

WEBVTT

00:00:00.000 --> 00:00:03.210 Funding for Yale Cancer Answers is

NOTE Confidence: 0.815846272727273

00:00:03.210 --> 00:00:06.250 provided by Smilow Cancer Hospital.

NOTE Confidence: 0.815846272727273

00:00:06.250 --> 00:00:08.455 Welcome to Yale Cancer Answers

NOTE Confidence: 0.815846272727273

00:00:08.455 --> 00:00:10.219 with Doctor Anees Chagpar.

NOTE Confidence: 0.815846272727273

00:00:10.220 --> 00:00:12.085 Yale Cancer Answers features the

NOTE Confidence: 0.815846272727273

00:00:12.085 --> 00:00:13.950 latest information on cancer care

NOTE Confidence: 0.815846272727273

00:00:14.014 --> 00:00:15.486 by welcoming oncologists and

NOTE Confidence: 0.815846272727273

00:00:15.486 --> 00:00:17.694 specialists who are on the forefront

NOTE Confidence: 0.815846272727273

00:00:17.751 --> 00:00:19.449 of the battle to fight cancer.

NOTE Confidence: 0.815846272727273

00:00:19.450 --> 00:00:21.260 This week it's a conversation

NOTE Confidence: 0.815846272727273

00:00:21.260 --> 00:00:23.070 about cancer prevention in low

NOTE Confidence: 0.815846272727273

00:00:23.135 --> 00:00:25.180 to middle income countries with

NOTE Confidence: 0.815846272727273

00:00:25.180 --> 00:00:27.229 Doctor Raul Hernandez Ramirez. Dr.

NOTE Confidence: 0.815846272727273

00:00:27.229 --> 00:00:29.274 Hernandez Ramirez is a research

NOTE Confidence: 0.815846272727273

00:00:29.274 --> 00:00:30.910 scientist in Biostatistics at

NOTE Confidence: 0.815846272727273

00:00:30.981 --> 00:00:33.027 the Yale School of Public Health.
NOTE Confidence: 0.815846272727273

00:00:33.030 --> 00:00:34.992 Doctor Chagpar is a professor of
NOTE Confidence: 0.815846272727273

00:00:34.992 --> 00:00:36.650 surgical oncology at Yale
NOTE Confidence: 0.815846272727273

00:00:36.650 --> 00:00:37.550 School of Medicine.
NOTE Confidence: 0.912082447826087

00:00:38.620 --> 00:00:40.342 Maybe we can start off
NOTE Confidence: 0.912082447826087

00:00:40.342 --> 00:00:42.363 by you telling us a little bit more
NOTE Confidence: 0.912082447826087

00:00:42.363 --> 00:00:44.168 about yourself and what it is you do.
NOTE Confidence: 0.62106609

00:00:44.500 --> 00:00:47.700 Sure, I'm a research scientist,
NOTE Confidence: 0.62106609

00:00:47.700 --> 00:00:51.298 I'm a chronic disease epidemiologist with training
in
NOTE Confidence: 0.62106609

00:00:51.300 --> 00:00:53.103 implementation science and
NOTE Confidence: 0.62106609

00:00:53.103 --> 00:00:54.906 multi level interventions.
NOTE Confidence: 0.62106609

00:00:54.910 --> 00:00:57.110 I have previous experience
NOTE Confidence: 0.62106609

00:00:57.110 --> 00:00:59.310 working in Mexico before coming
NOTE Confidence: 0.62106609

00:00:59.389 --> 00:01:01.549 to Yale to do my PhD and then
NOTE Confidence: 0.62106609

00:01:01.549 --> 00:01:05.170 become a research faculty, I spent
NOTE Confidence: 0.62106609

00:01:05.170 --> 00:01:08.128 several years working there in Mexico
NOTE Confidence: 0.62106609

00:01:08.128 --> 00:01:10.730 at the Nationalist public health.
NOTE Confidence: 0.62106609

00:01:10.730 --> 00:01:13.768 And regarding the focus of my research,
NOTE Confidence: 0.62106609

00:01:13.770 --> 00:01:16.633 two of my main areas are cancer
NOTE Confidence: 0.62106609

00:01:16.633 --> 00:01:17.860 and implementation science.
NOTE Confidence: 0.922317756153846

00:01:18.150 --> 00:01:21.806 So talk a little bit more about your
NOTE Confidence: 0.922317756153846

00:01:21.806 --> 00:01:24.763 research in terms of cancer prevention,
NOTE Confidence: 0.922317756153846

00:01:24.763 --> 00:01:27.328 the intersection of that with
NOTE Confidence: 0.922317756153846

00:01:27.328 --> 00:01:31.278 HIV and the work that you do in
NOTE Confidence: 0.922317756153846

00:01:31.278 --> 00:01:33.538 low to middle income countries.
NOTE Confidence: 0.774857810625

00:01:34.250 --> 00:01:38.831 A large part of my work
NOTE Confidence: 0.774857810625

00:01:38.831 --> 00:01:43.730 on Cancer Research has been focused on
NOTE Confidence: 0.774857810625

00:01:43.730 --> 00:01:46.508 cancer risk in people living with
NOTE Confidence: 0.774857810625

00:01:46.508 --> 00:01:49.773 HIV in North America. And also on
NOTE Confidence: 0.774857810625

00:01:49.773 --> 00:01:53.070 breast and risk factors for breast and
NOTE Confidence: 0.774857810625

00:01:53.167 --> 00:01:56.707 cervical cancer and now implementation

NOTE Confidence: 0.774857810625

00:01:56.707 --> 00:02:00.468 science in Mexican women

NOTE Confidence: 0.774857810625

00:02:00.468 --> 00:02:02.754 and implementation sciences,

NOTE Confidence: 0.774857810625

00:02:02.760 --> 00:02:05.370 the study of methods to promote

NOTE Confidence: 0.774857810625

00:02:05.370 --> 00:02:06.675 the adoption of

NOTE Confidence: 0.774857810625

00:02:06.680 --> 00:02:10.598 an integration of evidence based practices,

NOTE Confidence: 0.774857810625

00:02:10.600 --> 00:02:12.188 interventions and policies into

NOTE Confidence: 0.774857810625

00:02:12.188 --> 00:02:14.570 routine health care and public health

NOTE Confidence: 0.774857810625

00:02:14.631 --> 00:02:16.816 settings to improve population health.

NOTE Confidence: 0.774857810625

00:02:16.820 --> 00:02:18.780 So it is used to improve the adoption,

NOTE Confidence: 0.774857810625

00:02:18.780 --> 00:02:20.790 appropriate adoption, adaptation,

NOTE Confidence: 0.774857810625

00:02:20.790 --> 00:02:24.140 delivery, and sustainment of effective

NOTE Confidence: 0.774857810625

00:02:24.140 --> 00:02:26.919 interventions by providing clinics,

NOTE Confidence: 0.774857810625

00:02:26.920 --> 00:02:27.345 organizations,

NOTE Confidence: 0.774857810625

00:02:27.345 --> 00:02:29.895 communities and the systems of care.

NOTE Confidence: 0.774857810625

00:02:29.900 --> 00:02:31.840 Regarding the field of

NOTE Confidence: 0.774857810625

00:02:31.840 --> 00:02:33.295 implementation science and cancer,
NOTE Confidence: 0.774857810625

00:02:33.300 --> 00:02:35.700 I'm interested in adopting,
NOTE Confidence: 0.774857810625

00:02:35.700 --> 00:02:38.289 developing, and applying interventions
NOTE Confidence: 0.774857810625

00:02:38.289 --> 00:02:41.604 to increase the uptake of
NOTE Confidence: 0.774857810625

00:02:41.610 --> 00:02:42.789 interventions and practices
NOTE Confidence: 0.774857810625

00:02:42.789 --> 00:02:44.754 for cancer prevention and care,
NOTE Confidence: 0.774857810625

00:02:44.760 --> 00:02:47.936 including prevention strategies to
NOTE Confidence: 0.774857810625

00:02:47.936 --> 00:02:50.990 enable the delivery of those
NOTE Confidence: 0.774857810625

00:02:50.990 --> 00:02:52.798 interventions and their sustainment.
NOTE Confidence: 0.898577688333333

00:02:55.190 --> 00:02:56.630 That's pretty broad strokes.
NOTE Confidence: 0.898577688333333

00:02:56.630 --> 00:02:58.662 I mean, one would think that
NOTE Confidence: 0.898577688333333

00:02:58.662 --> 00:03:01.160 if we kind of break it down
NOTE Confidence: 0.898577688333333

00:03:01.160 --> 00:03:03.390 and think about breast cancer,
NOTE Confidence: 0.898577688333333

00:03:03.390 --> 00:03:05.545 so we know that breast
NOTE Confidence: 0.898577688333333

00:03:05.545 --> 00:03:07.700 cancer is the leading cause
NOTE Confidence: 0.898577688333333

00:03:07.700 --> 00:03:11.067 of cancer in women worldwide and one

NOTE Confidence: 0.898577688333333

00:03:11.067 --> 00:03:14.701 of the leading cancer causes of cancer

NOTE Confidence: 0.898577688333333

00:03:14.701 --> 00:03:17.236 related death in women worldwide,

NOTE Confidence: 0.898577688333333

00:03:17.240 --> 00:03:20.250 often tying or competing for

NOTE Confidence: 0.898577688333333

00:03:20.250 --> 00:03:23.260 first place with cervical cancer.

NOTE Confidence: 0.898577688333333

00:03:23.260 --> 00:03:25.702 But the management of breast cancer

NOTE Confidence: 0.898577688333333

00:03:25.702 --> 00:03:28.274 is very different and the screening

NOTE Confidence: 0.898577688333333

00:03:28.274 --> 00:03:30.449 availability is very different and

NOTE Confidence: 0.898577688333333

00:03:30.449 --> 00:03:33.345 the stage at which breast cancer is

NOTE Confidence: 0.898577688333333

00:03:33.345 --> 00:03:36.076 picked up is very different in the US

NOTE Confidence: 0.898577688333333

00:03:36.076 --> 00:03:38.400 as is in many low to middle income

NOTE Confidence: 0.898577688333333

00:03:38.400 --> 00:03:41.502 countries where the ubiquity

NOTE Confidence: 0.898577688333333

00:03:41.502 --> 00:03:44.552 of mammography is not the same as

NOTE Confidence: 0.898577688333333

00:03:44.552 --> 00:03:48.117 it is in the US and it may not be

NOTE Confidence: 0.898577688333333

00:03:48.117 --> 00:03:49.973 that mammography is necessarily

NOTE Confidence: 0.898577688333333

00:03:49.973 --> 00:03:53.280 the be all and end all in low

NOTE Confidence: 0.898577688333333

00:03:53.280 --> 00:03:54.808 to middle income countries.
NOTE Confidence: 0.898577688333333

00:03:54.810 --> 00:03:56.805 Can you talk a little bit more
NOTE Confidence: 0.898577688333333

00:03:56.805 --> 00:03:58.796 about kind of how you've analyzed
NOTE Confidence: 0.898577688333333

00:03:58.796 --> 00:04:00.932 the problem of breast cancer in
NOTE Confidence: 0.898577688333333

00:04:00.932 --> 00:04:03.107 low to middle income countries,
NOTE Confidence: 0.898577688333333

00:04:03.110 --> 00:04:05.864 versus how it is in the United States
NOTE Confidence: 0.898577688333333

00:04:05.864 --> 00:04:08.486 and what you think the key issues
NOTE Confidence: 0.898577688333333

00:04:08.490 --> 00:04:10.443 are and perhaps some of the
NOTE Confidence: 0.898577688333333

00:04:10.443 --> 00:04:12.317 strategies that you've used to address it.
NOTE Confidence: 0.89761975

00:04:13.910 --> 00:04:17.770 Yeah, so most of my
NOTE Confidence: 0.704819458181818

00:04:19.790 --> 00:04:23.174 research in middle income and lower
NOTE Confidence: 0.704819458181818

00:04:23.174 --> 00:04:26.060 middle income countries in Mexico
NOTE Confidence: 0.704819458181818

00:04:26.060 --> 00:04:29.525 in the terms of breast cancer
NOTE Confidence: 0.704819458181818

00:04:29.530 --> 00:04:31.830 was focused on finding risk
NOTE Confidence: 0.704819458181818

00:04:31.830 --> 00:04:33.670 factors for breast cancer,
NOTE Confidence: 0.704819458181818

00:04:33.670 --> 00:04:38.270 but I would like to talk more given

NOTE Confidence: 0.704819458181818

00:04:38.270 --> 00:04:40.395 the different points that you

NOTE Confidence: 0.704819458181818

00:04:40.395 --> 00:04:42.520 mentioned in your question about

NOTE Confidence: 0.704819458181818

00:04:42.592 --> 00:04:44.650 my work on cervical cancer.

00:04:45.736 --> 00:04:47.546 In cervical cancer

NOTE Confidence: 0.704819458181818

00:04:47.546 --> 00:04:49.859 like in other cancers as you

NOTE Confidence: 0.704819458181818

00:04:49.859 --> 00:04:51.379 were mentioning there is

NOTE Confidence: 0.704819458181818

00:04:51.380 --> 00:04:52.348 large variability.

00:04:53.316 --> 00:04:54.768 Across the globe,

NOTE Confidence: 0.704819458181818

00:04:54.770 --> 00:04:56.986 there is significant variability

NOTE Confidence: 0.704819458181818

00:04:56.986 --> 00:04:59.202 in terms of implementing

NOTE Confidence: 0.704819458181818

00:04:59.202 --> 00:05:01.080 cancer control programs.

NOTE Confidence: 0.853335233333333

00:05:03.580 --> 00:05:06.538 In low and middle income countries

NOTE Confidence: 0.853335233333333

00:05:06.540 --> 00:05:08.124 cancer is frequently

NOTE Confidence: 0.853335233333333

00:05:08.124 --> 00:05:10.104 diagnosed at advanced stages and

NOTE Confidence: 0.853335233333333

00:05:10.104 --> 00:05:12.140 that could be for breast cancer,

NOTE Confidence: 0.853335233333333

00:05:12.140 --> 00:05:15.560 as well as for cervical cancer.

NOTE Confidence: 0.853335233333333

00:05:15.560 --> 00:05:20.180 And the case of low income countries
NOTE Confidence: 0.802233285

00:05:22.530 --> 00:05:24.402 there are common barriers
NOTE Confidence: 0.802233285

00:05:24.402 --> 00:05:26.274 that are barriers that
NOTE Confidence: 0.802233285

00:05:26.280 --> 00:05:27.715 are not necessarily generalizable
NOTE Confidence: 0.802233285

00:05:27.715 --> 00:05:30.142 but they are kind of common that
NOTE Confidence: 0.802233285

00:05:30.142 --> 00:05:32.014 they will be happening and depending
NOTE Confidence: 0.802233285

00:05:32.014 --> 00:05:33.837 irregardless of whether it's breast cancer or cervical cancer.
NOTE Confidence: 0.802233285

00:05:37.230 --> 00:05:39.638 And these include the lack of awareness
NOTE Confidence: 0.802233285

00:05:39.638 --> 00:05:42.390 of the general populations and providers,
NOTE Confidence: 0.802233285

00:05:42.390 --> 00:05:44.826 lack of access to diagnostic facilities,
NOTE Confidence: 0.802233285

00:05:44.830 --> 00:05:46.621 long distance travel,
NOTE Confidence: 0.802233285

00:05:46.621 --> 00:05:50.203 time to locations with cancer services.
NOTE Confidence: 0.802233285

00:05:50.210 --> 00:05:52.650 And difficulties to implement conventional
NOTE Confidence: 0.802233285

00:05:52.650 --> 00:05:55.090 screening and other cancer prevention
NOTE Confidence: 0.802233285

00:05:55.154 --> 00:05:57.640 control methods due to the lack of
NOTE Confidence: 0.802233285

00:05:57.640 --> 00:05:58.848 financial resources and expertise,
NOTE Confidence: 0.802233285

00:05:58.850 --> 00:06:01.142 and there are also sociocultural factors
NOTE Confidence: 0.802233285

00:06:01.142 --> 00:06:04.318 and stigma in the case of cervical cancer.
NOTE Confidence: 0.802233285

00:06:04.320 --> 00:06:06.510 Despite being nearly fully preventable,
NOTE Confidence: 0.802233285

00:06:06.510 --> 00:06:08.850 large disparities in incidence and
NOTE Confidence: 0.802233285

00:06:08.850 --> 00:06:11.190 mortality exist globally and domestically.
NOTE Confidence: 0.802233285

00:06:11.190 --> 00:06:14.158 It is the fourth most common cancer
NOTE Confidence: 0.804879284

00:06:16.250 --> 00:06:19.190 and most common cause of
NOTE Confidence: 0.804879284

00:06:19.190 --> 00:06:22.130 cancer death in the world.
NOTE Confidence: 0.804879284

00:06:22.130 --> 00:06:24.839 But 85% of those deaths occur
NOTE Confidence: 0.804879284

00:06:24.839 --> 00:06:28.210 in low and middle income countries.
NOTE Confidence: 0.804879284

00:06:28.210 --> 00:06:31.518 Then regarding screening also,
NOTE Confidence: 0.804879284

00:06:31.518 --> 00:06:32.830 they desire large variability,
NOTE Confidence: 0.804879284

00:06:32.830 --> 00:06:36.260 with about 3 out of five women having
NOTE Confidence: 0.804879284

00:06:36.260 --> 00:06:38.410 cervical cancer screening ever in
NOTE Confidence: 0.804879284

00:06:38.410 --> 00:06:41.429 their lives in high income countries,

NOTE Confidence: 0.804879284

00:06:41.430 --> 00:06:43.941 while it's only about 2 or less out of

NOTE Confidence: 0.804879284

00:06:43.941 --> 00:06:46.308 five women that have ever been screened

NOTE Confidence: 0.804879284

00:06:46.308 --> 00:06:48.830 in low and middle income countries,

NOTE Confidence: 0.804879284

00:06:48.830 --> 00:06:51.620 with some countries like subsaharan

NOTE Confidence: 0.804879284

00:06:51.620 --> 00:06:53.852 Africa presenting the lowest

NOTE Confidence: 0.804879284

00:06:53.852 --> 00:06:56.710 coverage with a prevalence very low.

NOTE Confidence: 0.804879284

00:06:56.710 --> 00:07:00.070 At a medium prevalence of 17%

NOTE Confidence: 0.804879284

00:07:00.070 --> 00:07:01.854 coverage of screening.

NOTE Confidence: 0.804879284

00:07:07.260 --> 00:07:09.731 Women in Mexico are three times

NOTE Confidence: 0.864571077391304

00:07:09.731 --> 00:07:12.200 more likely to die from cervical cancer

NOTE Confidence: 0.864571077391304

00:07:12.200 --> 00:07:15.238 than in the US but even within the US,

NOTE Confidence: 0.864571077391304

00:07:15.240 --> 00:07:17.550 US Hispanic women are more

NOTE Confidence: 0.864571077391304

00:07:17.550 --> 00:07:19.398 likely to be diagnosed with

NOTE Confidence: 0.864571077391304

00:07:19.400 --> 00:07:22.166 and die from cervical cancer

NOTE Confidence: 0.864571077391304

00:07:22.166 --> 00:07:25.120 than US non Hispanic white women.

NOTE Confidence: 0.864571077391304

00:07:25.120 --> 00:07:28.088 In fact, in Mexico cervical cancer is the
NOTE Confidence: 0.864571077391304

00:07:28.088 --> 00:07:31.216 second most common cause of cancer mortality
NOTE Confidence: 0.864571077391304

00:07:31.220 --> 00:07:33.600 among women, while in contrast,
NOTE Confidence: 0.864571077391304

00:07:33.600 --> 00:07:38.384 is the 12th most common cause of cancer
NOTE Confidence: 0.864571077391304

00:07:38.384 --> 00:07:41.430 mortality among women in the US.
NOTE Confidence: 0.864571077391304

00:07:41.430 --> 00:07:43.410 And screening for cervical
NOTE Confidence: 0.864571077391304

00:07:43.410 --> 00:07:44.895 cancer is effective.
NOTE Confidence: 0.864571077391304

00:07:44.900 --> 00:07:48.316 The Pap smear and HPV are evidence
NOTE Confidence: 0.864571077391304

00:07:48.316 --> 00:07:51.530 based HPV testing are evidence
NOTE Confidence: 0.864571077391304

00:07:51.530 --> 00:07:54.008 based preventive interventions.
NOTE Confidence: 0.864571077391304

00:07:54.010 --> 00:07:56.838 However, in the case of Pap smear,
NOTE Confidence: 0.864571077391304

00:07:56.840 --> 00:07:59.430 unlike in high income countries
NOTE Confidence: 0.864571077391304

00:07:59.430 --> 00:08:01.502 where cervical cancer screening
NOTE Confidence: 0.864571077391304

00:08:01.502 --> 00:08:03.109 programs have resulted
NOTE Confidence: 0.864571077391304

00:08:03.110 --> 00:08:05.090 in a dramatic decrease in incidence
NOTE Confidence: 0.864571077391304

00:08:05.090 --> 00:08:07.159 of mortality in Mexico and other

NOTE Confidence: 0.864571077391304
00:08:07.159 --> 00:08:08.869 low and middle income countries,
NOTE Confidence: 0.864571077391304
00:08:08.870 --> 00:08:10.615 the impact of these programs
NOTE Confidence: 0.864571077391304
00:08:10.615 --> 00:08:12.360 has thus far been limited.
NOTE Confidence: 0.5884606025
00:08:14.550 --> 00:08:19.430 Colposcopy as well
NOTE Confidence: 0.5884606025
00:08:22.880 --> 00:08:24.570 for cervical cancer screening
NOTE Confidence: 0.5884606025
00:08:24.570 --> 00:08:27.508 as I say is a pap smear and also
NOTE Confidence: 0.5884606025
00:08:27.508 --> 00:08:29.999 the HPV test.
NOTE Confidence: 0.5884606025
00:08:30.000 --> 00:08:32.742 And in other places in the
NOTE Confidence: 0.5884606025
00:08:32.742 --> 00:08:35.035 world there is also the visual
NOTE Confidence: 0.5884606025
00:08:35.035 --> 00:08:36.503 inspection with acetic acid.
NOTE Confidence: 0.755419957384615
00:08:36.900 --> 00:08:39.372 So let me pause here for a moment
NOTE Confidence: 0.755419957384615
00:08:39.372 --> 00:08:41.860 and just ask a question, which is,
NOTE Confidence: 0.755419957384615
00:08:41.860 --> 00:08:44.240 you know, before we get into screening,
NOTE Confidence: 0.755419957384615
00:08:44.240 --> 00:08:45.257 you had mentioned,
NOTE Confidence: 0.755419957384615
00:08:45.257 --> 00:08:47.291 I mean certainly as an epidemiologist
NOTE Confidence: 0.755419957384615

00:08:47.291 --> 00:08:49.138 you're interested in risk factors.
NOTE Confidence: 0.755419957384615

00:08:49.140 --> 00:08:51.036 One of the interesting points that
NOTE Confidence: 0.755419957384615

00:08:51.036 --> 00:08:53.388 you just raised is not only is
NOTE Confidence: 0.755419957384615

00:08:53.388 --> 00:08:55.088 mortality of cervical cancer higher
NOTE Confidence: 0.755419957384615

00:08:55.088 --> 00:08:57.089 in Mexico than it is in the US,
NOTE Confidence: 0.755419957384615

00:08:57.090 --> 00:08:58.386 three times higher,
NOTE Confidence: 0.755419957384615

00:08:58.386 --> 00:09:00.978 but Hispanic women in the US
NOTE Confidence: 0.755419957384615

00:09:00.980 --> 00:09:03.542 also have a higher rate of
NOTE Confidence: 0.755419957384615

00:09:03.542 --> 00:09:05.540 mortality from cervical cancer than
NOTE Confidence: 0.755419957384615

00:09:05.540 --> 00:09:08.024 the rest of the American population.
NOTE Confidence: 0.755419957384615

00:09:08.030 --> 00:09:11.830 So that raises the issue of
NOTE Confidence: 0.755419957384615

00:09:11.830 --> 00:09:14.700 is there a genetic component
NOTE Confidence: 0.755419957384615

00:09:14.700 --> 00:09:18.324 here in terms of race, slash,
NOTE Confidence: 0.755419957384615

00:09:18.324 --> 00:09:19.078 ethnicity,
NOTE Confidence: 0.755419957384615

00:09:19.078 --> 00:09:24.356 or is this really more grounded in
NOTE Confidence: 0.755419957384615

00:09:24.356 --> 00:09:28.198 sociocultural and socioeconomic factors?

NOTE Confidence: 0.86800752

00:09:29.720 --> 00:09:32.135 Yeah, I believe it will be more

NOTE Confidence: 0.86800752

00:09:32.135 --> 00:09:34.165 grounded in those socio economical

NOTE Confidence: 0.86800752

00:09:34.165 --> 00:09:36.475 and cultural factors as well,

NOTE Confidence: 0.86800752

00:09:36.480 --> 00:09:39.555 and also related to cancer

NOTE Confidence: 0.86800752

00:09:39.555 --> 00:09:42.630 disparities that exist and stigma.

NOTE Confidence: 0.86800752

00:09:42.630 --> 00:09:45.006 From the perspective of these patients,

NOTE Confidence: 0.86800752

00:09:45.010 --> 00:09:47.705 but also the services that are being

NOTE Confidence: 0.86800752

00:09:47.705 --> 00:09:50.277 provided that may not reach the

NOTE Confidence: 0.86800752

00:09:50.277 --> 00:09:52.507 populations that need those services

NOTE Confidence: 0.86800752

00:09:52.510 --> 00:09:55.730 and in the case of risk factors,

NOTE Confidence: 0.86800752

00:09:55.730 --> 00:09:57.080 for cervical cancer

NOTE Confidence: 0.763100619

00:09:59.440 --> 00:10:01.790 one of the preventive interventions

NOTE Confidence: 0.763100619

00:10:01.790 --> 00:10:05.440 is the vaccination with HPV, but

NOTE Confidence: 0.763100619

00:10:05.440 --> 00:10:07.974 since that occurs at early ages,

NOTE Confidence: 0.763100619

00:10:07.980 --> 00:10:10.600 you have older populations of

NOTE Confidence: 0.763100619

00:10:10.600 --> 00:10:13.858 women that were not
NOTE Confidence: 0.763100619

00:10:13.858 --> 00:10:16.573 vaccinated when they were younger
NOTE Confidence: 0.763100619

00:10:16.573 --> 00:10:20.080 and that they still need to have
NOTE Confidence: 0.763100619

00:10:20.080 --> 00:10:23.200 the basic prevention screening with
NOTE Confidence: 0.763100619

00:10:23.200 --> 00:10:27.140 this cytology and follow-up care with
NOTE Confidence: 0.763100619

00:10:27.140 --> 00:10:31.240 colposcopy to diagnose and treat.
00:10:33.410 --> 00:10:37.239 And those are some of those services
NOTE Confidence: 0.763100619

00:10:37.240 --> 00:10:39.228 we in the US and also when
NOTE Confidence: 0.763100619

00:10:39.228 --> 00:10:40.939 comparing the US with Mexico,
NOTE Confidence: 0.763100619

00:10:40.940 --> 00:10:45.840 the rates of those services are lower.
NOTE Confidence: 0.763100619

00:10:45.840 --> 00:10:48.800 Which leads to a delay in
NOTE Confidence: 0.763100619

00:10:48.800 --> 00:10:52.225 diagnosis and detecting cancers and
NOTE Confidence: 0.763100619

00:10:52.225 --> 00:10:55.706 therefore detecting cancers at higher stages,
NOTE Confidence: 0.763100619

00:10:55.706 --> 00:10:56.442 late stages,
NOTE Confidence: 0.763100619

00:10:56.442 --> 00:10:59.269 in which they are more difficult to treat.
NOTE Confidence: 0.938383551428572

00:11:00.510 --> 00:11:03.506 You know, one of the interesting things,
NOTE Confidence: 0.938383551428572

00:11:03.510 --> 00:11:06.198 one of the really wonderful things
NOTE Confidence: 0.938383551428572

00:11:06.198 --> 00:11:09.068 that was reported by the American
NOTE Confidence: 0.938383551428572

00:11:09.068 --> 00:11:12.050 Cancer Society just recently was a
NOTE Confidence: 0.938383551428572

00:11:12.050 --> 00:11:14.920 dramatic fall in the mortality from
NOTE Confidence: 0.938383551428572

00:11:14.920 --> 00:11:17.370 cervical cancer in this country,
NOTE Confidence: 0.938383551428572

00:11:17.370 --> 00:11:19.710 which they felt was in large
NOTE Confidence: 0.938383551428572

00:11:19.710 --> 00:11:22.070 part due to the vaccine.
NOTE Confidence: 0.938383551428572

00:11:22.070 --> 00:11:25.042 One of the things that you mentioned was,
NOTE Confidence: 0.938383551428572

00:11:25.042 --> 00:11:27.570 you know, financial considerations,
NOTE Confidence: 0.938383551428572

00:11:27.570 --> 00:11:28.718 access considerations.
NOTE Confidence: 0.938383551428572

00:11:28.718 --> 00:11:31.588 Certainly the health care
NOTE Confidence: 0.938383551428572

00:11:31.588 --> 00:11:34.516 workforce in low to middle
NOTE Confidence: 0.938383551428572

00:11:34.516 --> 00:11:36.748 income countries is substantially
NOTE Confidence: 0.938383551428572

00:11:36.748 --> 00:11:39.639 reduced when compared to the US.
NOTE Confidence: 0.938383551428572

00:11:39.640 --> 00:11:42.340 It may be more difficult
NOTE Confidence: 0.938383551428572

00:11:42.340 --> 00:11:45.040 for people to access care.

NOTE Confidence: 0.938383551428572
00:11:45.040 --> 00:11:49.360 But in the US, the vaccine is available.
NOTE Confidence: 0.938383551428572
00:11:49.360 --> 00:11:52.216 In the US, Pap smears are available.
NOTE Confidence: 0.938383551428572
00:11:52.220 --> 00:11:56.276 So why do you think it is that
NOTE Confidence: 0.938383551428572
00:11:56.280 --> 00:12:00.490 Hispanic women in the US
NOTE Confidence: 0.938383551428572
00:12:00.490 --> 00:12:02.354 still have higher rates?
NOTE Confidence: 0.938383551428572
00:12:02.354 --> 00:12:06.157 Talk more about the
NOTE Confidence: 0.938383551428572
00:12:06.157 --> 00:12:07.865 sociocultural factors that
NOTE Confidence: 0.938383551428572
00:12:07.865 --> 00:12:11.162 you think may play in or do you
NOTE Confidence: 0.938383551428572
00:12:11.162 --> 00:12:13.316 think that this is predicated also
NOTE Confidence: 0.938383551428572
00:12:13.316 --> 00:12:15.887 on the fact that Hispanic women
NOTE Confidence: 0.938383551428572
00:12:15.887 --> 00:12:18.365 there may be confounding by the
NOTE Confidence: 0.938383551428572
00:12:18.365 --> 00:12:21.045 fact that they tend to be of lower
NOTE Confidence: 0.938383551428572
00:12:21.045 --> 00:12:22.857 socioeconomic status and
NOTE Confidence: 0.938383551428572
00:12:22.857 --> 00:12:25.647 may still even though there are
NOTE Confidence: 0.938383551428572
00:12:25.647 --> 00:12:28.020 such services here in the US,
NOTE Confidence: 0.938383551428572

00:12:28.020 --> 00:12:30.436 that they access them at a lower rate.
NOTE Confidence: 0.938383551428572

00:12:30.440 --> 00:12:33.408 And perhaps you can talk a little bit
NOTE Confidence: 0.938383551428572

00:12:33.408 --> 00:12:35.710 about the comparison between Hispanic
NOTE Confidence: 0.938383551428572

00:12:35.710 --> 00:12:39.230 women in the US versus in Mexico.
NOTE Confidence: 0.7893529775

00:12:40.720 --> 00:12:45.936 I think that part of reduced access is
00:12:50.294 --> 00:12:53.300 socioeconomical aspects as well as
NOTE Confidence: 0.7893529775

00:12:53.300 --> 00:12:56.468 other things related to
NOTE Confidence: 0.7893529775

00:12:56.470 --> 00:12:58.590 knowledge of cervical cancer
NOTE Confidence: 0.7893529775

00:12:58.590 --> 00:13:01.261 and this screening test and the
NOTE Confidence: 0.7893529775

00:13:01.261 --> 00:13:03.661 benefit of getting them performed
NOTE Confidence: 0.7893529775

00:13:03.661 --> 00:13:05.581 for preventing cervical cancer
NOTE Confidence: 0.7893529775

00:13:05.658 --> 00:13:07.986 and the fear of the test as well.
NOTE Confidence: 0.7893529775

00:13:07.990 --> 00:13:10.461 So those kinds of things may be
NOTE Confidence: 0.7893529775

00:13:10.461 --> 00:13:12.512 interrelated in some way with a
NOTE Confidence: 0.7893529775

00:13:12.512 --> 00:13:14.342 low literacy and in some cases
NOTE Confidence: 0.7893529775

00:13:14.342 --> 00:13:16.314 in women and Hispanic women in
NOTE Confidence: 0.7893529775

00:13:16.314 --> 00:13:18.861 the US and loss of economical
NOTE Confidence: 0.7893529775

00:13:18.861 --> 00:13:24.940 status and also others related to that.
NOTE Confidence: 0.7893529775

00:13:24.940 --> 00:13:28.130 Also it has been reported barriers such as
NOTE Confidence: 0.723777854444444

00:13:30.530 --> 00:13:33.482 in low and middle income countries,
NOTE Confidence: 0.723777854444444

00:13:33.490 --> 00:13:37.085 it happens too that barriers relate to the
NOTE Confidence: 0.723777854444444

00:13:37.085 --> 00:13:39.992 distance or the travel time to get into
NOTE Confidence: 0.723777854444444

00:13:39.992 --> 00:13:42.890 the colposcopy because of having to lose
NOTE Confidence: 0.723777854444444

00:13:42.890 --> 00:13:45.375 time that women can be working or
NOTE Confidence: 0.723777854444444

00:13:45.375 --> 00:13:48.057 taking care of children
NOTE Confidence: 0.723777854444444

00:13:48.060 --> 00:13:50.890 if they support the family.
NOTE Confidence: 0.913588525

00:13:50.960 --> 00:13:53.496 Which brings us to the really good point,
NOTE Confidence: 0.913588525

00:13:53.500 --> 00:13:55.756 which we're going to pick up right after
NOTE Confidence: 0.913588525

00:13:55.756 --> 00:13:58.080 the break on the implementation science.
NOTE Confidence: 0.913588525

00:13:58.080 --> 00:14:00.780 We have a general idea of
NOTE Confidence: 0.913588525

00:14:00.780 --> 00:14:03.739 some of the factors that might be at play,
NOTE Confidence: 0.913588525

00:14:03.740 --> 00:14:05.308 but what can we really do about it?

NOTE Confidence: 0.758444
00:14:05.320 --> 00:14:07.714 Funding for Yale Cancer Answers
NOTE Confidence: 0.758444
00:14:07.714 --> 00:14:09.980 comes from Smilow Cancer Hospital,
NOTE Confidence: 0.758444
00:14:09.980 --> 00:14:11.548 where their Center for
NOTE Confidence: 0.758444
00:14:11.548 --> 00:14:12.724 Gastrointestinal Cancers provides
NOTE Confidence: 0.758444
00:14:12.724 --> 00:14:14.720 patients with a comprehensive,
NOTE Confidence: 0.758444
00:14:14.720 --> 00:14:16.190 multidisciplinary approach to
NOTE Confidence: 0.758444
00:14:16.190 --> 00:14:18.640 the treatment of GI cancers.
NOTE Confidence: 0.758444
00:14:18.640 --> 00:14:22.300 Learn more at smilowcancerhospital.org.
NOTE Confidence: 0.758444
00:14:22.300 --> 00:14:24.088 Breast cancer is one of the
NOTE Confidence: 0.758444
00:14:24.088 --> 00:14:25.700 most common cancers in women.
NOTE Confidence: 0.758444
00:14:25.700 --> 00:14:27.011 In Connecticut alone,
NOTE Confidence: 0.758444
00:14:27.011 --> 00:14:29.196 approximately 3500 women will be
NOTE Confidence: 0.758444
00:14:29.196 --> 00:14:31.658 diagnosed with breast cancer this year,
NOTE Confidence: 0.758444
00:14:31.660 --> 00:14:33.360 but there is hope thanks
NOTE Confidence: 0.758444
00:14:33.360 --> 00:14:34.380 to earlier detection,
NOTE Confidence: 0.758444

00:14:34.380 --> 00:14:35.511 non invasive treatments,
NOTE Confidence: 0.758444

00:14:35.511 --> 00:14:37.396 and the development of novel
NOTE Confidence: 0.758444

00:14:37.396 --> 00:14:39.358 therapies to fight breast cancer,
NOTE Confidence: 0.758444

00:14:39.360 --> 00:14:41.190 women should schedule a baseline
NOTE Confidence: 0.758444

00:14:41.190 --> 00:14:43.411 mammogram beginning at age 40 or
NOTE Confidence: 0.758444

00:14:43.411 --> 00:14:45.391 earlier if they have risk factors
NOTE Confidence: 0.758444

00:14:45.391 --> 00:14:46.920 associated with the disease.
NOTE Confidence: 0.758444

00:14:46.920 --> 00:14:48.624 With screening, early detection,
NOTE Confidence: 0.758444

00:14:48.624 --> 00:14:50.328 and a healthy lifestyle,
NOTE Confidence: 0.758444

00:14:50.330 --> 00:14:52.460 breast cancer can be defeated.
NOTE Confidence: 0.758444

00:14:52.460 --> 00:14:54.424 Clinical trials are currently
NOTE Confidence: 0.758444

00:14:54.424 --> 00:14:56.388 underway at federally designated
NOTE Confidence: 0.758444

00:14:56.388 --> 00:14:58.072 Comprehensive cancer centers such
NOTE Confidence: 0.758444

00:14:58.072 --> 00:15:00.305 as Yale Cancer Center and Smilow
NOTE Confidence: 0.758444

00:15:00.305 --> 00:15:02.399 Cancer Hospital to make innovative
NOTE Confidence: 0.758444

00:15:02.399 --> 00:15:04.534 new treatments available to patients.

NOTE Confidence: 0.758444
00:15:04.540 --> 00:15:06.259 Digital breast tomosynthesis,
NOTE Confidence: 0.758444
00:15:06.259 --> 00:15:07.978 or 3D mammography,
NOTE Confidence: 0.758444
00:15:07.980 --> 00:15:10.120 is also transforming breast
NOTE Confidence: 0.758444
00:15:10.120 --> 00:15:12.260 cancer screening by significantly
NOTE Confidence: 0.758444
00:15:12.260 --> 00:15:13.840 reducing unnecessary procedures
NOTE Confidence: 0.758444
00:15:13.840 --> 00:15:16.065 while picking up more cancers.
NOTE Confidence: 0.758444
00:15:16.070 --> 00:15:18.398 More information is available
NOTE Confidence: 0.758444
00:15:18.398 --> 00:15:19.412 at yalecancercenter.org.
NOTE Confidence: 0.758444
00:15:19.412 --> 00:15:22.004 You're listening to Connecticut public radio.
NOTE Confidence: 0.832589965
00:15:22.850 --> 00:15:24.908 Welcome back to Yale Cancer Answers.
NOTE Confidence: 0.832589965
00:15:24.910 --> 00:15:26.480 This is doctor Anees Chagpar
NOTE Confidence: 0.832589965
00:15:26.480 --> 00:15:28.506 and I'm joined tonight by my
NOTE Confidence: 0.832589965
00:15:28.506 --> 00:15:30.086 guest doctor Hernandez Ramirez.
NOTE Confidence: 0.832589965
00:15:30.090 --> 00:15:32.205 We're talking about cancer prevention
NOTE Confidence: 0.832589965
00:15:32.205 --> 00:15:34.779 in low to middle income countries
NOTE Confidence: 0.832589965

00:15:34.779 --> 00:15:37.495 and right before the break Raul was
NOTE Confidence: 0.832589965

00:15:37.495 --> 00:15:39.840 telling us more about cervical cancer
NOTE Confidence: 0.832589965

00:15:39.840 --> 00:15:42.656 which is a leading cause of cancer
NOTE Confidence: 0.832589965

00:15:42.656 --> 00:15:45.486 related mortality around the world.
NOTE Confidence: 0.832589965

00:15:45.490 --> 00:15:48.125 Interestingly, the rate of mortality
NOTE Confidence: 0.832589965

00:15:48.125 --> 00:15:51.120 has dropped here in the US.
NOTE Confidence: 0.832589965

00:15:51.120 --> 00:15:54.066 But one of the startling statistics
NOTE Confidence: 0.832589965

00:15:54.066 --> 00:15:57.981 that he raised is that not only is
NOTE Confidence: 0.832589965

00:15:57.981 --> 00:16:00.994 the mortality higher in Mexico
NOTE Confidence: 0.832589965

00:16:00.994 --> 00:16:03.879 amongst women with cervical cancer,
NOTE Confidence: 0.832589965

00:16:03.880 --> 00:16:06.150 but also among Hispanic women
NOTE Confidence: 0.832589965

00:16:06.150 --> 00:16:08.420 right here in the US.
NOTE Confidence: 0.832589965

00:16:08.420 --> 00:16:10.779 And there are a number of factors
NOTE Confidence: 0.832589965

00:16:10.779 --> 00:16:13.598 that go into that whether it's a
NOTE Confidence: 0.832589965

00:16:13.598 --> 00:16:15.758 distance to a treatment facility,
NOTE Confidence: 0.832589965

00:16:15.760 --> 00:16:18.336 whether it's the availability of PAP smears,

NOTE Confidence: 0.832589965

00:16:18.340 --> 00:16:21.370 whether it is low social

NOTE Confidence: 0.832589965

00:16:21.370 --> 00:16:22.672 Health literacy,

NOTE Confidence: 0.832589965

00:16:22.672 --> 00:16:25.276 whether it's low socioeconomic

NOTE Confidence: 0.832589965

00:16:25.276 --> 00:16:28.609 status or whether it's cultural

NOTE Confidence: 0.832589965

00:16:28.609 --> 00:16:32.401 factors that may impact the stigma

NOTE Confidence: 0.832589965

00:16:32.401 --> 00:16:35.050 associated with cervical cancer,

NOTE Confidence: 0.832589965

00:16:35.050 --> 00:16:37.644 whether it's lack of vaccines, many,

NOTE Confidence: 0.832589965

00:16:37.644 --> 00:16:39.768 many factors could go into this.

NOTE Confidence: 0.832589965

00:16:39.770 --> 00:16:40.382 So, Raul,

NOTE Confidence: 0.832589965

00:16:40.382 --> 00:16:42.524 the other thing that you had mentioned

NOTE Confidence: 0.832589965

00:16:42.524 --> 00:16:45.040 to us before the break is that you're

NOTE Confidence: 0.832589965

00:16:45.040 --> 00:16:47.709 very involved in implementation science this

NOTE Confidence: 0.832589965

00:16:47.710 --> 00:16:48.516 idea that

NOTE Confidence: 0.832589965

00:16:48.516 --> 00:16:51.337 you actually try to make a difference,

NOTE Confidence: 0.832589965

00:16:51.873 --> 00:16:55.071 and change some of the factors

NOTE Confidence: 0.832589965

00:16:55.071 --> 00:16:58.962 that are going on in populations
NOTE Confidence: 0.832589965

00:16:58.962 --> 00:17:01.140 to enhance prevention.
NOTE Confidence: 0.832589965

00:17:01.140 --> 00:17:03.163 So can you talk about some of
NOTE Confidence: 0.832589965

00:17:03.163 --> 00:17:04.717 the strategies that you've looked
NOTE Confidence: 0.832589965

00:17:04.717 --> 00:17:06.577 at and some of your results?
NOTE Confidence: 0.837360796666667

00:17:08.310 --> 00:17:10.980 Yeah, sure. So as you mentioned,
NOTE Confidence: 0.837360796666667

00:17:10.980 --> 00:17:13.349 there are several common variants, right,
NOTE Confidence: 0.837360796666667

00:17:13.349 --> 00:17:17.122 that have been reported in lower middle
NOTE Confidence: 0.837360796666667

00:17:17.122 --> 00:17:20.087 income countries and other places and
NOTE Confidence: 0.837360796666667

00:17:20.090 --> 00:17:22.058 what we have learned from
NOTE Confidence: 0.837360796666667

00:17:22.058 --> 00:17:24.616 this work that we are doing in
NOTE Confidence: 0.837360796666667

00:17:24.616 --> 00:17:27.396 low and middle income countries?
NOTE Confidence: 0.837360796666667

00:17:27.400 --> 00:17:29.650 And this is related to the
NOTE Confidence: 0.837360796666667

00:17:29.650 --> 00:17:31.150 implementation science part is
NOTE Confidence: 0.837360796666667

00:17:31.222 --> 00:17:33.557 that there are promising health
NOTE Confidence: 0.837360796666667

00:17:33.557 --> 00:17:35.892 interventions that have limited impact

NOTE Confidence: 0.837360796666667
00:17:35.900 --> 00:17:37.538 in low and middle income countries,
NOTE Confidence: 0.837360796666667
00:17:37.540 --> 00:17:40.080 because there are implementation problems,
NOTE Confidence: 0.837360796666667
00:17:40.080 --> 00:17:42.510 so there are barriers to implement
NOTE Confidence: 0.837360796666667
00:17:42.510 --> 00:17:44.880 these prevention and care practices,
NOTE Confidence: 0.837360796666667
00:17:44.880 --> 00:17:46.284 even the basic ones.
NOTE Confidence: 0.837360796666667
00:17:46.284 --> 00:17:48.039 And that's the key challenge
NOTE Confidence: 0.837360796666667
00:17:48.039 --> 00:17:50.278 to reducing the cancer burden,
NOTE Confidence: 0.837360796666667
00:17:50.280 --> 00:17:51.906 the cervical cancer burden in particular
NOTE Confidence: 0.837360796666667
00:17:51.906 --> 00:17:53.840 in low and middle income countries.
NOTE Confidence: 0.837360796666667
00:17:53.840 --> 00:17:57.235 So the barriers need to be identified
NOTE Confidence: 0.837360796666667
00:17:57.235 --> 00:18:00.383 and addressed and that is where
NOTE Confidence: 0.837360796666667
00:18:00.383 --> 00:18:03.198 implementation science plays a role.
NOTE Confidence: 0.837360796666667
00:18:03.200 --> 00:18:05.452 Implementation science can help
NOTE Confidence: 0.837360796666667
00:18:05.452 --> 00:18:08.267 to identify what are those
NOTE Confidence: 0.837360796666667
00:18:08.270 --> 00:18:10.938 factors that influence implementation
NOTE Confidence: 0.837360796666667

00:18:10.938 --> 00:18:14.273 and then to try to
NOTE Confidence: 0.837360796666667

00:18:14.280 --> 00:18:17.496 select and develop intervention
NOTE Confidence: 0.837360796666667

00:18:17.496 --> 00:18:21.160 strategies to address those factors
NOTE Confidence: 0.837360796666667

00:18:21.160 --> 00:18:24.417 and enable implementation.
NOTE Confidence: 0.837360796666667

00:18:24.417 --> 00:18:27.196 My work in Mexico,
NOTE Confidence: 0.837360796666667

00:18:27.200 --> 00:18:29.570 we have seen that there are
NOTE Confidence: 0.837360796666667

00:18:29.570 --> 00:18:32.155 frequent gaps in screening and follow
NOTE Confidence: 0.837360796666667

00:18:32.155 --> 00:18:34.475 up care after abnormal screens.
NOTE Confidence: 0.837360796666667

00:18:34.480 --> 00:18:37.190 And the reason for those
NOTE Confidence: 0.837360796666667

00:18:37.190 --> 00:18:39.900 gaps may be addressable so
NOTE Confidence: 0.837360796666667

00:18:39.900 --> 00:18:42.204 to investigate the reasons for poor
NOTE Confidence: 0.837360796666667

00:18:42.204 --> 00:18:44.959 follow up of abnormal screen in Mexico,
NOTE Confidence: 0.837360796666667

00:18:44.960 --> 00:18:46.880 we have established a research group
NOTE Confidence: 0.837360796666667

00:18:46.880 --> 00:18:49.568 between a group of researchers at Yale and
NOTE Confidence: 0.837360796666667

00:18:49.570 --> 00:18:51.834 Mexico's National Autonomous University,
NOTE Confidence: 0.837360796666667

00:18:51.834 --> 00:18:55.230 UNAM and the National Institute of

NOTE Confidence: 0.837360796666667
00:18:55.308 --> 00:18:57.798 Public Health in Spain and Mexico.
NOTE Confidence: 0.837360796666667
00:18:57.800 --> 00:18:59.697 And we started by looking at data
NOTE Confidence: 0.837360796666667
00:18:59.697 --> 00:19:01.964 from a group of patients that were
NOTE Confidence: 0.837360796666667
00:19:01.964 --> 00:19:03.704 recommended to get a colposcopy
NOTE Confidence: 0.837360796666667
00:19:03.704 --> 00:19:05.876 after testing positive for HPV.
NOTE Confidence: 0.837360796666667
00:19:07.820 --> 00:19:09.624 In some screening demonstration
NOTE Confidence: 0.837360796666667
00:19:09.624 --> 00:19:12.330 studies in Mexico Clinic that
NOTE Confidence: 0.837360796666667
00:19:12.400 --> 00:19:14.620 was among uninsured populations.
NOTE Confidence: 0.837360796666667
00:19:14.620 --> 00:19:17.386 And we have identified factors positively
NOTE Confidence: 0.837360796666667
00:19:17.386 --> 00:19:20.818 linked to follow-up of positive HPV results.
NOTE Confidence: 0.837360796666667
00:19:20.820 --> 00:19:23.130 And those include having a history
NOTE Confidence: 0.837360796666667
00:19:23.130 --> 00:19:25.660 of PAP and providing contact data.
NOTE Confidence: 0.837360796666667
00:19:25.660 --> 00:19:28.435 Those were associated with greater
NOTE Confidence: 0.837360796666667
00:19:28.435 --> 00:19:31.210 adherence to obtaining screening test
NOTE Confidence: 0.837360796666667
00:19:31.293 --> 00:19:33.838 results before getting a
NOTE Confidence: 0.837360796666667

00:19:33.840 --> 00:19:36.195 colposcopy appointment we may need
NOTE Confidence: 0.837360796666667

00:19:36.195 --> 00:19:39.100 to get their test results.
NOTE Confidence: 0.837360796666667

00:19:39.100 --> 00:19:41.385 Then also the availability of
NOTE Confidence: 0.837360796666667

00:19:41.385 --> 00:19:43.213 family medicine service and
NOTE Confidence: 0.837360796666667

00:19:43.220 --> 00:19:46.550 being attended by nurses with
NOTE Confidence: 0.837360796666667

00:19:46.550 --> 00:19:48.986 a good amount of experience was
NOTE Confidence: 0.837360796666667

00:19:48.986 --> 00:19:51.128 associated with greater adherence to
NOTE Confidence: 0.837360796666667

00:19:51.128 --> 00:19:52.928 obtaining those screened results.
NOTE Confidence: 0.837360796666667

00:19:52.930 --> 00:19:53.802 In contrast,
NOTE Confidence: 0.837360796666667

00:19:53.802 --> 00:19:55.982 as mentioned before also observing
NOTE Confidence: 0.837360796666667

00:19:55.982 --> 00:19:57.290 in other places,
NOTE Confidence: 0.837360796666667

00:19:57.290 --> 00:19:59.090 the longer travel time to colposcopy
NOTE Confidence: 0.837360796666667

00:19:59.090 --> 00:20:01.439 clinic were linked to decreased attendance.
NOTE Confidence: 0.837360796666667

00:20:01.440 --> 00:20:05.115 So interventions to improve follow
NOTE Confidence: 0.837360796666667

00:20:05.115 --> 00:20:08.148 up for those with abnormal results can
NOTE Confidence: 0.837360796666667

00:20:08.148 --> 00:20:10.899 be developed based on this information.

NOTE Confidence: 0.837360796666667
00:20:10.900 --> 00:20:13.528 Such as strategies that can be
NOTE Confidence: 0.837360796666667
00:20:13.528 --> 00:20:15.780 used to secure contact data.
NOTE Confidence: 0.837360796666667
00:20:15.780 --> 00:20:16.321 Also,
NOTE Confidence: 0.837360796666667
00:20:16.321 --> 00:20:19.026 there could be educational interventions,
NOTE Confidence: 0.837360796666667
00:20:21.263 --> 00:20:23.958 skills relative to the cervical
NOTE Confidence: 0.837360796666667
00:20:23.958 --> 00:20:25.575 cancer program recommendations,
NOTE Confidence: 0.837360796666667
00:20:25.580 --> 00:20:27.640 especially emphasizing the importance
NOTE Confidence: 0.837360796666667
00:20:27.640 --> 00:20:30.215 of encouraging patients to promptly
NOTE Confidence: 0.837360796666667
00:20:30.215 --> 00:20:32.001 collect their screening results
NOTE Confidence: 0.837360796666667
00:20:32.001 --> 00:20:34.413 and get follow-up care if needed.
NOTE Confidence: 0.837360796666667
00:20:34.420 --> 00:20:34.946 And also,
NOTE Confidence: 0.837360796666667
00:20:34.946 --> 00:20:36.787 in the case of the travel or
NOTE Confidence: 0.837360796666667
00:20:36.787 --> 00:20:38.499 the long distance barrier,
NOTE Confidence: 0.837360796666667
00:20:38.500 --> 00:20:40.225 to provide travel support for
NOTE Confidence: 0.837360796666667
00:20:40.225 --> 00:20:41.950 patients that need a colposcopy
NOTE Confidence: 0.837360796666667

00:20:42.012 --> 00:20:44.028 or even taking the clinic to the
NOTE Confidence: 0.837360796666667

00:20:44.028 --> 00:20:45.749 communities with a mobile
NOTE Confidence: 0.837360796666667

00:20:45.750 --> 00:20:46.840 Scope clinic.
NOTE Confidence: 0.862430138571429

00:20:46.890 --> 00:20:48.990 Those sound like
NOTE Confidence: 0.862430138571429

00:20:48.990 --> 00:20:51.261 good strategies, but you know,
NOTE Confidence: 0.862430138571429

00:20:51.261 --> 00:20:54.123 as I've found with global oncology,
NOTE Confidence: 0.862430138571429

00:20:54.130 --> 00:20:56.555 there's always multiple layers to
NOTE Confidence: 0.862430138571429

00:20:56.555 --> 00:20:59.220 the onion and the puzzle always seems
NOTE Confidence: 0.862430138571429

00:20:59.220 --> 00:21:02.103 to be a little bit more complicated
NOTE Confidence: 0.862430138571429

00:21:02.103 --> 00:21:04.888 than you would initially anticipate.
NOTE Confidence: 0.862430138571429

00:21:04.890 --> 00:21:08.148 So for example, the idea of,
NOTE Confidence: 0.862430138571429

00:21:08.150 --> 00:21:10.360 you know, providing education for
NOTE Confidence: 0.862430138571429

00:21:10.360 --> 00:21:13.245 nurses so that they may understand
NOTE Confidence: 0.862430138571429

00:21:13.245 --> 00:21:16.215 cervical cancer and its prevention
NOTE Confidence: 0.862430138571429

00:21:16.220 --> 00:21:19.153 and treatment in a greater detail sounds
NOTE Confidence: 0.862430138571429

00:21:19.153 --> 00:21:22.424 like that's a great idea, and it is,

NOTE Confidence: 0.862430138571429
00:21:22.424 --> 00:21:25.830 but for many low to middle income countries
NOTE Confidence: 0.862430138571429
00:21:25.830 --> 00:21:28.368 the problem is not only the
NOTE Confidence: 0.862430138571429
00:21:28.368 --> 00:21:29.637 lack of knowledge,
NOTE Confidence: 0.862430138571429
00:21:29.640 --> 00:21:32.000 it's the lack of nurses.
NOTE Confidence: 0.862430138571429
00:21:32.000 --> 00:21:36.095 So how do you get around issues like a
NOTE Confidence: 0.862430138571429
00:21:36.095 --> 00:21:39.912 lack of a workforce or a workforce that
NOTE Confidence: 0.862430138571429
00:21:39.912 --> 00:21:43.440 is so constrained because it is so small
NOTE Confidence: 0.862430138571429
00:21:43.440 --> 00:21:45.888 it doesn't meet World Health Organization
NOTE Confidence: 0.862430138571429
00:21:45.888 --> 00:21:48.776 guidelines for the number of nurses that
NOTE Confidence: 0.862430138571429
00:21:48.776 --> 00:21:50.756 are recommended for their population,
NOTE Confidence: 0.862430138571429
00:21:50.760 --> 00:21:53.525 and so these nurses are working so
NOTE Confidence: 0.862430138571429
00:21:53.525 --> 00:21:56.220 many hours that they may not have
NOTE Confidence: 0.862430138571429
00:21:56.220 --> 00:22:00.430 time to attend educational activities,
NOTE Confidence: 0.862430138571429
00:22:00.430 --> 00:22:02.870 on top of which, even if they did,
NOTE Confidence: 0.862430138571429
00:22:02.870 --> 00:22:05.926 they still are very limited in their numbers.
NOTE Confidence: 0.862430138571429

00:22:05.930 --> 00:22:08.498 How do you get around the fact that
NOTE Confidence: 0.862430138571429

00:22:08.498 --> 00:22:10.566 even if you provide transportation
NOTE Confidence: 0.862430138571429

00:22:10.566 --> 00:22:13.702 to patients to get to the clinic,
NOTE Confidence: 0.862430138571429

00:22:13.710 --> 00:22:15.430 that many of them,
NOTE Confidence: 0.862430138571429

00:22:15.430 --> 00:22:18.010 as you mentioned before the break,
NOTE Confidence: 0.862430138571429

00:22:18.095 --> 00:22:20.874 may be working maybe two or three
NOTE Confidence: 0.862430138571429

00:22:20.874 --> 00:22:23.970 jobs and maybe getting off from work,
NOTE Confidence: 0.862430138571429

00:22:23.970 --> 00:22:24.852 maybe another barrier.
NOTE Confidence: 0.862430138571429

00:22:24.852 --> 00:22:27.500 So how do you deal with all of these
NOTE Confidence: 0.862430138571429

00:22:27.500 --> 00:22:29.400 layers of the onion?
NOTE Confidence: 0.861293375

00:22:29.850 --> 00:22:31.658 Very good question.
NOTE Confidence: 0.861293375

00:22:31.658 --> 00:22:33.466 There are multiple different
NOTE Confidence: 0.861293375

00:22:33.466 --> 00:22:35.578 layers and because of that reason,
NOTE Confidence: 0.861293375

00:22:35.578 --> 00:22:37.390 we are now preparing to conduct
NOTE Confidence: 0.861293375

00:22:37.453 --> 00:22:39.513 research consisting of interviews and
NOTE Confidence: 0.861293375

00:22:39.513 --> 00:22:41.834 surveys with patients and providers

NOTE Confidence: 0.861293375

00:22:41.834 --> 00:22:44.690 to try to identify and understand

NOTE Confidence: 0.861293375

00:22:44.774 --> 00:22:47.309 how those different factors at

NOTE Confidence: 0.861293375

00:22:47.309 --> 00:22:49.844 different levels work

NOTE Confidence: 0.861293375

00:22:49.931 --> 00:22:52.506 that affects the individuals.

NOTE Confidence: 0.861293375

00:22:52.510 --> 00:22:53.308 In this case,

NOTE Confidence: 0.861293375

00:22:53.308 --> 00:22:54.638 the patients receive the services,

NOTE Confidence: 0.861293375

00:22:54.640 --> 00:22:57.346 but also what are those factors

NOTE Confidence: 0.861293375

00:22:57.346 --> 00:22:59.150 related to the providers

NOTE Confidence: 0.861293375

00:22:59.150 --> 00:23:02.790 that may be affecting implementation,

NOTE Confidence: 0.861293375

00:23:02.790 --> 00:23:05.485 such as the lack of human resources,

NOTE Confidence: 0.861293375

00:23:05.490 --> 00:23:08.076 but also the lack of time

NOTE Confidence: 0.861293375

00:23:08.080 --> 00:23:12.196 to get to attend the

NOTE Confidence: 0.861293375

00:23:12.196 --> 00:23:13.990 patients but also of course

NOTE Confidence: 0.861293375

00:23:14.059 --> 00:23:16.194 time to see the patients,

NOTE Confidence: 0.861293375

00:23:16.200 --> 00:23:18.580 they will have time to

NOTE Confidence: 0.861293375

00:23:18.580 --> 00:23:19.934 get additional trainings, right.
NOTE Confidence: 0.861293375

00:23:19.934 --> 00:23:22.272 So we also need to see what
NOTE Confidence: 0.861293375

00:23:22.272 --> 00:23:24.580 are kind of the barriers and
NOTE Confidence: 0.861293375

00:23:24.580 --> 00:23:27.672 your level like organizational
NOTE Confidence: 0.861293375

00:23:27.672 --> 00:23:31.537 levels that can also influence
NOTE Confidence: 0.861293375

00:23:31.540 --> 00:23:34.550 the factors.
NOTE Confidence: 0.861293375

00:23:34.550 --> 00:23:36.200 Going down to the patient
NOTE Confidence: 0.861293375

00:23:36.200 --> 00:23:38.287 if there are things that can be
NOTE Confidence: 0.861293375

00:23:38.287 --> 00:23:39.827 changed at the organization
NOTE Confidence: 0.861293375

00:23:39.827 --> 00:23:41.857 level that it may be more
NOTE Confidence: 0.861293375

00:23:41.857 --> 00:23:43.853 challenging but that may affect all
NOTE Confidence: 0.861293375

00:23:43.853 --> 00:23:47.068 the other different levels and
NOTE Confidence: 0.861293375

00:23:47.070 --> 00:23:49.359 the way is challenging because there
NOTE Confidence: 0.861293375

00:23:49.359 --> 00:23:51.541 are things that are more modifiable
NOTE Confidence: 0.861293375

00:23:51.541 --> 00:23:53.436 or easily modifiable than others.
NOTE Confidence: 0.861293375

00:23:53.440 --> 00:23:55.856 But I think the first step is trying

NOTE Confidence: 0.861293375
00:23:55.856 --> 00:23:57.542 to generate the evidence about
NOTE Confidence: 0.861293375
00:23:57.542 --> 00:23:59.576 what is driving the problem in
NOTE Confidence: 0.861293375
00:23:59.576 --> 00:24:01.747 this particular setting,
NOTE Confidence: 0.861293375
00:24:01.750 --> 00:24:05.680 and with that evidence, try to
NOTE Confidence: 0.861293375
00:24:05.680 --> 00:24:08.305 make changes at the higher level to
NOTE Confidence: 0.861293375
00:24:08.305 --> 00:24:10.904 influence some program and
NOTE Confidence: 0.861293375
00:24:10.904 --> 00:24:14.124 policies changes based on that and
NOTE Confidence: 0.861293375
00:24:14.124 --> 00:24:16.408 hopefully with that information
NOTE Confidence: 0.861293375
00:24:16.410 --> 00:24:18.657 in the case of things that are
NOTE Confidence: 0.861293375
00:24:18.657 --> 00:24:19.620 harder to modify,
NOTE Confidence: 0.861293375
00:24:19.620 --> 00:24:22.756 try to generate that evidence that can help.
NOTE Confidence: 0.861293375
00:24:22.760 --> 00:24:26.430 Also get additional funding for
NOTE Confidence: 0.861293375
00:24:26.430 --> 00:24:29.030 the clinics to have
NOTE Confidence: 0.861293375
00:24:29.030 --> 00:24:31.564 in some cases where they have been
NOTE Confidence: 0.861293375
00:24:31.564 --> 00:24:34.580 done in some places to have
NOTE Confidence: 0.861293375

00:24:34.580 --> 00:24:36.870 community health workers that are
NOTE Confidence: 0.861293375

00:24:36.957 --> 00:24:39.877 not patient navigators that dedicate
NOTE Confidence: 0.861293375

00:24:39.877 --> 00:24:42.402 themselves to the patient
NOTE Confidence: 0.861293375

00:24:42.402 --> 00:24:44.430 from the beginning of screening to
NOTE Confidence: 0.861293375

00:24:44.499 --> 00:24:47.846 treatment through all the different steps.
00:24:50.950 --> 00:24:52.780 An important part there is,
NOTE Confidence: 0.861293375

00:24:52.780 --> 00:24:55.559 this part of getting the financial
NOTE Confidence: 0.861293375

00:24:55.559 --> 00:24:57.308 resources needed to implement
NOTE Confidence: 0.861293375

00:24:57.308 --> 00:24:59.256 these kind of strategies
00:24:59.597 --> 00:25:01.956 that are more complex and that may
NOTE Confidence: 0.861293375

00:25:01.956 --> 00:25:04.363 influence and may need to influence
NOTE Confidence: 0.861293375

00:25:04.363 --> 00:25:06.443 different levels at different factors.
NOTE Confidence: 0.764243014

00:25:06.520 --> 00:25:07.860 And I agree with you,
NOTE Confidence: 0.764243014

00:25:07.860 --> 00:25:11.358 I think that ultimately many things,
NOTE Confidence: 0.764243014

00:25:11.360 --> 00:25:13.220 not all, but many things,
NOTE Confidence: 0.764243014

00:25:13.220 --> 00:25:16.876 come down to money in terms
NOTE Confidence: 0.764243014

00:25:16.876 --> 00:25:19.452 of who's going to fund the bus,

NOTE Confidence: 0.764243014

00:25:19.460 --> 00:25:21.512 who's going to hire

NOTE Confidence: 0.764243014

00:25:21.512 --> 00:25:23.564 more health care workers.

NOTE Confidence: 0.764243014

00:25:23.570 --> 00:25:25.030 And I think, you know,

NOTE Confidence: 0.764243014

00:25:25.030 --> 00:25:27.214 when we think about low to

NOTE Confidence: 0.764243014

00:25:27.214 --> 00:25:28.306 middle income countries,

NOTE Confidence: 0.764243014

00:25:28.310 --> 00:25:31.052 these countries developmentally are

00:25:33.920 --> 00:25:37.040 just at the beginning

NOTE Confidence: 0.764243014

00:25:37.040 --> 00:25:40.342 of their trajectory in terms

NOTE Confidence: 0.764243014

00:25:40.342 --> 00:25:43.214 of national development and

NOTE Confidence: 0.764243014

00:25:43.214 --> 00:25:46.928 oftentimes don't have a very strong

NOTE Confidence: 0.764243014

00:25:46.930 --> 00:25:49.626 or stable GDP oftentimes

NOTE Confidence: 0.764243014

00:25:49.626 --> 00:25:52.322 have governments that have

NOTE Confidence: 0.764243014

00:25:52.322 --> 00:25:55.190 varying degrees of corruption.

NOTE Confidence: 0.764243014

00:25:55.190 --> 00:25:59.750 And so trying to obtain funding

NOTE Confidence: 0.764243014

00:25:59.750 --> 00:26:03.624 that is sustainable and that

NOTE Confidence: 0.764243014

00:26:03.624 --> 00:26:07.074 can be funneled into healthcare

NOTE Confidence: 0.764243014

00:26:07.074 --> 00:26:09.810 it is really difficult.

NOTE Confidence: 0.764243014

00:26:09.810 --> 00:26:11.270 Now one of

NOTE Confidence: 0.764243014

00:26:11.270 --> 00:26:13.984 the other things that you had mentioned

NOTE Confidence: 0.764243014

00:26:13.984 --> 00:26:17.512 before the break is that you also have

NOTE Confidence: 0.764243014

00:26:17.520 --> 00:26:20.306 been involved in work in HIV and

NOTE Confidence: 0.764243014

00:26:20.306 --> 00:26:22.973 we know that around the world

NOTE Confidence: 0.764243014

00:26:22.973 --> 00:26:25.733 we've actually seen a great deal

NOTE Confidence: 0.764243014

00:26:25.733 --> 00:26:29.078 of progress in terms of HIV and

NOTE Confidence: 0.764243014

00:26:29.078 --> 00:26:33.086 its control in large part mediated

NOTE Confidence: 0.764243014

00:26:33.086 --> 00:26:36.110 by philanthropy and

NOTE Confidence: 0.764243014

00:26:36.110 --> 00:26:37.640 the millennial development

NOTE Confidence: 0.764243014

00:26:37.640 --> 00:26:40.590 goals of really reducing HIV,

NOTE Confidence: 0.764243014

00:26:40.590 --> 00:26:42.042 malaria and TB.

NOTE Confidence: 0.764243014

00:26:42.042 --> 00:26:44.946 And so the next question is,

NOTE Confidence: 0.764243014

00:26:44.950 --> 00:26:47.855 is this one strategy that you may have

NOTE Confidence: 0.764243014

00:26:47.860 --> 00:26:51.865 looked at or thought about in terms of
NOTE Confidence: 0.764243014

00:26:51.870 --> 00:26:56.540 increasing infrastructure.
NOTE Confidence: 0.764243014

00:26:56.540 --> 00:26:58.484 Getting out into cancer,
NOTE Confidence: 0.764243014

00:26:58.484 --> 00:27:01.400 whether it's cervical cancer or others,
NOTE Confidence: 0.764243014

00:27:01.400 --> 00:27:04.030 is building upon the infrastructure
NOTE Confidence: 0.764243014

00:27:04.030 --> 00:27:07.839 that might already exist in terms of HIV.
NOTE Confidence: 0.764243014

00:27:07.840 --> 00:27:10.140 And how would that work,
NOTE Confidence: 0.764243014

00:27:10.140 --> 00:27:12.724 how does that look and is that something
NOTE Confidence: 0.764243014

00:27:12.724 --> 00:27:14.719 that various countries are trying?
NOTE Confidence: 0.918639485714286

00:27:16.130 --> 00:27:17.934 Yeah, very good point,
NOTE Confidence: 0.918639485714286

00:27:17.934 --> 00:27:19.287 very good question.
NOTE Confidence: 0.918639485714286

00:27:19.290 --> 00:27:22.465 And the integration of
NOTE Confidence: 0.918639485714286

00:27:22.465 --> 00:27:25.005 services is something that
NOTE Confidence: 0.918639485714286

00:27:25.010 --> 00:27:26.450 depends on the kind of services.
NOTE Confidence: 0.918639485714286

00:27:26.450 --> 00:27:27.998 But integration specifically with
NOTE Confidence: 0.918639485714286

00:27:27.998 --> 00:27:31.021 HIV services is a kind of a strategy

NOTE Confidence: 0.918639485714286

00:27:31.021 --> 00:27:33.290 that is being used for different

NOTE Confidence: 0.918639485714286

00:27:33.290 --> 00:27:35.790 purposes in different countries but

NOTE Confidence: 0.918639485714286

00:27:35.790 --> 00:27:38.391 especially those

NOTE Confidence: 0.918639485714286

00:27:38.391 --> 00:27:41.493 in which there are

NOTE Confidence: 0.918639485714286

00:27:41.493 --> 00:27:44.259 high incidence or prevalence of HIV

NOTE Confidence: 0.918639485714286

00:27:44.259 --> 00:27:46.747 especially in subsaharan Africa.

NOTE Confidence: 0.918639485714286

00:27:46.750 --> 00:27:50.350 And there are efforts to integrate

NOTE Confidence: 0.918639485714286

00:27:50.350 --> 00:27:53.638 chronic disease as well as cervical

NOTE Confidence: 0.918639485714286

00:27:53.638 --> 00:27:56.977 cancer and cancer for other

NOTE Confidence: 0.918639485714286

00:27:56.977 --> 00:28:00.379 care for other cancers into the

NOTE Confidence: 0.918639485714286

00:28:00.379 --> 00:28:02.615 HIV programs since those have in

NOTE Confidence: 0.918639485714286

00:28:02.615 --> 00:28:04.625 some way already figured out and

NOTE Confidence: 0.918639485714286

00:28:04.625 --> 00:28:06.341 have the personnel have the support

NOTE Confidence: 0.918639485714286

00:28:06.341 --> 00:28:08.370 or the infrastructure,

NOTE Confidence: 0.918639485714286

00:28:08.370 --> 00:28:10.600 although they still have challenges

NOTE Confidence: 0.918639485714286

00:28:10.600 --> 00:28:12.776 and barriers to implementing the
NOTE Confidence: 0.918639485714286

00:28:12.776 --> 00:28:13.934 evidence based interventions.
NOTE Confidence: 0.918639485714286

00:28:13.934 --> 00:28:14.706 But yeah,
NOTE Confidence: 0.918639485714286

00:28:14.710 --> 00:28:16.934 there are some efforts that are being made to
NOTE Confidence: 0.918639485714286

00:28:16.940 --> 00:28:19.540 try to integrate hypertension and
NOTE Confidence: 0.918639485714286

00:28:19.540 --> 00:28:21.729 chronic disease, for example, management,
NOTE Confidence: 0.918639485714286

00:28:21.729 --> 00:28:24.027 into HIV services as well as
NOTE Confidence: 0.918639485714286

00:28:24.027 --> 00:28:25.590 cancer control services,
NOTE Confidence: 0.918639485714286

00:28:25.590 --> 00:28:27.594 especially in the case of cervical
NOTE Confidence: 0.918639485714286

00:28:27.594 --> 00:28:29.678 cancer, a cancer that is
NOTE Confidence: 0.918639485714286

00:28:29.678 --> 00:28:31.388 elevated among those with HIV.
NOTE Confidence: 0.910819178823529

00:28:32.050 --> 00:28:34.786 Doctor Raul Hernandez Ramirez is a
NOTE Confidence: 0.910819178823529

00:28:34.786 --> 00:28:36.610 research scientist in Biostatistics
NOTE Confidence: 0.910819178823529

00:28:36.682 --> 00:28:39.027 at the Yale School of Public Health.
NOTE Confidence: 0.910819178823529

00:28:39.030 --> 00:28:41.062 If you have questions,
NOTE Confidence: 0.910819178823529

00:28:41.062 --> 00:28:43.044 the address is canceranswers@yale.edu,

NOTE Confidence: 0.910819178823529

00:28:43.044 --> 00:28:45.768 and past editions of the program

NOTE Confidence: 0.910819178823529

00:28:45.768 --> 00:28:48.127 are available in audio and written

NOTE Confidence: 0.910819178823529

00:28:48.127 --> 00:28:49.056 form at yalecancercenter.org.

NOTE Confidence: 0.910819178823529

00:28:49.056 --> 00:28:51.504 We hope you'll join us next week to

NOTE Confidence: 0.910819178823529

00:28:51.504 --> 00:28:53.378 learn more about the fight against

NOTE Confidence: 0.910819178823529

00:28:53.378 --> 00:28:55.230 cancer here on Connecticut Public Radio.

NOTE Confidence: 0.910819178823529

00:28:55.230 --> 00:28:57.678 Funding for Yale Cancer Answers is

NOTE Confidence: 0.910819178823529

00:28:57.678 --> 00:29:00.000 provided by Smilow Cancer Hospital.