21.025 and progesterone receptor and HER2 which

00:14:23.470 --> 00:14:26.431 is an abbreviation for the human

NOTE Confidence: 0.8322384

00:14:26.431 --> 00:14:28.868 epidermal growth factor receptor 2 gene.

NOTE Confidence: 0.8322384

00:14:28.870 --> 00:14:31.651 So HER2 is the third variable that we

NOTE Confidence: 0.8322384

00:14:31.651 --> 00:14:34.512 always test the breast cancer for because

NOTE Confidence: 0.8322384

00:14:34.512 --> 00:14:37.379 there are highly effective therapies for

NOTE Confidence: 0.8322384

00:14:37.379 --> 00:14:39.659 this particular molecular abnormality,

NOTE Confidence: 0.8322384

00:14:39.660 --> 00:14:42.978 but about 10 to 15% of cancer carry it.

NOTE Confidence: 0.8564542

00:14:43.430 --> 00:14:46.038 I think that that's so important

NOTE Confidence: 0.8564542

00:14:46.038 --> 00:14:48.670 to really understand that classification,

NOTE Confidence: 0.8564542

00:14:48.670 --> 00:14:51.822 which we're going to get into right after

NOTE Confidence: 0.8564542

00:14:51.822 --> 00:14:55.520 we take a short break for a medical minute.

NOTE Confidence: 0.8564542

00:14:55.520 --> 00:14:57.866 Please stay tuned to learn more

NOTE Confidence: 0.8564542

00:14:57.866 --> 00:15:00.360 about the treatment and diagnosis of

NOTE Confidence: 0.856454200000001

00:15:00.360 --> 00:15:02.761 breast cancer with my guest doctor Lajos Pusztai.

NOTE Confidence: 0.856454200000001

00:15:02.761 --> 00:15:04.893 Support for Yale Cancer Answers

NOTE Confidence: 0.856454200000001

00:15:04.893 --> 00:15:06.981 comes from AstraZeneca, proud partner

NOTE Confidence: 0.856454200000001

00:15:06.981 --> 00:15:08.985 in personalized medicine developing

NOTE Confidence: 0.856454200000001

00:15:08.985 --> 00:15:11.635 tailored treatments for cancer patients.

NOTE Confidence: 0.856454200000001

00:15:11.640 --> 00:15:15.140 Learn more at astrazeneca-us.com.

NOTE Confidence: 0.856454200000001

00:15:15.140 --> 00:15:18.388 This is a medical minute about lung cancer.

NOTE Confidence: 0.856454200000001

00:15:18.390 --> 00:15:20.938 More than 85% of lung cancer diagnosis

NOTE Confidence: 0.856454200000001

00:15:20.938 --> 00:15:23.866 are related to smoking and quitting even

NOTE Confidence: 0.856454200000001

00:15:23.866 --> 00:15:26.506 after decades of use can significantly

NOTE Confidence: 0.856454200000001

00:15:26.579 --> 00:15:28.973 reduce your risk of developing lung
NOTE Confidence: 0.856454200000001

00:15:28.973 --> 00:15:30.951 cancer. For lung cancer patients
NOTE Confidence: 0.856454200000001

00:15:30.951 --> 00:15:32.856 clinical trials are currently underway
NOTE Confidence: 0.856454200000001

00:15:32.856 --> 00:15:35.030 to test innovative new treatments.
NOTE Confidence: 0.856454200000001

00:15:35.030 --> 00:15:38.036 Advances are being made by utilizing
NOTE Confidence: 0.856454200000001

00:15:38.036 --> 00:15:40.040 targeted therapies and immunotherapies.
NOTE Confidence: 0.856454200000001

00:15:40.116 --> 00:15:42.174 The BATTLE 2 trial aims to learn
NOTE Confidence: 0.856454200000001

00:15:42.174 --> 00:15:44.760 if a drug or combination of drugs
NOTE Confidence: 0.856454200000001

00:15:44.760 --> 00:15:47.208 based on personal biomarkers can help
NOTE Confidence: 0.856454200000001

00:15:47.210 --> 00:15:50.227 to control NSCLC.
NOTE Confidence: 0.856454200000001

00:15:50.230 --> 00:15:53.005 More information is available
NOTE Confidence: 0.856454200000001

00:15:53.005 --> 00:15:54.115 at yalecancercenter.org.
NOTE Confidence: 0.856454200000001

00:15:54.120 --> 00:15:58.848 You're listening to Connecticut public radio.
NOTE Confidence: 0.856454200000001

00:15:58.850 --> 00:15:59.230 Welcome
NOTE Confidence: 0.83584005

00:15:59.230 --> 00:16:01.110 back to Yale Cancer Answers.
NOTE Confidence: 0.83584005

00:16:01.110 --> 00:16:03.162 This is doctor Anees Chagpar

NOTE Confidence: 0.83584005

00:16:03.162 --> 00:16:05.438 and I'm joined tonight by

NOTE Confidence: 0.83584005

00:16:05.438 --> 00:16:07.518 my guest Doctor Lajos Pusztai.

NOTE Confidence: 0.83584005

00:16:07.520 --> 00:16:09.932 We're talking about the care of

NOTE Confidence: 0.83584005

00:16:09.932 --> 00:16:12.003 patients with breast cancer in

NOTE Confidence: 0.83584005

00:16:12.003 --> 00:16:13.978 honor of Breast Cancer Awareness

NOTE Confidence: 0.83584005

00:16:13.978 --> 00:16:16.588 Month and right before the break

NOTE Confidence: 0.83584005

00:16:16.588 --> 00:16:18.828 we were talking a little bit

NOTE Confidence: 0.83584005

00:16:18.830 --> 00:16:21.086 about these types of breast cancer.

NOTE Confidence: 0.83584005

00:16:21.090 --> 00:16:22.980 This classification based on receptors.

NOTE Confidence: 0.83584005

00:16:22.980 --> 00:16:24.348 the ER, the PR,

NOTE Confidence: 0.83584005

00:16:24.348 --> 00:16:26.948 the HER 2 neu and you were

NOTE Confidence: 0.83584005

00:16:26.948 --> 00:16:29.660 telling us that

NOTE Confidence: 0.83584005

00:16:29.660 --> 00:16:33.377 these make a big difference in terms of a

NOTE Confidence: 0.83584005

00:16:33.377 --> 00:16:36.309 patient's prognosis and their treatment.

NOTE Confidence: 0.83584005

00:16:36.310 --> 00:16:39.635 So let's pick up our conversation there.

NOTE Confidence: 0.83584005

00:16:39.640 --> 00:16:43.438 Tell us a bit more about the risk factors

NOTE Confidence: 0.83584005

00:16:43.438 --> 00:16:47.709 for each of these different types of cancer.

NOTE Confidence: 0.83584005

00:16:47.710 --> 00:16:50.090 How you think about them,

NOTE Confidence: 0.83584005

00:16:50.090 --> 00:16:52.940 and how that really dictates treatment.

NOTE Confidence: 0.8242818

00:16:54.490 --> 00:16:57.628 Risk factors for ER positive disease

NOTE Confidence: 0.8242818

00:16:57.628 --> 00:17:00.363 is being overweight or obesity

NOTE Confidence: 0.8242818

00:17:00.363 --> 00:17:03.098 at the post menopausal state.

NOTE Confidence: 0.8242818

00:17:03.100 --> 00:17:05.856 Also regular alcohol intake

NOTE Confidence: 0.8242818

00:17:05.856 --> 00:17:10.700 increases the risk a little bit also.

00:17:15.930 --> 00:17:18.200 Starting regular periods at

NOTE Confidence: 0.8242818

00:17:18.200 --> 00:17:21.572 a young age and having a late

NOTE Confidence: 0.8242818

00:17:21.572 --> 00:17:24.102 menopause are also associated with

NOTE Confidence: 0.8242818

00:17:24.102 --> 00:17:26.848 increased risk as well as late

NOTE Confidence: 0.8242818

00:17:26.850 --> 00:17:29.700 childbirth or lack of pregnancy.

NOTE Confidence: 0.8242818

00:17:29.700 --> 00:17:32.320 So these reproductive variables or

NOTE Confidence: 0.8242818

00:17:32.320 --> 00:17:34.940 reproductive sort of factors don't

NOTE Confidence: 0.8242818

00:17:35.020 --> 00:17:37.300 seem to carry the same weight.

NOTE Confidence: 0.8242818

00:17:37.300 --> 00:17:39.492 For ER negative disease,

NOTE Confidence: 0.8242818

00:17:42.240 --> 00:17:43.924 actually multiple early pregnancies

NOTE Confidence: 0.8242818

00:17:43.924 --> 00:17:46.450 seem to increase the risk and

NOTE Confidence: 0.8242818

00:17:46.523 --> 00:17:48.207 lack of breastfeeding.

NOTE Confidence: 0.8242818

00:17:48.210 --> 00:17:50.738 With regards to therapy

NOTE Confidence: 0.8242818

00:17:50.738 --> 00:17:52.783 though there are really large

NOTE Confidence: 0.8242818

00:17:52.783 --> 00:17:54.620 differences in how we approach

00:17:55.901 --> 00:17:57.609 different types of breast cancers.

NOTE Confidence: 0.80129904

00:17:58.990 --> 00:18:00.990 Yeah, tell us more about that.

NOTE Confidence: 0.80129904

00:18:00.990 --> 00:18:02.990 With ER positive disease,

NOTE Confidence: 0.80129904

00:18:02.990 --> 00:18:05.370 the most important set of

NOTE Confidence: 0.80129904

00:18:05.370 --> 00:18:07.877 weapons in our armamentarium is

NOTE Confidence: 0.80129904

00:18:07.877 --> 00:18:10.697 estrogen stretching therapy and this could

NOTE Confidence: 0.80129904

00:18:10.697 --> 00:18:13.115 include drugs which block the effect

NOTE Confidence: 0.80129904

00:18:13.115 --> 00:18:15.780 of estrogen and also drugs which could

NOTE Confidence: 0.80129904

00:18:15.780 --> 00:18:18.150 block the enzymes that make estrogen

NOTE Confidence: 0.80129904

00:18:18.150 --> 00:18:20.987 and lowers region levels so these are

NOTE Confidence: 0.80129904

00:18:20.987 --> 00:18:23.430 called aromatase inhibitors and they

NOTE Confidence: 0.80129904

00:18:23.430 --> 00:18:25.800 are the mainstay of curative treatment

NOTE Confidence: 0.80129904

00:18:25.800 --> 00:18:29.702 for early stage ER positive disease.

NOTE Confidence: 0.80129904

00:18:29.702 --> 00:18:32.506 We used to recommended these drugs

NOTE Confidence: 0.80129904

00:18:32.506 --> 00:18:34.166 be taken for five years,

NOTE Confidence: 0.80129904

00:18:34.170 --> 00:18:36.642 but there is more and more data that

NOTE Confidence: 0.80129904

00:18:36.642 --> 00:18:38.809 suggests that going beyond five years,

NOTE Confidence: 0.80129904

00:18:38.810 --> 00:18:41.897 an extended duration of this so called

NOTE Confidence: 0.80129904

00:18:41.897 --> 00:18:44.366 adjuvant endocrine therapy to 10 years

NOTE Confidence: 0.80129904

00:18:44.366 --> 00:18:46.520 further improves the chance of

NOTE Confidence: 0.80129904

00:18:46.520 --> 00:18:49.325 cure and reduces the risk of recurrence.

NOTE Confidence: 0.80129904

00:18:49.330 --> 00:18:52.172 Literally a few days ago there was

NOTE Confidence: 0.80129904

00:18:52.172 --> 00:18:53.811 another major breakthrough announced

NOTE Confidence: 0.80129904

00:18:53.811 --> 00:18:56.627 in the news and the results of the

NOTE Confidence: 0.80129904

00:18:56.627 --> 00:18:58.570 clinical trial will be presented

NOTE Confidence: 0.80129904

00:18:58.570 --> 00:19:00.844 shortly adding another additional

NOTE Confidence: 0.80129904

00:19:03.040 --> 00:19:05.396 drug to this

NOTE Confidence: 0.80129904

00:19:05.396 --> 00:19:07.904 class of agents could further improve

NOTE Confidence: 0.80129904

00:19:07.904 --> 00:19:10.446 the survival rate in early stage disease.

NOTE Confidence: 0.80129904

00:19:10.450 --> 00:19:12.170 This additional type of drug

NOTE Confidence: 0.80129904

00:19:12.170 --> 00:19:14.670 is called the CD K46 Inhibitor.

NOTE Confidence: 0.80129904

00:19:14.670 --> 00:19:16.938 These are drugs that we have

NOTE Confidence: 0.80129904

00:19:16.938 --> 00:19:19.010 been using for many years

NOTE Confidence: 0.80129904

00:19:19.010 --> 00:19:21.390 in the incurable metastatic setting,

NOTE Confidence: 0.80129904

00:19:21.390 --> 00:19:23.340 because they prolong the life of

NOTE Confidence: 0.80129904

00:19:23.340 --> 00:19:25.130 patients with metastatic disease.

NOTE Confidence: 0.80129904

00:19:25.130 --> 00:19:27.237 And now we have data that shows

NOTE Confidence: 0.80129904

00:19:27.237 --> 00:19:28.980 that it actually improves cure

NOTE Confidence: 0.80129904

00:19:28.980 --> 00:19:30.910 rates in early stage disease.

NOTE Confidence: 0.80129904

00:19:30.910 --> 00:19:33.448 So this is going to be another major
NOTE Confidence: 0.80129904

00:19:33.448 --> 00:19:36.328 new development that will come to the
NOTE Confidence: 0.80129904

00:19:36.328 --> 00:19:38.729 clinic later this year and definitely
NOTE Confidence: 0.832470239999999

00:19:38.730 --> 00:19:41.033 early next year.
NOTE Confidence: 0.832470239999999

00:19:41.033 --> 00:19:43.228 Does that mean that patients who are taking this
NOTE Confidence: 0.832470239999999

00:19:43.228 --> 00:19:45.128 endocrine therapy this pill that
NOTE Confidence: 0.832470239999999

00:19:45.128 --> 00:19:47.140 people take for breast cancer for
NOTE Confidence: 0.832470239999999

00:19:47.140 --> 00:19:49.646 five years and now for 10 years might
NOTE Confidence: 0.832470239999999

00:19:49.646 --> 00:19:51.794 be getting another pill to take?
NOTE Confidence: 0.832470239999999

00:19:51.800 --> 00:19:55.400 Yes.

00:19:57.600 --> 00:20:00.176 And when we talk on this show,
NOTE Confidence: 0.832470239999999

00:20:00.180 --> 00:20:02.833 about personalized
NOTE Confidence: 0.832470239999999

00:20:02.833 --> 00:20:04.710 medicine and targeted therapies,
NOTE Confidence: 0.832470239999999

00:20:04.710 --> 00:20:07.428 it seems to me that that was probably one
NOTE Confidence: 0.832470239999999

00:20:07.428 --> 00:20:10.375 of the earliest targeted therapies was
NOTE Confidence: 0.832470239999999

00:20:10.375 --> 00:20:12.950 really targeting the estrogen receptor,
NOTE Confidence: 0.832470239999999

00:20:12.950 --> 00:20:15.726 but many patients want to know will they
NOTE Confidence: 0.8324702399999999

00:20:15.726 --> 00:20:18.367 still need chemotherapy if their cancer
NOTE Confidence: 0.8324702399999999

00:20:18.367 --> 00:20:21.181 is an estrogen receptor positive cancer?
NOTE Confidence: 0.8324702399999999

00:20:21.190 --> 00:20:24.286 Are there a subset of patients in whom you
NOTE Confidence: 0.8324702399999999

00:20:24.286 --> 00:20:27.366 would still offer chemotherapy in addition,
NOTE Confidence: 0.8324702399999999

00:20:27.370 --> 00:20:30.254 and how do you make those decisions?
NOTE Confidence: 0.84051067

00:20:31.070 --> 00:20:33.518 So a few years ago and this used
NOTE Confidence: 0.84051067

00:20:33.518 --> 00:20:36.352 to be a constant topic of discussion
NOTE Confidence: 0.84051067

00:20:36.352 --> 00:20:39.741 among physicians and part of the
NOTE Confidence: 0.84051067

00:20:39.741 --> 00:20:41.949 multidisciplinary tumor board discussions.
NOTE Confidence: 0.84051067

00:20:41.950 --> 00:20:44.958 But in the past few years,
NOTE Confidence: 0.84051067

00:20:44.960 --> 00:20:47.235 we actually have more molecular tests
NOTE Confidence: 0.84051067

00:20:47.235 --> 00:20:49.634 that make this discussion
NOTE Confidence: 0.84051067

00:20:49.634 --> 00:20:52.340 more objective than the subjective
NOTE Confidence: 0.84051067

00:20:52.340 --> 00:20:54.356 feeling of the physician.
NOTE Confidence: 0.84051067

00:20:54.360 --> 00:20:56.719 So there are a number of molecular

NOTE Confidence: 0.84051067

00:20:56.719 --> 00:20:59.147 tests that can be performed on the

NOTE Confidence: 0.84051067

00:20:59.147 --> 00:21:01.678 resected tumor issue or on a biopsy

NOTE Confidence: 0.84051067

00:21:01.678 --> 00:21:04.318 of the cancer that established

NOTE Confidence: 0.84051067

00:21:04.318 --> 00:21:06.870 diagnosis which could help define

NOTE Confidence: 0.84051067

00:21:06.870 --> 00:21:08.920 to what extent a particular patient would

NOTE Confidence: 0.84051067

00:21:08.920 --> 00:21:11.044 benefit from adjuvant chemotherapy

NOTE Confidence: 0.84051067

00:21:11.044 --> 00:21:13.528 in addition to the hormonal therapy.

NOTE Confidence: 0.84051067

00:21:13.530 --> 00:21:15.780 These tests have various commercial

NOTE Confidence: 0.84051067

00:21:15.780 --> 00:21:18.853 names and they are provided by various companies.

00:21:24.740 --> 00:21:27.506 They all invalidated for the same purpose

NOTE Confidence: 0.84051067

00:21:27.506 --> 00:21:31.032 that they can define the ER positive

NOTE Confidence: 0.84051067

00:21:31.032 --> 00:21:33.160 or estrogen receptor positive

NOTE Confidence: 0.84051067

00:21:33.160 --> 00:21:35.608 population that benefits from adjuvant

NOTE Confidence: 0.84051067

00:21:35.608 --> 00:21:37.670 chemotherapy.

NOTE Confidence: 0.84051067

00:21:37.670 --> 00:21:40.253 We also learned that the majority

NOTE Confidence: 0.84051067

00:21:40.253 --> 00:21:42.784 of the estrogen and receptor positive
NOTE Confidence: 0.84051067

00:21:42.784 --> 00:21:45.049 patients do not need chemotherapy.
NOTE Confidence: 0.84051067

00:21:45.050 --> 00:21:47.510 But if the assay predicts that
NOTE Confidence: 0.84051067

00:21:47.510 --> 00:21:49.150 they do need chemotherapy,
NOTE Confidence: 0.84051067

00:21:49.150 --> 00:21:51.748 it's important that they they understand
NOTE Confidence: 0.84051067

00:21:51.748 --> 00:21:54.480 the consequences and the fact that this
NOTE Confidence: 0.8670981

00:21:54.480 --> 00:21:56.275 could improve cure rates.
NOTE Confidence: 0.8670981

00:21:56.275 --> 00:21:58.631 So for all of our patients
NOTE Confidence: 0.8670981

00:21:58.631 --> 00:22:01.036 who are listening out there,
NOTE Confidence: 0.8670981

00:22:01.040 --> 00:22:03.220 and many of them may
NOTE Confidence: 0.8670981

00:22:03.220 --> 00:22:05.675 either have had breast cancer
NOTE Confidence: 0.8670981

00:22:05.675 --> 00:22:08.540 themselves or know somebody who has.
NOTE Confidence: 0.8670981

00:22:08.540 --> 00:22:10.995 Should all patients who have
NOTE Confidence: 0.8670981

00:22:10.995 --> 00:22:12.959 estrogen receptor positive cancers
NOTE Confidence: 0.8670981

00:22:12.959 --> 00:22:15.405 be advocating for themselves to
NOTE Confidence: 0.8670981

00:22:15.405 --> 00:22:18.219 get one of these molecular assays?

NOTE Confidence: 0.8670981

00:22:18.220 --> 00:22:20.758 Or are these assays something that

NOTE Confidence: 0.8670981

00:22:20.758 --> 00:22:24.030 we will order in specific patients?

NOTE Confidence: 0.8583139

00:22:25.630 --> 00:22:27.840 It's probably not the best

NOTE Confidence: 0.8583139

00:22:27.840 --> 00:22:31.140 way to do this in everybody

NOTE Confidence: 0.8583139

00:22:31.140 --> 00:22:34.404 but rather in patients where the

NOTE Confidence: 0.8583139

00:22:34.404 --> 00:22:36.036 question whether chemotherapy

NOTE Confidence: 0.8583139

00:22:36.036 --> 00:22:38.660 could help or not is uncertain.

NOTE Confidence: 0.8583139

00:22:38.660 --> 00:22:42.050 There are clinical situations where

NOTE Confidence: 0.8583139

00:22:42.050 --> 00:22:44.762 a physician can quite confidently

NOTE Confidence: 0.8583139

00:22:44.770 --> 00:22:46.380 feel that the chemotherapy wouldn't

NOTE Confidence: 0.8583139

00:22:46.380 --> 00:22:48.670 be helpful or would be necessary

NOTE Confidence: 0.8583139

00:22:48.670 --> 00:22:50.847 if it is a very large tumor

NOTE Confidence: 0.8583139

00:22:50.847 --> 00:22:52.768 with multiple influences involved,

NOTE Confidence: 0.8583139

00:22:52.770 --> 00:22:55.206 it would be risky to avoid chemotherapy,

NOTE Confidence: 0.8583139

00:22:55.210 --> 00:22:57.298 and regardless of the results,

NOTE Confidence: 0.8583139

00:22:57.300 --> 00:22:59.286 because even with this small chance
NOTE Confidence: 0.8583139

00:22:59.286 --> 00:23:01.511 or a small relative improvement could
NOTE Confidence: 0.8583139

00:23:01.511 --> 00:23:04.007 translate into a significant number of
NOTE Confidence: 0.8583139

00:23:04.007 --> 00:23:06.319 patients who benefit when the risk is
NOTE Confidence: 0.8583139

00:23:06.319 --> 00:23:08.781 very high and the flip side of this,
NOTE Confidence: 0.8583139

00:23:08.781 --> 00:23:10.169 there are very small,
NOTE Confidence: 0.8583139

00:23:10.170 --> 00:23:12.487 very low grade or grade one tumors
NOTE Confidence: 0.8583139

00:23:12.487 --> 00:23:14.818 less than a centimeter,
NOTE Confidence: 0.8583139

00:23:14.820 --> 00:23:17.095 there is no lymph node involvement where
NOTE Confidence: 0.8583139

00:23:17.095 --> 00:23:19.525 it's also clear that the added benefit
NOTE Confidence: 0.8583139

00:23:19.525 --> 00:23:21.613 from chemotherapy could be very
NOTE Confidence: 0.8583139

00:23:21.620 --> 00:23:23.320 very small because the chance
NOTE Confidence: 0.8583139

00:23:23.320 --> 00:23:25.020 of cure with surgery alone,
NOTE Confidence: 0.8583139

00:23:25.020 --> 00:23:26.380 plus with hormone therapy,
NOTE Confidence: 0.8583139

00:23:26.380 --> 00:23:27.740 is already very high.
NOTE Confidence: 0.8583139

00:23:27.740 --> 00:23:30.323 So we tend to use these tests

NOTE Confidence: 0.8583139
00:23:30.323 --> 00:23:32.614 instead of this middle ground setting
NOTE Confidence: 0.8583139
00:23:32.614 --> 00:23:35.219 when the risk for recurrence is
NOTE Confidence: 0.85450673
00:23:35.220 --> 00:23:36.920 very low nor very high.
NOTE Confidence: 0.85450673
00:23:36.920 --> 00:23:39.013 Now to move to
NOTE Confidence: 0.85450673
00:23:39.013 --> 00:23:41.064 the other kind of types of
NOTE Confidence: 0.85450673
00:23:41.064 --> 00:23:42.869 breast cancer and other types
NOTE Confidence: 0.85450673
00:23:42.869 --> 00:23:44.919 of therapy you had mentioned.
NOTE Confidence: 0.85450673
00:23:44.920 --> 00:23:46.760 This other receptor HER2
NOTE Confidence: 0.85450673
00:23:46.760 --> 00:23:49.280 and the fact that we have targeted
NOTE Confidence: 0.85450673
00:23:49.280 --> 00:23:51.541 therapies for this as well that
NOTE Confidence: 0.85450673
00:23:51.541 --> 00:23:53.017 are very efficacious.
NOTE Confidence: 0.8688853
00:23:56.640 --> 00:23:58.690 HER 2 positive breast cancers
NOTE Confidence: 0.8688853
00:23:58.690 --> 00:24:01.659 became the poster child of our
NOTE Confidence: 0.8688853
00:24:01.659 --> 00:24:03.779 success in breast cancer treatment.
NOTE Confidence: 0.8688853
00:24:03.780 --> 00:24:06.288 This came about by the discovery
NOTE Confidence: 0.8688853

00:24:06.288 --> 00:24:08.452 of antibodies and drugs
NOTE Confidence: 0.8688853

00:24:08.452 --> 00:24:10.888 that block the effect of this
NOTE Confidence: 0.8688853

00:24:10.890 --> 00:24:13.716 HER 2 signaling to
NOTE Confidence: 0.8688853

00:24:13.716 --> 00:24:15.600 amplify breast cancers.
NOTE Confidence: 0.8688853

00:24:15.677 --> 00:24:18.405 About 10-15 years ago and now we have
NOTE Confidence: 0.8688853

00:24:18.405 --> 00:24:20.920 at least four or five different
NOTE Confidence: 0.8688853

00:24:20.920 --> 00:24:23.536 HER2 targeted therapies that can
NOTE Confidence: 0.8688853

00:24:23.536 --> 00:24:25.929 be combined with standard of care,
NOTE Confidence: 0.8688853

00:24:25.930 --> 00:24:26.766 hormonal therapy,
NOTE Confidence: 0.8688853

00:24:26.766 --> 00:24:29.274 or chemotherapy if chemotherapy is needed,
NOTE Confidence: 0.8688853

00:24:29.280 --> 00:24:31.974 which improves the efficacy of these
NOTE Confidence: 0.8688853

00:24:31.974 --> 00:24:33.770 more conventional treatment modalities.
NOTE Confidence: 0.8688853

00:24:33.770 --> 00:24:35.348 Leading to very,
NOTE Confidence: 0.8688853

00:24:35.348 --> 00:24:37.978 very high rates of cure,
NOTE Confidence: 0.8688853

00:24:37.980 --> 00:24:40.610 avoiding recurrences in HER 2
NOTE Confidence: 0.8688853

00:24:40.610 --> 00:24:42.188 positive disease.

NOTE Confidence: 0.821535230952381
00:24:44.020 --> 00:24:47.177 How do patients
NOTE Confidence: 0.821535230952381
00:24:47.177 --> 00:24:50.488 decide with their doctor about which
NOTE Confidence: 0.821535230952381
00:24:50.488 --> 00:24:54.080 of those therapies is optimal?
NOTE Confidence: 0.82690775
00:24:56.090 --> 00:24:59.125 Herceptin is
NOTE Confidence: 0.82690775
00:24:59.125 --> 00:25:01.964 always part of the therapy of HER 2
NOTE Confidence: 0.82690775
00:25:01.964 --> 00:25:04.434 positive patients either combined
NOTE Confidence: 0.82690775
00:25:04.434 --> 00:25:06.882 with chemotherapy and following the
NOTE Confidence: 0.82690775
00:25:06.882 --> 00:25:08.877 completion of chemotherapy to complete
NOTE Confidence: 0.82690775
00:25:08.877 --> 00:25:11.276 one year on this particular drug,
NOTE Confidence: 0.82690775
00:25:11.276 --> 00:25:14.062 Herceptin, but also we often add
NOTE Confidence: 0.82690775
00:25:14.062 --> 00:25:16.227 another drug called pertuzumab
NOTE Confidence: 0.82690775
00:25:16.230 --> 00:25:18.456 which increases the efficacy and
NOTE Confidence: 0.82690775
00:25:18.456 --> 00:25:21.160 combined with chemotherapy,
NOTE Confidence: 0.82690775
00:25:21.160 --> 00:25:24.640 but also with hormonal therapy.
NOTE Confidence: 0.82690775
00:25:24.640 --> 00:25:26.978 We also learned that the strategy also
NOTE Confidence: 0.82690775

00:25:26.978 --> 00:25:29.255 matters, how we sequence the different
NOTE Confidence: 0.82690775

00:25:29.255 --> 00:25:31.673 types of treatments that someone needs
NOTE Confidence: 0.82690775

00:25:31.673 --> 00:25:34.658 to ensure or maximize the chance of cure
NOTE Confidence: 0.82690775

00:25:34.658 --> 00:25:36.862 to clearly patients who need surgery
NOTE Confidence: 0.82690775

00:25:36.862 --> 00:25:39.106 also need systemic therapies
NOTE Confidence: 0.82690775

00:25:39.106 --> 00:25:41.764 that get to every part of the body with
NOTE Confidence: 0.82690775

00:25:41.764 --> 00:25:43.722 the goal of eradicating micrometastatic
NOTE Confidence: 0.82690775

00:25:43.722 --> 00:25:46.837 cancer cells or cancer cells that have
NOTE Confidence: 0.82690775

00:25:46.840 --> 00:25:49.408 left the breast and hide somewhere
NOTE Confidence: 0.82690775

00:25:49.408 --> 00:25:52.660 in the body before the surgery
NOTE Confidence: 0.82690775

00:25:52.660 --> 00:25:54.600 to remove the tumor.
NOTE Confidence: 0.82690775

00:25:54.600 --> 00:25:57.896 So it turns out that for HER 2
NOTE Confidence: 0.82690775

00:25:57.896 --> 00:25:58.720 positive disease,
NOTE Confidence: 0.82690775

00:25:58.720 --> 00:26:00.580 probably the most effective strategy
NOTE Confidence: 0.82690775

00:26:00.580 --> 00:26:03.660 is to start with a systemic therapy.
NOTE Confidence: 0.82690775

00:26:03.660 --> 00:26:05.620 Often times with chemotherapy,

NOTE Confidence: 0.82690775

00:26:05.620 --> 00:26:08.560 because by following this strategy

NOTE Confidence: 0.82690775

00:26:08.637 --> 00:26:10.617 one could assess how effective

NOTE Confidence: 0.82690775

00:26:10.617 --> 00:26:13.306 the treatment was at the time of

NOTE Confidence: 0.82690775

00:26:13.306 --> 00:26:15.196 the surgery and up to 60-70,

NOTE Confidence: 0.82690775

00:26:15.200 --> 00:26:17.666 or even 80% of the time

NOTE Confidence: 0.82690775

00:26:17.670 --> 00:26:20.078 patients may have no cancer left in

NOTE Confidence: 0.82690775

00:26:20.078 --> 00:26:23.225 their breast by the time they finish

NOTE Confidence: 0.82690775

00:26:23.225 --> 00:26:24.758 their preoperative chemotherapy.

NOTE Confidence: 0.82690775

00:26:24.760 --> 00:26:26.760 With HER2 targeted regiment

NOTE Confidence: 0.82690775

00:26:26.760 --> 00:26:29.170 and those patients do really well,

NOTE Confidence: 0.82690775

00:26:29.170 --> 00:26:32.082 but importantly for those patients whose

NOTE Confidence: 0.82690775

00:26:32.082 --> 00:26:34.790 cancer survives at least to some extent,

NOTE Confidence: 0.82690775

00:26:34.790 --> 00:26:36.620 the preoperative treatment we have

NOTE Confidence: 0.82690775

00:26:36.620 --> 00:26:39.815 Plan B or back of options that have

NOTE Confidence: 0.82690775

00:26:39.815 --> 00:26:42.395 been shown to improve their survival,

NOTE Confidence: 0.82690775

00:26:42.400 --> 00:26:44.806 and these are also HER 2
NOTE Confidence: 0.82690775

00:26:44.806 --> 00:26:46.009 targeted drugs,
NOTE Confidence: 0.82690775

00:26:46.010 --> 00:26:49.218 but with some extra strength added to them,
NOTE Confidence: 0.82690775

00:26:49.220 --> 00:26:51.390 implying that there is additional
NOTE Confidence: 0.82690775

00:26:51.390 --> 00:26:53.560 chemotherapy component attached to HER 2
NOTE Confidence: 0.82690775

00:26:53.626 --> 00:26:56.034 antibody or the entire antibody.
NOTE Confidence: 0.82426935

00:26:56.890 --> 00:26:58.900 So one question that patients
NOTE Confidence: 0.82426935

00:26:58.900 --> 00:27:02.031 may ask is why not give them the
NOTE Confidence: 0.82426935

00:27:02.031 --> 00:27:04.015 supercharged HER 2 therapy,
NOTE Confidence: 0.82426935

00:27:04.015 --> 00:27:06.640 the backup drug up front?
NOTE Confidence: 0.82426935

00:27:06.640 --> 00:27:08.548 It's a good question and in fact
NOTE Confidence: 0.82426935

00:27:08.548 --> 00:27:11.111 it turns out that
NOTE Confidence: 0.82426935

00:27:11.111 --> 00:27:13.141 the supercharged HER 2 targeted
NOTE Confidence: 0.82426935

00:27:13.141 --> 00:27:15.957 antibody is still not as good as
NOTE Confidence: 0.82426935

00:27:15.957 --> 00:27:17.501 the chemotherapy plus Herceptin
NOTE Confidence: 0.82426935

00:27:17.501 --> 00:27:20.422 plus together, in other words

NOTE Confidence: 0.82426935

00:27:20.422 --> 00:27:22.110 this pathological complete

NOTE Confidence: 0.82426935

00:27:22.182 --> 00:27:24.555 eradication of the cancer is a little

NOTE Confidence: 0.82426935

00:27:24.555 --> 00:27:26.888 less if you just use one drug.

NOTE Confidence: 0.82426935

00:27:26.890 --> 00:27:28.354 This supercharged Herceptin.

NOTE Confidence: 0.82426935

00:27:28.354 --> 00:27:31.770 Which is called TDM one.

NOTE Confidence: 0.82426935

00:27:31.770 --> 00:27:34.180 So that's the reason why.

NOTE Confidence: 0.82426935

00:27:34.180 --> 00:27:37.156 But we also know that it works

NOTE Confidence: 0.82426935

00:27:37.156 --> 00:27:40.735 even on cancer cells that survived the

NOTE Confidence: 0.82426935

00:27:40.735 --> 00:27:44.280 more sort of aggressive initial therapy.

NOTE Confidence: 0.82426935

00:27:44.280 --> 00:27:45.240 And that's

NOTE Confidence: 0.8541915

00:27:45.240 --> 00:27:49.088 the main reason why it's sequenced this way,

NOTE Confidence: 0.8541915

00:27:49.090 --> 00:27:51.659 And so the final kind of category

NOTE Confidence: 0.8541915

00:27:51.659 --> 00:27:54.034 of patients are ones that

NOTE Confidence: 0.8541915

00:27:54.034 --> 00:27:56.430 really don't express estrogen

NOTE Confidence: 0.8541915

00:27:56.430 --> 00:27:58.227 receptor progesterone receptors.

NOTE Confidence: 0.8541915

00:27:58.230 --> 00:28:00.150 So endocrine therapies are
NOTE Confidence: 0.8541915

00:28:00.150 --> 00:28:01.590 not particularly effective.
NOTE Confidence: 0.8541915

00:28:01.590 --> 00:28:02.958 They don't have
NOTE Confidence: 0.8541915

00:28:02.958 --> 00:28:05.238 HER 2 positive cancers,
NOTE Confidence: 0.8541915

00:28:05.240 --> 00:28:07.784 so these anti HER 2 agents
NOTE Confidence: 0.8541915

00:28:07.784 --> 00:28:09.056 aren't particularly effective,
NOTE Confidence: 0.8541915

00:28:09.060 --> 00:28:11.175 and that's really this triple
NOTE Confidence: 0.8541915

00:28:11.175 --> 00:28:12.867 negative breast cancer class.
NOTE Confidence: 0.8541915

00:28:12.870 --> 00:28:14.990 So what's your approach there?
00:28:15.840 --> 00:28:17.109 In triple negative disease,
NOTE Confidence: 0.83237594

00:28:17.109 --> 00:28:19.224 particularly for early stage patients,
NOTE Confidence: 0.83237594

00:28:19.230 --> 00:28:22.107 which is about 90% of all newly
NOTE Confidence: 0.83237594

00:28:22.107 --> 00:28:23.853 diagnosed triple negative breast
NOTE Confidence: 0.83237594

00:28:23.853 --> 00:28:26.018 cancers are at early stage, stage
NOTE Confidence: 0.83237594

00:28:26.020 --> 00:28:28.558 one, stage two, stage three disease,
NOTE Confidence: 0.83237594

00:28:28.560 --> 00:28:31.392 we haven't really had any major
NOTE Confidence: 0.83237594

00:28:31.392 --> 00:28:33.860 breakthroughs for about 20 years

NOTE Confidence: 0.83237594

00:28:33.860 --> 00:28:36.210 until literally last

NOTE Confidence: 0.83237594

00:28:36.210 --> 00:28:38.560 year and earlier this year,

NOTE Confidence: 0.83237594

00:28:38.560 --> 00:28:40.666 when a number of clinical trials

NOTE Confidence: 0.83237594

00:28:40.666 --> 00:28:42.600 have shown the efficacy of

NOTE Confidence: 0.83237594

00:28:42.600 --> 00:28:44.472 chemotherapy could be increased

NOTE Confidence: 0.83237594

00:28:44.472 --> 00:28:46.344 by including immune checkpoint

NOTE Confidence: 0.83237594

00:28:46.344 --> 00:28:48.202 inhibitors so the immune checkpoint

NOTE Confidence: 0.83237594

00:28:48.202 --> 00:28:50.545 innovators had a new class of drugs,

NOTE Confidence: 0.83237594

00:28:50.545 --> 00:28:52.960 which stimulates or Rev up

NOTE Confidence: 0.83237594

00:28:52.960 --> 00:28:55.219 the anti cancer immune response and

NOTE Confidence: 0.83237594

00:28:55.219 --> 00:28:57.967 they have been shown to be highly

NOTE Confidence: 0.83237594

00:28:57.967 --> 00:29:00.117 effective in some very difficult

NOTE Confidence: 0.83237594

00:29:00.117 --> 00:29:02.650 to treat cancers like lung cancer,

NOTE Confidence: 0.83237594

00:29:02.650 --> 00:29:05.080 Melanoma and now we have evidence

NOTE Confidence: 0.83237594

00:29:05.080 --> 00:29:07.618 they also work in early stage,

NOTE Confidence: 0.83237594

00:29:07.620 --> 00:29:09.740 triple negative disease and also

NOTE Confidence: 0.83237594

00:29:09.740 --> 00:29:11.436 in combination with chemotherapy.

NOTE Confidence: 0.83237594

00:29:11.440 --> 00:29:14.688 They have shown to prolong the life of

NOTE Confidence: 0.83237594

00:29:14.688 --> 00:29:17.378 patients with advanced or stage four,

NOTE Confidence: 0.83237594

00:29:17.380 --> 00:29:18.592 triple negative cancer.

NOTE Confidence: 0.83237594

00:29:18.592 --> 00:29:21.016 So these are the most important

NOTE Confidence: 0.83237594

00:29:21.016 --> 00:29:23.254 recent advances in the management

NOTE Confidence: 0.83237594

00:29:23.254 --> 00:29:24.574 of triple negative

NOTE Confidence: 0.82960683

00:29:24.580 --> 00:29:26.260 disease.

NOTE Confidence: 0.82960683

00:29:26.260 --> 00:29:29.276 Dr. Lajos Pusztai as a professor of Medicine and
medical

NOTE Confidence: 0.82960683

00:29:29.276 --> 00:29:32.216 oncology at the Yale School of Medicine.

NOTE Confidence: 0.82960683

00:29:32.220 --> 00:29:33.988 If you have questions,

NOTE Confidence: 0.82960683

00:29:33.988 --> 00:29:35.756 the address is canceranswers@yale.edu.

NOTE Confidence: 0.82960683

00:29:35.760 --> 00:29:37.512 And past editions of the program

NOTE Confidence: 0.82960683

00:29:37.512 --> 00:29:39.611 are available in audio and written

NOTE Confidence: 0.82960683

00:29:39.611 --> 00:29:40.919 form at Yalecancercenter.org.

NOTE Confidence: 0.82960683

00:29:40.920 --> 00:29:43.472 We hope you'll join us next week to

NOTE Confidence: 0.82960683

00:29:43.472 --> 00:29:45.958 learn more about the fight against

NOTE Confidence: 0.82960683

00:29:45.958 --> 00:29:48.622 cancer here on Connecticut public radio.