WEBVTT

00:00:00.000 --> 00:00:03.078 Funding for Yale Cancer Answers is NOTE Confidence: 0.900793819090909 $00{:}00{:}03.078 \dashrightarrow 00{:}00{:}05.990$ provided by Smilow Cancer Hospital. NOTE Confidence: 0.900793819090909 $00:00:05.990 \rightarrow 00:00:08.144$ Welcome to Yale Cancer Answers with NOTE Confidence: 0.900793819090909 $00:00:08.144 \rightarrow 00:00:10.429$ your host doctor Anees Chagpar. NOTE Confidence: 0.900793819090909 $00:00:10.430 \longrightarrow 00:00:12.255$ Yale Cancer Answers features the NOTE Confidence: 0.900793819090909 $00:00:12.255 \rightarrow 00:00:14.504$ latest information on cancer care by NOTE Confidence: 0.900793819090909 00:00:14.504 --> 00:00:15.944 welcoming oncologists and specialists NOTE Confidence: 0.900793819090909 $00:00:15.944 \longrightarrow 00:00:18.338$ who are on the forefront of the NOTE Confidence: 0.900793819090909 00:00:18.338 --> 00:00:20.156 battle to fight cancer. This week, NOTE Confidence: 0.900793819090909 $00:00:20.156 \rightarrow 00:00:22.021$ it's a conversation about improving NOTE Confidence: 0.900793819090909 $00{:}00{:}22.021 \dashrightarrow 00{:}00{:}23.974$ HPV vaccine rates among youths NOTE Confidence: 0.900793819090909 $00:00:23.974 \longrightarrow 00:00:25.129$ with doctor Sangini Sheth. NOTE Confidence: 0.900793819090909 $00:00:25.130 \rightarrow 00:00:27.512$ Doctor Sheth is an associate NOTE Confidence: 0.900793819090909 $00:00:27.512 \longrightarrow 00:00:28.703$ professor of obstetrics, NOTE Confidence: 0.900793819090909 $00:00:28.710 \rightarrow 00:00:29.841$ gynecology and reproductive NOTE Confidence: 0.900793819090909

00:00:29.841 -> 00:00:32.103 sciences at the Yale School of

NOTE Confidence: 0.900793819090909

 $00{:}00{:}32.103 \dashrightarrow 00{:}00{:}33.887$ Medicine where Doctor Chagpar is

NOTE Confidence: 0.900793819090909

00:00:33.890 --> 00:00:35.870 a professor of surgical oncology.

NOTE Confidence: 0.9091857385

 $00:00:36.950 \longrightarrow 00:00:38.917$ Maybe we can start off by

NOTE Confidence: 0.9091857385

 $00{:}00{:}38{.}917 \dashrightarrow 00{:}00{:}40{.}948$ you telling us a little bit more

NOTE Confidence: 0.9091857385

 $00:00:40.948 \longrightarrow 00:00:42.634$ about yourself and what you do.

NOTE Confidence: 0.629687973333333

00:00:42.930 --> 00:00:46.114 Absolutely, I'm a general

NOTE Confidence: 0.629687973333333

00:00:46.114 --> 00:00:47.706 obstetrician gynecologist,

NOTE Confidence: 0.629687973333333

 $00{:}00{:}47.710 \dashrightarrow 00{:}00{:}50.482$ but my clinical work and my

NOTE Confidence: 0.629687973333333

 $00:00:50.482 \rightarrow 00:00:52.330$ research work really focuses

NOTE Confidence: 0.629687973333333

00:00:52.330 --> 00:00:54.506 on cervical cancer prevention,

NOTE Confidence: 0.629687973333333

00:00:54.506 --> 00:00:58.663 I take care of women who have

NOTE Confidence: 0.629687973333333

00:00:58.663 --> 00:01:01.827 abnormal cervical cancer screening,

NOTE Confidence: 0.629687973333333

 $00:01:01.830 \longrightarrow 00:01:05.245$ so abnormal pap smear results

NOTE Confidence: 0.629687973333333

 $00{:}01{:}05{.}245 \dashrightarrow 00{:}01{:}08{.}660$ and do the additional evaluation

NOTE Confidence: 0.629687973333333

 $00:01:08.777 \longrightarrow 00:01:11.786$ that's needed to make sure that

- NOTE Confidence: 0.629687973333333
- 00:01:11.786 --> 00:01:14.122 they stay healthy and also spend
- NOTE Confidence: 0.629687973333333
- $00:01:14.122 \longrightarrow 00:01:16.810$ a lot of time thinking about how
- NOTE Confidence: 0.629687973333333
- 00:01:16.900 --> 00:01:19.520 we can improve HPV immunization.
- NOTE Confidence: 0.65068140875
- 00:01:21.070 --> 00:01:23.670 So that's a lot to kind of unpack,
- NOTE Confidence: 0.65068140875
- $00{:}01{:}23.670 \dashrightarrow 00{:}01{:}25.608$ but let's start with understanding a
- NOTE Confidence: 0.65068140875
- $00:01:25.608 \rightarrow 00:01:27.850$ little bit more about cervical cancer.
- NOTE Confidence: 0.65068140875
- $00:01:27.850 \longrightarrow 00:01:29.880$ So how common is cervical
- NOTE Confidence: 0.65068140875
- $00:01:29.880 \longrightarrow 00:01:32.480$ cancer in and who gets it? In
- NOTE Confidence: 0.881575768333333
- $00{:}01{:}32.490 \dashrightarrow 00{:}01{:}36.006$ the United States, we see about
- NOTE Confidence: 0.881575768333333
- 00:01:36.010 --> 00:01:38.410 13,000 cases of cervical cancer
- NOTE Confidence: 0.881575768333333
- 00:01:38.410 --> 00:01:40.730 diagnosed every year, and about
- NOTE Confidence: 0.881575768333333
- 00:01:40.730 --> 00:01:43.370 4000 women die from cervical cancer.
- NOTE Confidence: 0.881575768333333
- 00:01:43.370 --> 00:01:45.626 Here in the US each year
- NOTE Confidence: 0.881575768333333
- $00{:}01{:}45.630 \dashrightarrow 00{:}01{:}49.368$ in terms of who gets it.
- NOTE Confidence: 0.881575768333333
- 00:01:49.370 --> 00:01:52.426 You know anyone that has a cervix can
- NOTE Confidence: 0.881575768333333

 $00:01:52.426 \rightarrow 00:01:56.046$ get cervical cancer the most common ages

NOTE Confidence: 0.881575768333333

 $00:01:56.046 \longrightarrow 00:02:00.265$ of diagnosis are women in their 30s,

NOTE Confidence: 0.881575768333333

00:02:00.265 --> 00:02:02.500 forties, 50s. Fortunately,

NOTE Confidence: 0.881575768333333

 $00:02:02.500 \longrightarrow 00:02:07.709$ we can diagnose pre cancer of the

NOTE Confidence: 0.881575768333333

 $00:02:07.709 \dashrightarrow 00:02:10.228$ cervix and that is what allows us

NOTE Confidence: 0.881575768333333

 $00:02:10.228 \longrightarrow 00:02:13.132$ to try to help prevent cancer from

NOTE Confidence: 0.881575768333333

 $00:02:13.132 \rightarrow 00:02:15.637$ framling from progressing to cancer.

NOTE Confidence: 0.95654393

 $00:02:16.410 \rightarrow 00:02:19.857$ So that brings us to the next question and.

NOTE Confidence: 0.95654393

 $00{:}02{:}19.860 \dashrightarrow 00{:}02{:}22.708$ The the other aspect of cervical

NOTE Confidence: 0.95654393

 $00:02:22.708 \rightarrow 00:02:24.736$ cancer care that you mentioned that

NOTE Confidence: 0.95654393

 $00{:}02{:}24.736 \dashrightarrow 00{:}02{:}27.626$ you spend a lot of time and energy on

NOTE Confidence: 0.95654393

 $00:02:27.626 \rightarrow 00:02:29.560$ which is cervical cancer prevention.

NOTE Confidence: 0.95654393

 $00{:}02{:}29{.}560 \dashrightarrow 00{:}02{:}32{.}395$ Now you had talked about two separate

NOTE Confidence: 0.95654393

 $00:02:32.395 \dashrightarrow 00:02:34.916$ issues here and I want to kind

NOTE Confidence: 0.95654393

 $00:02:34.916 \longrightarrow 00:02:39.120$ of dive into each so one is HPV

NOTE Confidence: 0.95654393

 $00:02:39.120 \rightarrow 00:02:43.435$ vaccination and the other is cervical

- NOTE Confidence: 0.95654393
- $00:02:43.435 \rightarrow 00:02:46.360$ cancer screening with PAP tests.
- NOTE Confidence: 0.95654393
- $00{:}02{:}46.360 \dashrightarrow 00{:}02{:}48.664$ So tell us a little bit more about
- NOTE Confidence: 0.95654393
- $00:02:48.664 \rightarrow 00:02:50.660$ how each of those two things.
- NOTE Confidence: 0.95654393
- $00{:}02{:}50{.}660 \dashrightarrow 00{:}02{:}53{.}278$ Works and what the difference is in
- NOTE Confidence: 0.95654393
- $00:02:53.278 \rightarrow 00:02:56.038$ terms of how they prevent cancer.
- NOTE Confidence: 0.95654393
- $00:02:56.040 \longrightarrow 00:02:57.000$ Absolutely.
- NOTE Confidence: 0.737414907428572
- $00:02:57.910 \dashrightarrow 00:03:00.549$ Well, we can start with HPV vaccination,
- NOTE Confidence: 0.737414907428572
- $00:03:00.550 \longrightarrow 00:03:03.496$ which we think of as being
- NOTE Confidence: 0.737414907428572
- $00:03:03.496 \longrightarrow 00:03:06.058$ primary prevention. It's the 1st.
- NOTE Confidence: 0.919270161818182
- $00{:}03{:}08{.}370 \dashrightarrow 00{:}03{:}11{.}205$ First element we have to use to
- NOTE Confidence: 0.919270161818182
- $00:03:11.205 \rightarrow 00:03:12.894$ prevent infection from developing
- NOTE Confidence: 0.919270161818182
- $00{:}03{:}12.894 \dashrightarrow 00{:}03{:}16.070$ in the 1st place with a virus called
- NOTE Confidence: 0.919270161818182
- 00:03:16.070 00:03:19.355 human papilloma virus, that's the HPV.
- NOTE Confidence: 0.919270161818182
- $00{:}03{:}19{.}355 \dashrightarrow 00{:}03{:}22{.}030$ That's a very common virus,
- NOTE Confidence: 0.919270161818182
- $00:03:22.030 \dashrightarrow 00:03:26.258$ and so by being vaccinated and especially
- NOTE Confidence: 0.919270161818182

00:03:26.258 --> 00:03:28.996 vaccinated early in adolescence,

NOTE Confidence: 0.919270161818182

00:03:28.996 --> 00:03:33.088 we're talking about ages 910, eleven.

NOTE Confidence: 0.919270161818182

 $00:03:33.088 \rightarrow 00:03:35.683$ Ideally, we can prevent the

NOTE Confidence: 0.919270161818182

 $00:03:35.683 \rightarrow 00:03:37.869$ infections from happening in the.

NOTE Confidence: 0.919270161818182

 $00{:}03{:}37{.}870 \dashrightarrow 00{:}03{:}39{.}998$ 1st place and the reason we want

NOTE Confidence: 0.919270161818182

 $00{:}03{:}39{.}998 \dashrightarrow 00{:}03{:}42{.}269$ to prevent the infection is because

NOTE Confidence: 0.919270161818182

 $00:03:42.270 \longrightarrow 00:03:44.735$ virtually all cervical cancer is

NOTE Confidence: 0.919270161818182

 $00:03:44.735 \rightarrow 00:03:48.090$ caused by infection from the HPV virus.

NOTE Confidence: 0.919270161818182

 $00{:}03{:}48.090 \dashrightarrow 00{:}03{:}50.295$ When that infection stays around

NOTE Confidence: 0.919270161818182

 $00:03:50.295 \longrightarrow 00:03:53.360$ around for a long time and and

NOTE Confidence: 0.919270161818182

 $00:03:53.360 \longrightarrow 00:03:55.510$ isn't cleared by the body.

NOTE Confidence: 0.919270161818182

 $00{:}03{:}55{.}510$ --> $00{:}03{:}57{.}718$ So the vaccine at a young age really

NOTE Confidence: 0.919270161818182

 $00{:}03{:}57{.}718$ --> $00{:}04{:}00{.}077$ is our first go to for prevention.

NOTE Confidence: 0.916982857

 $00:04:00.770 \longrightarrow 00:04:02.570$ So let's just hit that

NOTE Confidence: 0.916982857

 $00{:}04{:}02{.}570 \dashrightarrow 00{:}04{:}04{.}370$ point home a little bit.

NOTE Confidence: 0.916982857

 $00:04:04.370 \longrightarrow 00:04:05.958$ So what you're basically

 $00:04:05.958 \longrightarrow 00:04:07.943$ telling us is that nearly.

NOTE Confidence: 0.916982857

00:04:07.950 --> 00:04:09.742 All cervical cancers are

NOTE Confidence: 0.916982857

 $00:04:09.742 \longrightarrow 00:04:11.982$ caused by an infection of

NOTE Confidence: 0.916982857

 $00:04:11.982 \longrightarrow 00:04:15.190$ a virus and we have safe,

NOTE Confidence: 0.916982857

 $00{:}04{:}15{.}190 \dashrightarrow 00{:}04{:}17{.}430$ effective vaccines that prevent

NOTE Confidence: 0.916982857

 $00:04:17.430 \longrightarrow 00:04:19.944$ you from getting infected

NOTE Confidence: 0.916982857

 $00:04:19.944 \longrightarrow 00:04:22.360$ and therefore prevent you

NOTE Confidence: 0.916982857

 $00:04:22.360 \longrightarrow 00:04:23.840$ from getting cervical cancer.

NOTE Confidence: 0.871132597

 $00:04:25.140 \longrightarrow 00:04:28.948$ Exactly, and I want to emphasize the safe

NOTE Confidence: 0.871132597

 $00{:}04{:}28{.}948 \dashrightarrow 00{:}04{:}32{.}040$ and effective aspects of the HPV vaccine,

NOTE Confidence: 0.871132597

 $00:04:32.040 \longrightarrow 00:04:36.754$ which we have had available in in some

NOTE Confidence: 0.871132597

 $00{:}04{:}36{.}754 \dashrightarrow 00{:}04{:}38{.}483$ form or another in the United States

NOTE Confidence: 0.871132597

 $00:04:38.483 \rightarrow 00:04:41.151$ for over 15 years now, so we have.

NOTE Confidence: 0.871132597

 $00{:}04{:}41{.}151 \dashrightarrow 00{:}04{:}43{.}536$ Millions of doses worth of

NOTE Confidence: 0.871132597

 $00{:}04{:}43.536 \dashrightarrow 00{:}04{:}46.329$ experience of giving the vaccine,

 $00{:}04{:}46{.}330 \dashrightarrow 00{:}04{:}49{.}687$ and in doing so safely and in exactly it

NOTE Confidence: 0.871132597

 $00{:}04{:}49{.}687 \dashrightarrow 00{:}04{:}53{.}084$ will prevent the infection from the varying

NOTE Confidence: 0.871132597

 $00{:}04{:}53.084 \dashrightarrow 00{:}04{:}56.459$ virus that can cause cervical cancer.

NOTE Confidence: 0.94452062

 $00{:}04{:}57{.}030 \dashrightarrow 00{:}05{:}00{.}334$ So a couple more questions on that. First,

NOTE Confidence: 0.94452062

 $00:05:00.334 \dashrightarrow 00:05:03.970$ is it covered by insurance or is it free?

NOTE Confidence: 0.94452062

 $00:05:03.970 \dashrightarrow 00:05:06.994$ Are there any cost issues that are potential NOTE Confidence: 0.94452062

 $00:05:06.994 \rightarrow 00:05:09.439$ barriers to getting the HPV vaccine?

NOTE Confidence: 0.904592325

 $00:05:10.590 \rightarrow 00:05:13.896$ The vaccine is covered by insurance.

NOTE Confidence: 0.904592325

 $00{:}05{:}13{.}900 \dashrightarrow 00{:}05{:}17{.}260$ For anyone that it is recommended for,

NOTE Confidence: 0.904592325

 $00:05:17.260 \longrightarrow 00:05:19.770$ which is any 192.

NOTE Confidence: 0.904592325

 $00:05:19.770 \longrightarrow 00:05:22.920$ Through age 45 it should be covered

NOTE Confidence: 0.904592325

 $00:05:22.920 \rightarrow 00:05:25.712$ by insurance and many places have

NOTE Confidence: 0.904592325

 $00{:}05{:}25{.}712 \dashrightarrow 00{:}05{:}28{.}412$ programs available to give it up

NOTE Confidence: 0.904592325

 $00{:}05{:}28{.}503 \dashrightarrow 00{:}05{:}31{.}891$ to make it available for free to

NOTE Confidence: 0.904592325

 $00{:}05{:}31.891 \dashrightarrow 00{:}05{:}33.700$ uninsured individuals as well.

NOTE Confidence: 0.786515319333333

 $00{:}05{:}35{.}290 \dashrightarrow 00{:}05{:}38{.}250$ And so you know the the other question

 $00:05:38.250 \rightarrow 00:05:40.627$ that people may have is you know,

NOTE Confidence: 0.786515319333333

 $00{:}05{:}40{.}630 \dashrightarrow 00{:}05{:}43{.}934$ particularly in light of a lot that we're

NOTE Confidence: 0.786515319333333

 $00:05:43.934 \rightarrow 00:05:46.390$ learning about vaccines and viruses.

NOTE Confidence: 0.786515319333333

 $00:05:46.390 \rightarrow 00:05:50.030$ Given the current pandemic is.

NOTE Confidence: 0.786515319333333

 $00:05:50.030 \rightarrow 00:05:53.672$ You know, does this vaccine actually

NOTE Confidence: 0.786515319333333

 $00:05:53.672 \rightarrow 00:05:57.100$ prevent you from getting infected?

NOTE Confidence: 0.786515319333333

 $00:05:57.100 \dashrightarrow 00:05:59.200$ Or does it just make the cervical

NOTE Confidence: 0.786515319333333

 $00:05:59.200 \longrightarrow 00:06:01.159$ cancer not something that is as lethal?

NOTE Confidence: 0.786515319333333

 $00:06:01.160 \longrightarrow 00:06:03.520$ So when we think about the COVID vaccine,

NOTE Confidence: 0.786515319333333

00:06:03.520 --> 00:06:06.376 many of us, no friends or family who

NOTE Confidence: 0.786515319333333

 $00:06:06.376 \longrightarrow 00:06:09.424$ have been fully vaccinated but can still

NOTE Confidence: 0.786515319333333

 $00:06:09.424 \dashrightarrow 00:06:12.460$ get infected and still test positive.

NOTE Confidence: 0.786515319333333

 $00{:}06{:}12.460 \dashrightarrow 00{:}06{:}14.770$ But we know that the disease

NOTE Confidence: 0.786515319333333

 $00:06:14.770 \longrightarrow 00:06:17.880$ is not as bad in those people,

NOTE Confidence: 0.786515319333333

 $00{:}06{:}17.880 \dashrightarrow 00{:}06{:}20.480$ whereas with the HPV vaccine,

 $00:06:20.480 \longrightarrow 00:06:24.485$ is my understanding correct that if

NOTE Confidence: 0.786515319333333

00:06:24.485 --> 00:06:27.110 you're actually vaccinated, you won't?

NOTE Confidence: 0.786515319333333

00:06:27.110 --> 00:06:28.640 Get cervical cancer,

NOTE Confidence: 0.786515319333333

 $00:06:28.640 \rightarrow 00:06:32.920$ at least not the HPV induced cervical cancer,

NOTE Confidence: 0.785544428571429

 $00:06:33.630 \longrightarrow 00:06:37.648$ right? So the current vaccine we have

NOTE Confidence: 0.785544428571429

00:06:37.648 --> 00:06:40.988 available protects against 9 strains of HPV.

NOTE Confidence: 0.785544428571429

 $00{:}06{:}40{.}990 \dashrightarrow 00{:}06{:}44{.}014$ Seven of those strains are known to

NOTE Confidence: 0.785544428571429

 $00:06:44.014 \rightarrow 00:06:46.510$ cause cervical and other cancers,

NOTE Confidence: 0.785544428571429

 $00{:}06{:}46{.}510 \dashrightarrow 00{:}06{:}49{.}414$ and two of those strains are

NOTE Confidence: 0.785544428571429

 $00:06:49.414 \dashrightarrow 00:06:52.158$ known to cause genital warts and

NOTE Confidence: 0.785544428571429

 $00{:}06{:}52{.}158 \dashrightarrow 00{:}06{:}55{.}162$ so by the vaccine protects from

NOTE Confidence: 0.785544428571429

 $00{:}06{:}55{.}162 \dashrightarrow 00{:}06{:}58{.}027$ infection of those nine strains.

NOTE Confidence: 0.785544428571429

 $00:06:58.030 \rightarrow 00:07:00.010$ It wouldn't protect against

NOTE Confidence: 0.785544428571429

00:07:00.010 --> 00:07:02.980 infection from other types of HPV,

NOTE Confidence: 0.785544428571429

 $00:07:02.980 \rightarrow 00:07:06.352$ and if somebody already has one strain of

NOTE Confidence: 0.785544428571429

 $00:07:06.352 \rightarrow 00:07:09.500$ HPV at the time that they get the vaccine,

 $00:07:09.500 \longrightarrow 00:07:11.320$ it wouldn't protect them from

NOTE Confidence: 0.785544428571429

 $00:07:11.320 \longrightarrow 00:07:12.776$ what they already had,

NOTE Confidence: 0.785544428571429

 $00{:}07{:}12.780 \dashrightarrow 00{:}07{:}15.986$ but it is different in that it

NOTE Confidence: 0.785544428571429

 $00:07:15.986 \rightarrow 00:07:18.283$ protects from infection and because

NOTE Confidence: 0.785544428571429

 $00{:}07{:}18.283 \dashrightarrow 00{:}07{:}21.195$ of that we see rates of genital

NOTE Confidence: 0.785544428571429

 $00:07:21.195 \rightarrow 00:07:23.990$ warts going down and we see rates

NOTE Confidence: 0.785544428571429

 $00:07:23.990 \longrightarrow 00:07:26.699$ of the pre cancer of the cervix

NOTE Confidence: 0.785544428571429

 $00:07:26.699 \longrightarrow 00:07:28.664$ that I mentioned going down.

NOTE Confidence: 0.785544428571429

 $00{:}07{:}28.670 \dashrightarrow 00{:}07{:}30.826$ And we're starting to see rates of

NOTE Confidence: 0.785544428571429

 $00:07:30.826 \rightarrow 00:07:32.519$ cervical cancer going down as well.

NOTE Confidence: 0.903882636

 $00:07:33.330 \dashrightarrow 00:07:35.486$ And the other point that I think

NOTE Confidence: 0.903882636

 $00{:}07{:}35{.}486 \dashrightarrow 00{:}07{:}37{.}857$ you made and that I just want to.

NOTE Confidence: 0.903882636

00:07:37.860 --> 00:07:42.840 A kind of amplify is that if you get the

NOTE Confidence: 0.903882636

 $00{:}07{:}42.840 \dashrightarrow 00{:}07{:}44.640$ vaccine and you're already infected,

NOTE Confidence: 0.903882636

 $00:07:44.640 \longrightarrow 00:07:47.142$ it won't help you against what

00:07:47.142 --> 00:07:48.810 you're already infected against.

NOTE Confidence: 0.903882636

00:07:48.810 --> 00:07:51.658 And that's why it's so important to get

NOTE Confidence: 0.903882636

 $00:07:51.658 \rightarrow 00:07:53.968$ vaccinated early when people are thinking

NOTE Confidence: 0.903882636

 $00:07:53.968 \rightarrow 00:07:56.666$ about vaccination during childhood.

NOTE Confidence: 0.903882636

00:07:56.666 --> 00:07:59.754 910 eleven years old,

NOTE Confidence: 0.903882636

 $00{:}07{:}59{.}760 \dashrightarrow 00{:}08{:}01{.}218$ one of the good reasons to

NOTE Confidence: 0.903882636

 $00:08:01.218 \longrightarrow 00:08:02.490$ get vaccinated early is that,

NOTE Confidence: 0.948911002

00:08:02.500 --> 00:08:05.210 right? Yep, exactly it is.

NOTE Confidence: 0.948911002

 $00{:}08{:}05{.}210 \dashrightarrow 00{:}08{:}07{.}050$ Our immune system responds

NOTE Confidence: 0.948911002

 $00:08:07.050 \rightarrow 00:08:08.890$ better when we're younger.

NOTE Confidence: 0.948911002

 $00{:}08{:}08{.}890 \dashrightarrow 00{:}08{:}11{.}080$ We're going to be protected against

NOTE Confidence: 0.948911002

 $00:08:11.080 \rightarrow 00:08:13.868$ more of the strains when we're younger,

NOTE Confidence: 0.948911002

 $00{:}08{:}13.870 \dashrightarrow 00{:}08{:}15.450$ and then a little added

NOTE Confidence: 0.948911002

 $00:08:15.450 \longrightarrow 00:08:17.739$ benefit is that if we start the

NOTE Confidence: 0.948911002

 $00:08:17.739 \longrightarrow 00:08:19.972$ vaccine prior to the age of 15.

NOTE Confidence: 0.948911002

 $00:08:19.980 \longrightarrow 00:08:21.948$ It is only two doses as

- NOTE Confidence: 0.948911002
- $00:08:21.948 \longrightarrow 00:08:23.260$ opposed to three doses.

 $00:08:23.260 \longrightarrow 00:08:24.470$ If it is started later.

NOTE Confidence: 0.870719

 $00{:}08{:}25{.}350 \dashrightarrow 00{:}08{:}27{.}030$ You know sangini, I have to ask you

NOTE Confidence: 0.870719

 $00:08:27.030 \longrightarrow 00:08:28.490$ about the elephant in the room,

NOTE Confidence: 0.870719

 $00:08:28.490 \longrightarrow 00:08:32.266$ which is the concern that some people have.

NOTE Confidence: 0.870719

00:08:32.270 --> 00:08:36.650 That vaccinating children leads to autism.

NOTE Confidence: 0.870719

 $00:08:36.650 \longrightarrow 00:08:40.493$ Can you put that kind of myth to bed

NOTE Confidence: 0.922479457692308

 $00:08:41.530 \longrightarrow 00:08:44.078$ absolutely? So the published

NOTE Confidence: 0.922479457692308

 $00{:}08{:}44.078 \dashrightarrow 00{:}08{:}47.263$ studies that raise those questions

NOTE Confidence: 0.922479457692308

 $00:08:47.263 \longrightarrow 00:08:49.300$ turned out to be falsified.

NOTE Confidence: 0.922479457692308

 $00:08:49.300 \rightarrow 00:08:52.730$ They were never accurate to begin with

NOTE Confidence: 0.922479457692308

 $00{:}08{:}52.730 \dashrightarrow 00{:}08{:}55.737$ and certainly for HPV there is no data.

NOTE Confidence: 0.922479457692308

 $00:08:55.740 \longrightarrow 00:08:58.540$ To bear that out for this vaccine,

NOTE Confidence: 0.922479457692308

 $00{:}08{:}58{.}540 \dashrightarrow 00{:}09{:}01{.}020$ or for any other vaccine.

NOTE Confidence: 0.922479457692308

00:09:01.020 --> 00:09:05.090 OK, so so for anybody

 $00{:}09{:}05{.}100 \dashrightarrow 00{:}09{:}08{.}268$ out there who is concerned about

NOTE Confidence: 0.96287589

 $00{:}09{:}08.268 \dashrightarrow 00{:}09{:}10.924$ autism in children getting vaccines.

NOTE Confidence: 0.96287589

 $00:09:10.924 \longrightarrow 00:09:12.520$ Just to reiterate,

NOTE Confidence: 0.96287589

 $00:09:12.520 \longrightarrow 00:09:14.056$ there is no evidence for that.

NOTE Confidence: 0.96287589

00:09:14.060 --> 00:09:16.552 And when you think about the benefit

NOTE Confidence: 0.96287589

 $00:09{:}16.552 \dashrightarrow 00{:}09{:}19.209$ that these vaccines have in terms of NOTE Confidence: 0.96287589

 $00:09:19.209 \rightarrow 00:09:21.114$ preventing your children from getting

NOTE Confidence: 0.96287589

 $00:09:21.120 \longrightarrow 00:09:23.958$ not just cervical cancer but sangini,

NOTE Confidence: 0.96287589

 $00{:}09{:}23{.}960 \dashrightarrow 00{:}09{:}27{.}194$ am I right that it also protects

NOTE Confidence: 0.96287589

 $00:09:27.194 \rightarrow 00:09:29.778$ against oral pharyngeal cancers?

NOTE Confidence: 0.96287589

00:09:29.778 --> 00:09:31.190 Anal cancers?

NOTE Confidence: 0.96287589

 $00{:}09{:}31{.}190 \dashrightarrow 00{:}09{:}34{.}274$ A whole myriad of different cancers

NOTE Confidence: 0.96287589

 $00:09:34.274 \dashrightarrow 00:09:37.680$ that are all related to HPV, exactly

NOTE Confidence: 0.865651953076923

 $00:09:37.690 \longrightarrow 00:09:40.721$ we we say 6 cancers total that

NOTE Confidence: 0.865651953076923

 $00:09:40.721 \longrightarrow 00:09:43.609$ can all be caused by HPV.

NOTE Confidence: 0.865651953076923

 $00:09:43.610 \rightarrow 00:09:46.178$ That this vaccine can help prevent

- NOTE Confidence: 0.95781436
- $00:09:46.950 \longrightarrow 00:09:48.588$ and so for everybody who has

00:09:48.588 --> 00:09:50.100 always been praying for something

NOTE Confidence: 0.95781436

 $00:09:50.100 \rightarrow 00:09:51.568$ that will prevent cancer,

NOTE Confidence: 0.95781436

 $00:09:51.570 \dashrightarrow 00:09:55.908$ here you have it and such a good reason

NOTE Confidence: 0.95781436

 $00:09:55.908 \rightarrow 00:09:58.374$ to get get your children vaccinated.

NOTE Confidence: 0.95781436

00:09:58.374 --> 00:10:01.472 But let me ask you this sangini 'cause

NOTE Confidence: 0.95781436

 $00:10:01.472 \longrightarrow 00:10:04.408$ I know that people are going to ask.

NOTE Confidence: 0.95781436

 $00:10:04.410 \longrightarrow 00:10:06.780$ When you say the vast majority

NOTE Confidence: 0.95781436

00:10:06.780 --> 00:10:08.970 of cancers are caused by HPV,

NOTE Confidence: 0.95781436

 $00:10:08.970 \longrightarrow 00:10:10.570$ are there some that aren't?

NOTE Confidence: 0.95781436

 $00:10:10.570 \longrightarrow 00:10:12.970$ So is it possible that even

NOTE Confidence: 0.95781436

 $00:10:12.970 \longrightarrow 00:10:14.570$ if you are vaccinated,

NOTE Confidence: 0.95781436

00:10:14.570 --> 00:10:16.680 you could still get cervical

NOTE Confidence: 0.95781436

 $00:10:16.680 \longrightarrow 00:10:18.790$ cancer but not from HPV?

NOTE Confidence: 0.95781436

 $00{:}10{:}18{.}790 \dashrightarrow 00{:}10{:}21{.}966$ And if So what are the risk factors

 $00:10:21.966 \longrightarrow 00:10:24.755$ aside from HPV that cause cervical

NOTE Confidence: 0.95781436

 $00:10:24.755 \rightarrow 00:10:28.130$ cancer and how frequent is that there

NOTE Confidence: 0.875434117692308

00:10:28.140 --> 00:10:31.176 are very rare types of cervical

NOTE Confidence: 0.875434117692308

 $00:10:31.176 \rightarrow 00:10:34.660$ cancers that are not caused by HPV.

NOTE Confidence: 0.875434117692308

00:10:34.660 --> 00:10:36.700 Again, I want to stress the rare one,

NOTE Confidence: 0.875434117692308

 $00:10:36.700 \longrightarrow 00:10:38.740$ especially when it comes

NOTE Confidence: 0.875434117692308

 $00:10:38.740 \longrightarrow 00:10:40.712$ to cervical cancer. There.

NOTE Confidence: 0.875434117692308

 $00:10:40.712 \rightarrow 00:10:44.690$ And and we're seeing less and less of this,

NOTE Confidence: 0.875434117692308

 $00{:}10{:}44.690 \dashrightarrow 00{:}10{:}48.242$ but there used to be exposure to a

NOTE Confidence: 0.875434117692308

 $00{:}10{:}48.242 \dashrightarrow 00{:}10{:}51.338$ chemical called desd that increase

NOTE Confidence: 0.875434117692308

 $00{:}10{:}51{.}338 \dashrightarrow 00{:}10{:}54{.}236$ the risk of cervical cancer and so.

NOTE Confidence: 0.9154722116666667

 $00:10:57.080 \rightarrow 00:11:02.350$ Children of women who are exposed to that.

NOTE Confidence: 0.9154722116666667

 $00{:}11{:}02{.}350 \dashrightarrow 00{:}11{:}04{.}750$ Our would be at increased risk of a

NOTE Confidence: 0.9154722116666667

00:11:04.750 --> 00:11:07.358 non HP form of cancer for example,

NOTE Confidence: 0.915472211666667

 $00:11:07.360 \longrightarrow 00:11:09.335$ but that chemical stopped being

NOTE Confidence: 0.915472211666667

 $00:11:09.335 \longrightarrow 00:11:11.962$ used along time ago and so we

- NOTE Confidence: 0.915472211666667
- $00:11:11.962 \longrightarrow 00:11:13.684$ see less and less of that.
- NOTE Confidence: 0.952095725
- $00{:}11{:}14{.}980 \dashrightarrow 00{:}11{:}18{.}236$ And so let me ask you this question.
- NOTE Confidence: 0.952095725
- 00:11:18.240 --> 00:11:20.950 If everybody in the entire world
- NOTE Confidence: 0.952095725
- 00:11:20.950 --> 00:11:24.780 was to get vaccinated against HPV.
- NOTE Confidence: 0.952095725
- $00{:}11{:}24.780 \dashrightarrow 00{:}11{:}25.768$ Would we essentially be
- NOTE Confidence: 0.952095725
- 00:11:25.768 --> 00:11:27.250 putting you out of a job?
- NOTE Confidence: 0.906876937272727
- 00:11:28.690 --> 00:11:30.199 Yeah, that's that,
- NOTE Confidence: 0.906876937272727
- $00:11:30.199 \rightarrow 00:11:34.080$ and that would be perfectly fine with me.
- NOTE Confidence: 0.906876937272727
- 00:11:34.080 --> 00:11:36.020 But but yes, you know,
- NOTE Confidence: 0.906876937272727
- $00:11:36.020 \rightarrow 00:11:39.359$ we're actually in a very exciting time.
- NOTE Confidence: 0.906876937272727
- 00:11:39.360 --> 00:11:41.580 Right now. I'm globally.
- NOTE Confidence: 0.906876937272727
- $00{:}11{:}41{.}580 \dashrightarrow 00{:}11{:}44{.}910$ The world is focused on the
- NOTE Confidence: 0.906876937272727
- $00{:}11{:}44{.}910 \dashrightarrow 00{:}11{:}47{.}520$ elimination of cervical cancer and
- NOTE Confidence: 0.906876937272727
- $00{:}11{:}47{.}520 \dashrightarrow 00{:}11{:}49{.}263$ the fact that we can even have
- NOTE Confidence: 0.906876937272727
- $00:11:49.263 \dashrightarrow 00:11:50.500$ that conversation is exciting.
- NOTE Confidence: 0.906876937272727

 $00:11:50.500 \longrightarrow 00:11:53.503$ And the reason we can have that

NOTE Confidence: 0.906876937272727

 $00{:}11{:}53{.}503 \dashrightarrow 00{:}11{:}55{.}662$ conversation is because of a

NOTE Confidence: 0.906876937272727

 $00:11:55.662 \rightarrow 00:11:57.647$ combination of having the this

NOTE Confidence: 0.906876937272727

 $00{:}11{:}57{.}647 \dashrightarrow 00{:}12{:}00{.}100$ vaccine as well as the screening

NOTE Confidence: 0.906876937272727

 $00:12:00.100 \longrightarrow 00:12:02.650$ that we you've mentioned already,

NOTE Confidence: 0.866794671

 $00{:}12{:}03.660 \dashrightarrow 00{:}12{:}07.237$ yeah. I mean to even talk about NOTE Confidence: 0.866794671

10112 Connuclice: 0.000134011

00:12:07.237 --> 00:12:11.010 eradication of cancer, is is just it?

NOTE Confidence: 0.866794671

00:12:11.010 --> 00:12:13.796 It really is exciting and really

NOTE Confidence: 0.866794671

 $00{:}12{:}13.796 \dashrightarrow 00{:}12{:}16.628$ jubilant. Let me ask you this,

NOTE Confidence: 0.866794671

 $00{:}12{:}16.630 \dashrightarrow 00{:}12{:}19.888$ if you've been vaccinated against HPV,

NOTE Confidence: 0.866794671

 $00:12:19.890 \dashrightarrow 00:12:21.890$ do you still need to get Pap smears?

NOTE Confidence: 0.866794671

 $00{:}12{:}21.890 \dashrightarrow 00{:}12{:}24.320$ Do you still need to get screened? Yes,

NOTE Confidence: 0.826816577

 $00{:}12{:}24{.}330 \dashrightarrow 00{:}12{:}27{.}246$ right now the screening still is

NOTE Confidence: 0.826816577

 $00{:}12{:}27.246 \dashrightarrow 00{:}12{:}29.190$ a really important component.

NOTE Confidence: 0.826816577

 $00:12:29.190 \rightarrow 00:12:31.950$ Partly it's because the vaccine right

NOTE Confidence: 0.826816577

 $00:12:31.950 \rightarrow 00:12:34.450$ now protects against nine strains.

- NOTE Confidence: 0.826816577
- 00:12:34.450 --> 00:12:36.270 As I said, seven of which cause.
- NOTE Confidence: 0.826816577
- $00:12:36.270 \longrightarrow 00:12:37.995$ Cervical cancer that
- NOTE Confidence: 0.826816577
- 00:12:37.995 --> 00:12:40.295 doesn't cover every strain.
- NOTE Confidence: 0.826816577
- $00:12:40.300 \rightarrow 00:12:43.478$ Although it covers about 85 to 90%
- NOTE Confidence: 0.826816577
- $00{:}12{:}43{.}480 \dashrightarrow 00{:}12{:}47{.}146$ of what can cause cervical cancer.
- NOTE Confidence: 0.826816577
- $00:12:47.150 \longrightarrow 00:12:49.607$ But overtime, if we you know have
- NOTE Confidence: 0.826816577
- 00:12:49.607 --> 00:12:52.270 very very high rates of vaccination,
- NOTE Confidence: 0.826816577
- $00{:}12{:}52{.}270 \dashrightarrow 00{:}12{:}54{.}244$ then one day we may see exactly
- NOTE Confidence: 0.826816577
- $00:12:54.244 \longrightarrow 00:12:56.499$ how we need to screen and who
- NOTE Confidence: 0.826816577
- $00:12:56.499 \longrightarrow 00:12:58.174$ needs to get screen changed.
- NOTE Confidence: 0.826816577
- 00:12:58.180 --> 00:12:58.990 But for right
- NOTE Confidence: 0.9168346366666667
- 00:12:59.000 --> 00:13:00.744 now you're recommending screening
- NOTE Confidence: 0.9168346366666667
- $00:13:00.744 \longrightarrow 00:13:02.289$ for every body. Is that right
- NOTE Confidence: 0.941062122
- $00{:}13{:}02{.}460 \dashrightarrow 00{:}13{:}05{.}420$ exactly? Regardless of vaccination history.
- NOTE Confidence: 0.90863857
- $00:13:06.490 \longrightarrow 00:13:08.583$ So right after we take a quick
- NOTE Confidence: 0.90863857

00:13:08.583 --> 00:13:10.629 break for a medical minute,

NOTE Confidence: 0.90863857

 $00{:}13{:}10.630 \dashrightarrow 00{:}13{:}13.987$ I want to dive more into the screening part.

NOTE Confidence: 0.90863857

00:13:13.990 --> 00:13:16.797 We've talked a lot about primary prevention

NOTE Confidence: 0.90863857

 $00{:}13{:}16.797 \dashrightarrow 00{:}13{:}19.956$ with vaccines and that is by far the

NOTE Confidence: 0.90863857

 $00{:}13{:}19.956 \dashrightarrow 00{:}13{:}21.594$ most exciting breakthrough, I think.

NOTE Confidence: 0.90863857

 $00{:}13{:}21.594 \dashrightarrow 00{:}13{:}23.610$ But we still need to learn a little

NOTE Confidence: 0.90863857

 $00:13:23.668 \rightarrow 00:13:25.728$ bit more about secondary prevention.

NOTE Confidence: 0.90863857

 $00:13:25.730 \longrightarrow 00:13:27.070$ Who needs a pap smear?

NOTE Confidence: 0.90863857

00:13:27.070 --> 00:13:29.632 What's an HPV test? How exactly does

NOTE Confidence: 0.90863857

 $00:13:29.632 \rightarrow 00:13:32.149$ that happen and does it affect you?

NOTE Confidence: 0.90863857

 $00:13:32.150 \longrightarrow 00:13:33.378$ So please stay tuned.

NOTE Confidence: 0.879908309

00:13:33.770 --> 00:13:35.685 Funding for Yale Cancer answers

NOTE Confidence: 0.879908309

00:13:35.685 --> 00:13:37.600 comes from Smilow Cancer Hospital.

NOTE Confidence: 0.879908309

 $00{:}13{:}37{.}600 \dashrightarrow 00{:}13{:}39{.}808$ Where a wide spectrum of advanced

NOTE Confidence: 0.879908309

 $00{:}13{:}39{.}808 \dashrightarrow 00{:}13{:}41{.}780$ strategies for the diagnosis and

NOTE Confidence: 0.879908309

 $00:13:41.780 \rightarrow 00:13:43.512$ treatment of gynecological cancers

- NOTE Confidence: 0.879908309
- $00{:}13{:}43{.}512 \dashrightarrow 00{:}13{:}45{.}829$ are offered. To learn more,

00:13:45.829 --> 00:13:48.727 visit Yale Cancer Center org gin.

NOTE Confidence: 0.943625242142857

 $00{:}13{:}51{.}740 \dashrightarrow 00{:}13{:}54{.}052$ Breast cancer is one of the most common

NOTE Confidence: 0.943625242142857

 $00:13:54.052 \rightarrow 00:13:56.249$ cancers in women in Connecticut alone,

NOTE Confidence: 0.943625242142857

 $00:13:56.250 \rightarrow 00:13:58.450$ approximately 3500 women will be

NOTE Confidence: 0.943625242142857

 $00{:}13{:}58{.}450 \dashrightarrow 00{:}14{:}01{.}060$ diagnosed with breast cancer this year,

NOTE Confidence: 0.943625242142857

 $00:14:01.060 \rightarrow 00:14:02.424$ but there is hope,

NOTE Confidence: 0.943625242142857

00:14:02.424 --> 00:14:03.788 thanks to earlier detection,

NOTE Confidence: 0.943625242142857

 $00{:}14{:}03.790 \dashrightarrow 00{:}14{:}05.810$ noninvasive treatments and the development

NOTE Confidence: 0.943625242142857

 $00:14:05.810 \longrightarrow 00:14:08.699$ of novel the rapies to fight breast cancer.

NOTE Confidence: 0.943625242142857

 $00{:}14{:}08.700 \dashrightarrow 00{:}14{:}10.525$ Women should schedule a baseline

NOTE Confidence: 0.943625242142857

00:14:10.525 --> 00:14:12.740 mammogram beginning at age 40 or

NOTE Confidence: 0.943625242142857

00:14:12.740 --> 00:14:14.714 earlier if they have risk factors

NOTE Confidence: 0.943625242142857

 $00{:}14{:}14{.}714 \dashrightarrow 00{:}14{:}16{.}240$ associated with the disease.

NOTE Confidence: 0.943625242142857

 $00{:}14{:}16{.}240 \dashrightarrow 00{:}14{:}17{.}988$ With screening early detection

 $00:14:17.988 \longrightarrow 00:14:19.736$ and a healthy lifestyle,

NOTE Confidence: 0.943625242142857

 $00:14:19.740 \longrightarrow 00:14:21.880$ breast cancer can be defeated.

NOTE Confidence: 0.943625242142857

 $00:14:21.880 \longrightarrow 00:14:23.836$ Clinical trials are currently

NOTE Confidence: 0.943625242142857

 $00:14:23.836 \rightarrow 00:14:25.792$ underway at federally designated

NOTE Confidence: 0.943625242142857

00:14:25.792 --> 00:14:27.474 Comprehensive cancer centers such

NOTE Confidence: 0.943625242142857

00:14:27.474 --> 00:14:29.700 as Yale Cancer Center and Smilow

NOTE Confidence: 0.943625242142857

 $00{:}14{:}29{.}700 \dashrightarrow 00{:}14{:}31{.}788$ Cancer Hospital to make innovative

NOTE Confidence: 0.943625242142857

 $00{:}14{:}31.788 \dashrightarrow 00{:}14{:}33.918$ new treatments available to patients.

NOTE Confidence: 0.943625242142857

 $00{:}14{:}33{.}920 \dashrightarrow 00{:}14{:}36{.}650$ Digital breast Tomosynthesis or 3D

NOTE Confidence: 0.943625242142857

 $00{:}14{:}36.650 \dashrightarrow 00{:}14{:}39.117$ mammography is also transforming breast

NOTE Confidence: 0.943625242142857

 $00:14:39.117 \longrightarrow 00:14:41.421$ cancer screening by significantly

NOTE Confidence: 0.943625242142857

00:14:41.421 --> 00:14:43.149 reducing unnecessary procedures

NOTE Confidence: 0.943625242142857

 $00:14:43.149 \rightarrow 00:14:45.439$ while picking up more cancers.

NOTE Confidence: 0.943625242142857

 $00{:}14{:}45{.}440 \dashrightarrow 00{:}14{:}48{.}420$ More information is available at

NOTE Confidence: 0.943625242142857

00:14:48.420 --> 00:14:49.716 yalecancercenter.org. You're listening

NOTE Confidence: 0.943625242142857

 $00{:}14{:}49{.}716 \dashrightarrow 00{:}14{:}51{.}444$ to Connecticut Public Radio.

- NOTE Confidence: 0.821387198333333
- $00:14:52.420 \longrightarrow 00:14:54.598$ Welcome back to Yale Cancer Answers.
- NOTE Confidence: 0.821387198333333
- $00{:}14{:}54{.}600 \dashrightarrow 00{:}14{:}56{.}280$ This is doctor Anees Chagpar and
- NOTE Confidence: 0.821387198333333
- $00:14:56.280 \rightarrow 00:14:58.159$ I'm joined tonight by
- NOTE Confidence: 0.821387198333333
- $00{:}14{:}58{.}159 \dashrightarrow 00{:}14{:}59{.}899$ my guest Doctor Sangini Sheth.
- NOTE Confidence: 0.821387198333333
- $00:14:59.900 \rightarrow 00:15:02.520$ We're talking about cervical cancer
- NOTE Confidence: 0.821387198333333
- $00{:}15{:}02{.}520 \dashrightarrow 00{:}15{:}04{.}616$ and especially prevention now.
- NOTE Confidence: 0.821387198333333
- $00:15:04.620 \longrightarrow 00:15:06.930$ Right before the break we
- NOTE Confidence: 0.821387198333333
- $00:15:06.930 \rightarrow 00:15:09.638$ talked a lot about what you called
- NOTE Confidence: 0.821387198333333
- $00{:}15{:}09{.}640 \dashrightarrow 00{:}15{:}12{.}494$ primary prevention and that was
- NOTE Confidence: 0.821387198333333
- 00:15:12.494 --> 00:15:14.784 talking about HPV vaccination and
- NOTE Confidence: 0.821387198333333
- $00:15:14.784 \rightarrow 00:15:17.367$ the potential that vaccination could
- NOTE Confidence: 0.821387198333333
- $00:15:17.367 \rightarrow 00:15:20.002$ actually eradicate cervical cancer and
- NOTE Confidence: 0.821387198333333
- $00:15:20.002 \rightarrow 00:15:23.968$ maybe a whole bunch of other cancers as well.
- NOTE Confidence: 0.821387198333333
- $00{:}15{:}23{.}970 \dashrightarrow 00{:}15{:}24{.}894$ Which is.
- NOTE Confidence: 0.821387198333333
- 00:15:24.894 --> 00:15:25.818 Completely exciting,
- NOTE Confidence: 0.821387198333333

 $00:15:25.818 \rightarrow 00:15:29.179$ but you did mention something else which

NOTE Confidence: 0.821387198333333

 $00{:}15{:}29{.}179 \dashrightarrow 00{:}15{:}31{.}729$ is screening or secondary prevention.

NOTE Confidence: 0.821387198333333

 $00:15:31.730 \rightarrow 00:15:34.630$ Can you tell us a little bit more about that?

NOTE Confidence: 0.821387198333333

 $00:15:34.630 \longrightarrow 00:15:35.460$ Absolutely,

NOTE Confidence: 0.8832542

 $00:15:35.470 \longrightarrow 00:15:37.720$ and this is probably what most

NOTE Confidence: 0.8832542

 $00:15:37.720 \longrightarrow 00:15:39.630$ people are very familiar with,

NOTE Confidence: 0.8832542

 $00:15:39.630 \rightarrow 00:15:42.742$ which is screening with a Pap test which

NOTE Confidence: 0.8832542

 $00:15:42.742 \longrightarrow 00:15:45.710$ we have been using since the 1950s.

NOTE Confidence: 0.8832542

00:15:45.710 --> 00:15:48.590 As really the mainstay of cervical

NOTE Confidence: 0.8832542

 $00:15:48.590 \longrightarrow 00:15:51.634$ cancer prevention and the need

NOTE Confidence: 0.8832542

00:15:51.634 --> 00:15:54.498 for screening hasn't gone away,

NOTE Confidence: 0.8832542

 $00{:}15{:}54{.}498 \dashrightarrow 00{:}15{:}57{.}128$ and it remains very important.

NOTE Confidence: 0.8832542

 $00:15:57.130 \rightarrow 00:15:59.490$ What's changed about screening

NOTE Confidence: 0.8832542

 $00:15:59.490 \longrightarrow 00:16:03.030$ is that now we're relying more

NOTE Confidence: 0.8832542

00:16:03.135 --> 00:16:05.460 and more on HPV testing.

NOTE Confidence: 0.8832542

 $00:16:05.460 \longrightarrow 00:16:09.037$ As the only form of screening or

- NOTE Confidence: 0.8832542
- $00:16:09.037 \longrightarrow 00:16:13.814$ or a secondary part to the to the
- NOTE Confidence: 0.8832542
- 00:16:13.814 --> 00:16:16.256 Pap smear to to really understand
- NOTE Confidence: 0.8832542
- $00{:}16{:}16{.}256 \dashrightarrow 00{:}16{:}19{.}210$ who's at risk and how much risk.
- NOTE Confidence: 0.94244843111111
- $00{:}16{:}20{.}100 \dashrightarrow 00{:}16{:}22{.}377$ So tell us a little bit more about that.
- NOTE Confidence: 0.942448431111111
- $00:16:22.380 \rightarrow 00:16:24.810$ So many of us are familiar with Pap smears,
- NOTE Confidence: 0.94244843111111
- $00{:}16{:}24.810 \dashrightarrow 00{:}16{:}26.890$ so let's break it down a little bit.
- NOTE Confidence: 0.860761980833333
- $00{:}16{:}27.220 \dashrightarrow 00{:}16{:}29.908$ So we should start cervical cancer
- NOTE Confidence: 0.860761980833333
- $00:16:29.908 \rightarrow 00:16:32.319$ screening for people at age 21.
- NOTE Confidence: 0.860761980833333
- $00:16:32.320 \longrightarrow 00:16:34.366$ So anyone with a cervix needs
- NOTE Confidence: 0.860761980833333
- $00:16:34.366 \rightarrow 00:16:36.269$ to start screening at age 21.
- NOTE Confidence: 0.860761980833333
- $00:16:36.270 \longrightarrow 00:16:37.374$ That screening,
- NOTE Confidence: 0.860761980833333
- $00{:}16{:}37{.}374 \dashrightarrow 00{:}16{:}41{.}155$ at least until the age of 25,
- NOTE Confidence: 0.860761980833333
- $00:16:41.155 \rightarrow 00:16:45.340$ should be in the form of a pap smear.
- NOTE Confidence: 0.860761980833333
- $00:16:45.340 \longrightarrow 00:16:48.787$ Starting at age 25, there are some
- NOTE Confidence: 0.860761980833333
- $00:16:48.787 \rightarrow 00:16:51.776$ options for how to do this screening.
- NOTE Confidence: 0.860761980833333

 $00{:}16{:}51.780 \dashrightarrow 00{:}16{:}54.939$ We can stay with the Pap smear and we

NOTE Confidence: 0.860761980833333

 $00:16:54.939 \rightarrow 00:16:58.457$ or we can start adding in HPV testing.

NOTE Confidence: 0.860761980833333

 $00{:}16{:}58{.}460 \dashrightarrow 00{:}17{:}01{.}008$ The reason that HPV testing makes sense NOTE Confidence: 0.860761980833333

 $00:17:01.008 \rightarrow 00:17:03.819$ is because as we talked about earlier,

NOTE Confidence: 0.860761980833333

00:17:03.820 --> 00:17:07.044 that virus is what we know causes almost

NOTE Confidence: 0.860761980833333

 $00{:}17{:}07{.}044 \dashrightarrow 00{:}17{:}09{.}902$ all cervical cancer and by testing for

NOTE Confidence: 0.860761980833333

 $00:17:09.902 \longrightarrow 00:17:12.642$ the presence or absence of the virus

NOTE Confidence: 0.860761980833333

 $00:17:12.642 \rightarrow 00:17:15.378$ we can start to identify who is at.

NOTE Confidence: 0.860761980833333

 $00:17:15.380 \longrightarrow 00:17:18.720$ Risk there is some.

NOTE Confidence: 0.860761980833333

 $00{:}17{:}18.720 \dashrightarrow 00{:}17{:}21.536$ Some newer recommendations that

NOTE Confidence: 0.860761980833333

 $00{:}17{:}21.536 \dashrightarrow 00{:}17{:}24.974$ we're not really starting to see

NOTE Confidence: 0.860761980833333

00:17:24.974 --> 00:17:27.829 broadly in clinical practice,

NOTE Confidence: 0.860761980833333

 $00:17:27.830 \longrightarrow 00:17:31.176$ but we we will probably start to

NOTE Confidence: 0.860761980833333

00:17:31.176 -> 00:17:33.609 incorporate more and more often

NOTE Confidence: 0.860761980833333

 $00:17:33.610 \longrightarrow 00:17:37.050$ and and that is a role for doing

NOTE Confidence: 0.860761980833333

 $00:17:37.050 \rightarrow 00:17:39.749$ only HPV testing down the road.

- NOTE Confidence: 0.891119748333333
- $00:17:40.850 \longrightarrow 00:17:43.868$ So let me ask you this.
- NOTE Confidence: 0.891119748333333
- 00:17:43.870 --> 00:17:46.579 The purpose of the Pap smear is
- NOTE Confidence: 0.891119748333333
- $00{:}17{:}46.579 \dashrightarrow 00{:}17{:}49.644$ to find pre cervical cancer cells
- NOTE Confidence: 0.891119748333333
- $00:17:49.644 \rightarrow 00:17:52.659$ that we can potentially eliminate
- NOTE Confidence: 0.891119748333333
- $00{:}17{:}52.659 \dashrightarrow 00{:}17{:}55.406$ before they actually progress
- NOTE Confidence: 0.891119748333333
- $00{:}17{:}55{.}406 \dashrightarrow 00{:}17{:}58{.}290$ into invasive cervical cancer.
- NOTE Confidence: 0.891119748333333
- $00:17:58.290 \longrightarrow 00:18:00.390$ Is that right exactly?
- NOTE Confidence: 0.891119748333333
- $00:18:00.390 \longrightarrow 00:18:03.015$ And so if you were just to
- NOTE Confidence: 0.891119748333333
- $00:18:03.015 \longrightarrow 00:18:04.949$ get tested with for HPV,
- NOTE Confidence: 0.891119748333333
- $00:18:04.950 \longrightarrow 00:18:06.546$ you know that you're at risk.
- NOTE Confidence: 0.891119748333333
- $00{:}18{:}06{.}550 \dashrightarrow 00{:}18{:}08{.}566$ But how does that help you to find
- NOTE Confidence: 0.891119748333333
- $00:18:08.566 \rightarrow 00:18:10.399$ those pre cervical cancer cells?
- NOTE Confidence: 0.8697119115
- 00:18:11.150 --> 00:18:14.237 By knowing who is positive for HPV
- NOTE Confidence: 0.8697119115
- $00{:}18{:}14.237 \dashrightarrow 00{:}18{:}17.552$ and then having a little bit more
- NOTE Confidence: 0.8697119115
- $00:18:17.552 \rightarrow 00:18:20.408$ information about which type of HPV,
- NOTE Confidence: 0.8697119115

 $00:18:20.410 \rightarrow 00:18:22.186$ there's hundreds of types out there,

NOTE Confidence: 0.8697119115

 $00{:}18{:}22.190 \dashrightarrow 00{:}18{:}25.102$ but we're really focused on a handful

NOTE Confidence: 0.8697119115

 $00{:}18{:}25{.}102 \dashrightarrow 00{:}18{:}27{.}689$ that cause most cervical cancer.

NOTE Confidence: 0.8697119115

 $00:18:27.690 \rightarrow 00:18:31.310$ It helps guide us to who needs.

NOTE Confidence: 0.8697119115

 $00{:}18{:}31{.}310 \dashrightarrow 00{:}18{:}34{.}614$ Further evaluation in the same way that

NOTE Confidence: 0.8697119115

 $00{:}18{:}34{.}614 \dashrightarrow 00{:}18{:}37{.}810$ a abnormal Pap test would tell us,

NOTE Confidence: 0.8697119115

 $00:18:37.810 \longrightarrow 00:18:40.715$ and more and more science is telling

NOTE Confidence: 0.8697119115

 $00:18:40.715 \longrightarrow 00:18:44.680$ us that the HPV test alone may be as

NOTE Confidence: 0.8697119115

 $00:18:44.680 \dashrightarrow 00:18:48.198$ good if not better than the Pap test.

NOTE Confidence: 0.904031716363636

 $00{:}18{:}49{.}080 \dashrightarrow 00{:}18{:}50{.}754$ So tell us a little bit

NOTE Confidence: 0.904031716363636

 $00{:}18{:}50{.}754 \dashrightarrow 00{:}18{:}52{.}260$ more about that HPV test.

NOTE Confidence: 0.904031716363636

 $00:18:52.260 \longrightarrow 00:18:53.620$ Is that a blood test?

NOTE Confidence: 0.904031716363636

 $00{:}18{:}53.620 \dashrightarrow 00{:}18{:}58.285$ Is that a cervical kind of swab test

NOTE Confidence: 0.904031716363636

00:18:58.285 --> 00:19:01.560 like a PAP except testing for HPV?

NOTE Confidence: 0.904031716363636

 $00:19:01.560 \longrightarrow 00:19:03.060$ How exactly does that happen?

NOTE Confidence: 0.7589009166666667

00:19:03.770 --> 00:19:06.626 Yeah, so from a patient's perspective,

- NOTE Confidence: 0.7589009166666667
- $00:19:06.630 \rightarrow 00:19:09.240$ what they would experience when they
- NOTE Confidence: 0.7589009166666667
- $00:19:09.240 \longrightarrow 00:19:12.196$ go to the doctor is not that different
- NOTE Confidence: 0.7589009166666667
- $00:19:12.196 \rightarrow 00:19:13.806$ from what they were experiencing.
- NOTE Confidence: 0.7589009166666667
- $00:19:13.810 \rightarrow 00:19:16.554$ When if they were getting only a path,
- NOTE Confidence: 0.7589009166666667
- 00:19:16.560 --> 00:19:19.720 it still involves a gynecology
- NOTE Confidence: 0.7589009166666667
- $00:19:19.720 \longrightarrow 00:19:22.248$ exam with a speculum,
- NOTE Confidence: 0.7589009166666667
- $00:19:22.250 \rightarrow 00:19:26.530$ and the specimen is collected at the cervix
- NOTE Confidence: 0.7589009166666667
- $00:19:26.530 \longrightarrow 00:19:30.587$ and then HPV testing is done on that,
- NOTE Confidence: 0.7589009166666667
- $00:19:30.590 \longrightarrow 00:19:33.134$ which also allows for.
- NOTE Confidence: 0.7589009166666667
- 00:19:33.134 --> 00:19:36.940 If in certain conditions, if a pop.
- NOTE Confidence: 0.7589009166666667
- $00:19:36.940 \longrightarrow 00:19:40.240$ Task then needs to be performed later on.
- NOTE Confidence: 0.7589009166666667
- $00{:}19{:}40{.}240 \dashrightarrow 00{:}19{:}43{.}136$ It can be done on that same collection.
- NOTE Confidence: 0.7589009166666667
- $00:19:43.140 \longrightarrow 00:19:44.635$ The patient doesn't need to
- NOTE Confidence: 0.7589009166666667
- $00{:}19{:}44.635 \dashrightarrow 00{:}19{:}46.490$ go back for for another exam.
- NOTE Confidence: 0.894385816875
- $00:19:46.840 \rightarrow 00:19:49.276$ So basically what you're saying is
- NOTE Confidence: 0.894385816875

 $00:19:49.276 \longrightarrow 00:19:52.188$ that either way you're going to have

NOTE Confidence: 0.894385816875

 $00{:}19{:}52.188 \dashrightarrow 00{:}19{:}54.744$ a gynecological exam and kind of a

NOTE Confidence: 0.894385816875

 $00:19:54.744 \rightarrow 00:19:56.760$ specimen that's taken from the cervix,

NOTE Confidence: 0.894385816875

 $00:19:56.760 \longrightarrow 00:19:59.889$ which is either stained to see whether

NOTE Confidence: 0.894385816875

 $00:19:59.889 \rightarrow 00:20:01.720$ there's precancerous cells there,

NOTE Confidence: 0.894385816875

 $00:20:01.720 \rightarrow 00:20:05.016$ like a pap smear or more frequently now.

NOTE Confidence: 0.894385816875

 $00:20:05.020 \longrightarrow 00:20:07.620$ It sounds like gets tested.

NOTE Confidence: 0.894385816875

 $00:20:07.620 \longrightarrow 00:20:10.084$ For HPV and so.

NOTE Confidence: 0.894385816875

 $00{:}20{:}10.084 \dashrightarrow 00{:}20{:}14.490$ If that test is positive for HPV,

NOTE Confidence: 0.894385816875

 $00:20:14.490 \rightarrow 00:20:15.870$ what's the next step?

NOTE Confidence: 0.84451056

 $00{:}20{:}16.020 \dashrightarrow 00{:}20{:}19.873$ This is where a conversation with the

NOTE Confidence: 0.84451056

 $00:20:19.873 \rightarrow 00:20:22.338$ the physician becomes really important.

NOTE Confidence: 0.84451056

 $00{:}20{:}22{.}340 \dashrightarrow 00{:}20{:}25{.}065$ In some cases, the recommendation

NOTE Confidence: 0.84451056

 $00{:}20{:}25.065 \dashrightarrow 00{:}20{:}28.098$ may be needing to do a repeat sooner,

NOTE Confidence: 0.84451056

 $00:20:28.100 \longrightarrow 00:20:29.770$ so maybe a year later

NOTE Confidence: 0.84451056

 $00:20:29.770 \longrightarrow 00:20:31.980$ instead of a few years later.

- NOTE Confidence: 0.84451056
- $00{:}20{:}31{.}980 \dashrightarrow 00{:}20{:}33{.}356$ But in other situations,
- NOTE Confidence: 0.84451056
- $00{:}20{:}33.356 \dashrightarrow 00{:}20{:}36.375$ the next step is going to be the
- NOTE Confidence: 0.84451056
- $00:20:36.375 \rightarrow 00:20:38.147$ recommendation for a procedure
- NOTE Confidence: 0.84451056
- $00:20:38.147 \longrightarrow 00:20:40.698$ called Kolpa Skippy, which is a.
- NOTE Confidence: 0.84451056
- 00:20:40.698 --> 00:20:44.103 Big fancy word to mean looking at the
- NOTE Confidence: 0.84451056
- $00{:}20{:}44.103 \dashrightarrow 00{:}20{:}47.414$ cervix in the office with a microscope
- NOTE Confidence: 0.84451056
- $00{:}20{:}47{.}420 \dashrightarrow 00{:}20{:}50{.}116$ to get a better look at the cervix
- NOTE Confidence: 0.84451056
- $00{:}20{:}50{.}116 \dashrightarrow 00{:}20{:}52{.}840$ and take some very small biopsies.
- NOTE Confidence: 0.84451056
- $00{:}20{:}52{.}840 \dashrightarrow 00{:}20{:}54{.}248$ Again in the office.
- NOTE Confidence: 0.93564674875
- $00{:}20{:}54{.}440 \dashrightarrow 00{:}20{:}56{.}880$ And if you had an abnormal pap smear,
- NOTE Confidence: 0.93564674875
- $00{:}20{:}56.880 \dashrightarrow 00{:}20{:}58.584$ would that be the next step as well?
- NOTE Confidence: 0.851227844
- $00{:}20{:}58{.}700 \dashrightarrow 00{:}21{:}01{.}000$ Exactly the the next steps.
- NOTE Confidence: 0.851227844
- $00:21:01.000 \longrightarrow 00:21:02.985$ The options of next steps
- NOTE Confidence: 0.851227844
- $00{:}21{:}02{.}985 \dashrightarrow 00{:}21{:}04{.}573$ don't really change either.
- NOTE Confidence: 0.851227844
- $00:21:04.580 \longrightarrow 00:21:06.380$ It would have been following
- NOTE Confidence: 0.851227844

 $00:21:06.380 \rightarrow 00:21:08.180$ up with another test sooner,

NOTE Confidence: 0.851227844

00:21:08.180 --> 00:21:10.100 meaning about a year or so

NOTE Confidence: 0.851227844

00:21:10.100 --> 00:21:11.893 or being recommended to have

NOTE Confidence: 0.851227844

00:21:11.893 --> 00:21:13.400 this colposcopy. Procedure

NOTE Confidence: 0.825934834285714

 $00:21:13.870 \rightarrow 00:21:18.504$ and so when you have that procedure.

NOTE Confidence: 0.825934834285714

 $00{:}21{:}18.510 \dashrightarrow 00{:}21{:}20.490$ Is this something that you need

NOTE Confidence: 0.825934834285714

 $00:21:20.490 \longrightarrow 00:21:22.869$ to kind of stay off work from?

NOTE Confidence: 0.825934834285714

00:21:22.870 --> 00:21:25.530 Is it really painful or is this

NOTE Confidence: 0.825934834285714

 $00{:}21{:}25{.}530 \dashrightarrow 00{:}21{:}27{.}609$ something that's kind of you know,

NOTE Confidence: 0.825934834285714

 $00{:}21{:}27.610 \dashrightarrow 00{:}21{:}29.388$ more like a blood test and not

NOTE Confidence: 0.825934834285714

 $00:21:29.388 \longrightarrow 00:21:30.982$ really too bad and you can

NOTE Confidence: 0.825934834285714

 $00:21:30.982 \longrightarrow 00:21:32.524$ get back to living your life.

NOTE Confidence: 0.868987325

 $00{:}21{:}33.850 \dashrightarrow 00{:}21{:}37.890$ The latter it is done in the office.

NOTE Confidence: 0.868987325

00:21:37.890 --> 00:21:41.649 It doesn't require taking the day off

NOTE Confidence: 0.868987325

 $00:21:41.649 \rightarrow 00:21:45.446$ from work beyond the time of the exam.

NOTE Confidence: 0.868987325

 $00:21:45.450 \rightarrow 00:21:49.300$ There's not a recovery period.

- NOTE Confidence: 0.868987325
- $00:21:49.300 \longrightarrow 00:21:53.178$ It's much more like a blood test.
- NOTE Confidence: 0.868987325
- $00:21:53.180 \longrightarrow 00:21:55.460$ Than than some then some
- NOTE Confidence: 0.868987325
- $00:21:55.460 \longrightarrow 00:21:56.828$ larger invasive test.
- NOTE Confidence: 0.891035205
- 00:21:57.400 --> 00:22:00.928 OK, so you go in for your
- NOTE Confidence: 0.891035205
- 00:22:00.928 --> 00:22:02.440 regular gynecological exam.
- NOTE Confidence: 0.891035205
- $00{:}22{:}02{.}440 \dashrightarrow 00{:}22{:}04{.}912$ Your doctor does either a pap
- NOTE Confidence: 0.891035205
- 00:22:04.912 --> 00:22:07.256 smear or more likely an HPV
- NOTE Confidence: 0.891035205
- 00:22:07.256 --> 00:22:09.140 test if it comes back positive,
- NOTE Confidence: 0.891035205
- $00:22:09.140 \longrightarrow 00:22:11.534$ you have a colposcopy you go in.
- NOTE Confidence: 0.891035205
- $00:22:11.540 \longrightarrow 00:22:13.520$ They take a few samples.
- NOTE Confidence: 0.891035205
- $00:22:13.520 \longrightarrow 00:22:15.548$ How long does it take to
- NOTE Confidence: 0.891035205
- $00:22:15.548 \longrightarrow 00:22:16.900$ get those results back?
- NOTE Confidence: 0.891035205
- $00{:}22{:}16{.}900 \dashrightarrow 00{:}22{:}20{.}806$ About 10 days OK and what
- NOTE Confidence: 0.891035205
- $00{:}22{:}20.806 \dashrightarrow 00{:}22{:}22.414$ are they looking for?
- NOTE Confidence: 0.891035205
- $00:22:22.420 \rightarrow 00:22:24.730$ Are they looking for precancerous cells?
- NOTE Confidence: 0.9265644566666667

00:22:25.200 --> 00:22:27.063 Exactly? They're looking

NOTE Confidence: 0.9265644566666667

 $00{:}22{:}27.063 \dashrightarrow 00{:}22{:}28.926$ for precance rous cells.

NOTE Confidence: 0.9265644566666667

 $00:22:28.930 \longrightarrow 00:22:32.840$ We tend to grade pre cancer

NOTE Confidence: 0.926564456666667

 $00:22:32.840 \rightarrow 00:22:35.190$ in at three different levels,

NOTE Confidence: 0.9265644566666667

 $00:22:35.190 \longrightarrow 00:22:38.655$ a level 1, the level 2 or Level 3.

NOTE Confidence: 0.9265644566666667

 $00:22:38.660 \longrightarrow 00:22:41.636$ Anything beyond a Level 3 is

NOTE Confidence: 0.9265644566666667

 $00{:}22{:}41.636 \dashrightarrow 00{:}22{:}43.620$ means invasive cervical cancer,

NOTE Confidence: 0.9265644566666667

 $00:22:43.620 \rightarrow 00:22:45.678$ and then depending on the level,

NOTE Confidence: 0.9265644566666667

 $00{:}22{:}45.680 \dashrightarrow 00{:}22{:}48.090$ what what might be recommended?

NOTE Confidence: 0.9265644566666667

 $00{:}22{:}48.090 \dashrightarrow 00{:}22{:}50.260$ Next varies.

NOTE Confidence: 0.978309843333333

 $00{:}22{:}51{.}460 \dashrightarrow 00{:}22{:}52{.}846$ So tell us more about that.

NOTE Confidence: 0.816002009166667

 $00{:}22{:}54{.}140 \dashrightarrow 00{:}22{:}56{.}688$ So for a level one often referred

NOTE Confidence: 0.816002009166667

 $00{:}22{:}56.688 \dashrightarrow 00{:}22{:}59.125$ to in medical terms as CIN

NOTE Confidence: 0.816002009166667

 $00{:}22{:}59{.}125 \dashrightarrow 00{:}23{:}02{.}350$ one or low grade dysplasia.

NOTE Confidence: 0.816002009166667

 $00:23:02.350 \longrightarrow 00:23:04.370$ The risk of future cervical

NOTE Confidence: 0.816002009166667

 $00:23:04.370 \longrightarrow 00:23:06.390$ cancer is still very low,

- NOTE Confidence: 0.816002009166667
- $00:23:06.390 \longrightarrow 00:23:09.048$ and so we're going to observe.
- NOTE Confidence: 0.816002009166667
- $00:23:09.050 \longrightarrow 00:23:12.600$ Follow that. Observe that with.
- NOTE Confidence: 0.816002009166667
- $00:23:12.600 \rightarrow 00:23:15.690$ Repeat testing and one year.
- NOTE Confidence: 0.816002009166667
- $00:23:15.690 \longrightarrow 00:23:17.748$ When we get to level 2,
- NOTE Confidence: 0.816002009166667
- $00{:}23{:}17.750 \dashrightarrow 00{:}23{:}19.990$ the risk of cervical cancer
- NOTE Confidence: 0.816002009166667
- $00:23:19.990 \longrightarrow 00:23:22.230$ in the future long term,
- NOTE Confidence: 0.816002009166667
- 00:23:22.230 --> 00:23:26.010 if left untreated, starts to increase,
- NOTE Confidence: 0.816002009166667
- $00:23:26.010 \longrightarrow 00:23:29.496$ but the chances of it resolving
- NOTE Confidence: 0.816002009166667
- $00:23:29.496 \longrightarrow 00:23:32.906$ or going away is also there,
- NOTE Confidence: 0.816002009166667
- $00:23:32.906 \longrightarrow 00:23:35.762$ and so that's where there's a
- NOTE Confidence: 0.816002009166667
- $00:23:35.762 \longrightarrow 00:23:38.070$ we factor in a patient's age.
- NOTE Confidence: 0.816002009166667
- $00:23:38.070 \rightarrow 00:23:40.790$ What they may be thinking in terms of
- NOTE Confidence: 0.816002009166667
- 00:23:40.790 --> 00:23:43.398 future fertility and childbearing,
- NOTE Confidence: 0.816002009166667
- $00{:}23{:}43{.}398 \dashrightarrow 00{:}23{:}46{.}006$ and make a recommendation.
- NOTE Confidence: 0.816002009166667
- 00:23:46.010 --> 00:23:46.598 Accordingly,
- NOTE Confidence: 0.816002009166667

 $00:23:46.598 \rightarrow 00:23:50.126$ as to whether we recommend treatment

NOTE Confidence: 0.816002009166667

 $00:23:50.130 \rightarrow 00:23:53.550$ with something called a LEAP procedure,

NOTE Confidence: 0.816002009166667

 $00:23:53.550 \longrightarrow 00:23:55.685$ which we can talk about in a

NOTE Confidence: 0.816002009166667

 $00:23:55.685 \rightarrow 00:23:58.006$ second or following very closely,

NOTE Confidence: 0.816002009166667

 $00:23:58.006 \rightarrow 00:24:01.907$ meaning every six months with a repeat

NOTE Confidence: 0.816002009166667

00:24:01.907 --> 00:24:04.406 colonoscopy for up to two years to

NOTE Confidence: 0.816002009166667

 $00:24:04.406 \longrightarrow 00:24:06.870$ see if it does in fact resolve,

NOTE Confidence: 0.816002009166667

 $00:24:06.870 \longrightarrow 00:24:08.285$ or if there's signs that

NOTE Confidence: 0.816002009166667

 $00{:}24{:}08{.}285 \dashrightarrow 00{:}24{:}09{.}417$ it's starting to worsen,

NOTE Confidence: 0.816002009166667

 $00:24:09.420 \longrightarrow 00:24:09.970$ then say,

NOTE Confidence: 0.816002009166667

 $00{:}24{:}09{.}970 \dashrightarrow 00{:}24{:}11.895$ you know we should just move forward

NOTE Confidence: 0.816002009166667

00:24:11.895 --> 00:24:14.565 with treatment and then by the time

NOTE Confidence: 0.816002009166667

 $00:24:14.565 \longrightarrow 00:24:17.656$ it gets to that Level 3 or a CIN 3.

NOTE Confidence: 0.816002009166667

 $00{:}24{:}17.660 \dashrightarrow 00{:}24{:}20.580$ We say we just need to proceed with

NOTE Confidence: 0.816002009166667

 $00:24:20.580 \rightarrow 00:24:22.419$ treatment without leep procedure.

NOTE Confidence: 0.9211923075

 $00:24:23.280 \longrightarrow 00:24:26.654$ So tell us more about this leep

- NOTE Confidence: 0.9211923075
- 00:24:26.654 --> 00:24:28.670 procedure. In some offices,
- NOTE Confidence: 0.879546226
- $00:24:28.680 \longrightarrow 00:24:30.332$ the LEEP procedure can
- NOTE Confidence: 0.879546226
- $00:24:30.332 \longrightarrow 00:24:32.810$ also be done in the office,
- NOTE Confidence: 0.879546226
- $00:24:32.810 \longrightarrow 00:24:35.874$ it can be very well tolerated with just
- NOTE Confidence: 0.879546226
- $00:24:35.874 \rightarrow 00:24:38.719$ some local anesthetic like lidocaine,
- NOTE Confidence: 0.879546226
- $00:24:38.720 \longrightarrow 00:24:40.430$ similar to what someone might
- NOTE Confidence: 0.879546226
- $00:24:40.430 \longrightarrow 00:24:42.140$ receive for a dental procedure,
- NOTE Confidence: 0.879546226
- $00:24:42.140 \longrightarrow 00:24:44.172$ or it can be done in the operating
- NOTE Confidence: 0.879546226
- $00:24:44.172 \longrightarrow 00:24:46.019$ room as the same day surgery,
- NOTE Confidence: 0.879546226
- $00:24:46.020 \longrightarrow 00:24:48.210$ and it what it involves is
- NOTE Confidence: 0.879546226
- $00:24:48.210 \rightarrow 00:24:50.448$ removing a small portion of the
- NOTE Confidence: 0.879546226
- $00{:}24{:}50{.}448 \dashrightarrow 00{:}24{:}52{.}203$ cervix where the abnormal cells
- NOTE Confidence: 0.879546226
- $00:24:52.203 \longrightarrow 00:24:54.689$ are to get rid of those cells.
- NOTE Confidence: 0.878866731428571
- $00{:}24{:}55{.}610 \dashrightarrow 00{:}24{:}57{.}927$ And then that's it. Then you're done.
- NOTE Confidence: 0.878866731428571
- $00:24:57.930 \longrightarrow 00:24:59.625$ And then you've reduced your
- NOTE Confidence: 0.878866731428571

 $00:24:59.625 \longrightarrow 00:25:01.320$ risk back down to baseline.

NOTE Confidence: 0.909873723333333

 $00{:}25{:}02{.}350 \dashrightarrow 00{:}25{:}07{.}168$ So then we we still do surveillance,

NOTE Confidence: 0.909873723333333

 $00:25:07.168 \longrightarrow 00:25:10.556$ meaning we follow patients every 6 to

NOTE Confidence: 0.909873723333333

 $00{:}25{:}10.556 \dashrightarrow 00{:}25{:}13.724$ 12 months with PAP tests to to make sure

NOTE Confidence: 0.909873723333333

 $00:25:13.813 \rightarrow 00:25:16.628$ that they've truly reduced their risk.

NOTE Confidence: 0.909873723333333

 $00:25:16.630 \rightarrow 00:25:20.722$ The risk never goes completely to baseline,

NOTE Confidence: 0.909873723333333

 $00:25:20.722 \longrightarrow 00:25:24.491$ but it it drops a lot,

NOTE Confidence: 0.909873723333333

 $00:25:24.491 \longrightarrow 00:25:26.519$ and the longer somebody.

NOTE Confidence: 0.909873723333333

 $00:25:26.520 \rightarrow 00:25:30.335$ Goes with having normal or negative testing.

NOTE Confidence: 0.909873723333333

 $00:25:30.340 \rightarrow 00:25:31.660$ After that treatment,

NOTE Confidence: 0.909873723333333

 $00:25:31.660 \rightarrow 00:25:34.300$ they'll last likely they are to

NOTE Confidence: 0.909873723333333

 $00:25:34.300 \longrightarrow 00:25:36.568$ to have the issue come back.

NOTE Confidence: 0.926536835454545

 $00{:}25{:}37{.}810 \dashrightarrow 00{:}25{:}40{.}150$ So you know the next question

NOTE Confidence: 0.926536835454545

 $00:25:40.150 \longrightarrow 00:25:42.250$ is really something I think.

NOTE Confidence: 0.926536835454545

 $00:25:42.250 \rightarrow 00:25:43.840$ As I mentioned before the break,

NOTE Confidence: 0.926536835454545

 $00:25:43.840 \longrightarrow 00:25:46.619$ a lot of people have gotten a

- NOTE Confidence: 0.926536835454545
- $00{:}25{:}46.619 \dashrightarrow 00{:}25{:}49.569$ lot of information and and some
- NOTE Confidence: 0.926536835454545
- $00:25:49.569 \rightarrow 00:25:51.213$ misinformation from the experience
- NOTE Confidence: 0.926536835454545
- $00:25:51.213 \rightarrow 00:25:53.379$ that we've had during the pandemic
- NOTE Confidence: 0.926536835454545
- $00{:}25{:}53{.}379 \dashrightarrow 00{:}25{:}56{.}020$ and one of the things that we've
- NOTE Confidence: 0.926536835454545
- $00{:}25{:}56{.}020 \dashrightarrow 00{:}25{:}57{.}903$ recognized during the pandemic is
- NOTE Confidence: 0.926536835454545
- $00{:}25{:}57{.}903 \dashrightarrow 00{:}25{:}59{.}985$ not only the importance of vaccines,
- NOTE Confidence: 0.926536835454545
- $00{:}25{:}59{.}990 \dashrightarrow 00{:}26{:}04{.}505$ but also the fact that there are
- NOTE Confidence: 0.926536835454545
- $00:26:04.505 \rightarrow 00:26:07.669$ treatments available that may treat.
- NOTE Confidence: 0.926536835454545
- 00:26:07.670 --> 00:26:11.450 That there's some viral illness called COVID,
- NOTE Confidence: 0.926536835454545
- $00{:}26{:}11{.}450 \dashrightarrow 00{:}26{:}13{.}874$ and so I guess one of the questions
- NOTE Confidence: 0.926536835454545
- $00:26:13.874 \rightarrow 00:26:16.698$ that people might be wondering is if HPV
- NOTE Confidence: 0.926536835454545
- $00{:}26{:}16.698 \dashrightarrow 00{:}26{:}19.062$ causes cervical cancer as ide from the
- NOTE Confidence: 0.926536835454545
- $00{:}26{:}19.062 \dashrightarrow 00{:}26{:}21.609$ HPV vaccine that we've talked about,
- NOTE Confidence: 0.926536835454545
- $00{:}26{:}21.610 \dashrightarrow 00{:}26{:}23.582$ that is so effective.
- NOTE Confidence: 0.926536835454545
- $00{:}26{:}23.582 \dashrightarrow 00{:}26{:}27.310$ Are there kind of entry retrovirals
- NOTE Confidence: 0.926536835454545

 $00:26:27.310 \longrightarrow 00:26:30.435$ or monoclonal antibodies or something

NOTE Confidence: 0.926536835454545

 $00{:}26{:}30{.}435 \dashrightarrow 00{:}26{:}32{.}922$ against HPV that are effective in

NOTE Confidence: 0.926536835454545

 $00:26:32.922 \rightarrow 00:26:34.462$ the treatment of cervical cancer?

NOTE Confidence: 0.865616292

 $00:26:35.330 \longrightarrow 00:26:37.234$ That's a great question.

NOTE Confidence: 0.865616292

00:26:37.234 --> 00:26:38.949 Unfortunately, right now the

NOTE Confidence: 0.865616292

 $00{:}26{:}38{.}949 \dashrightarrow 00{:}26{:}41{.}427$ answer is that there's no other

NOTE Confidence: 0.865616292

 $00:26:41.427 \longrightarrow 00:26:43.876$ medical treatments for to to get

NOTE Confidence: 0.865616292

 $00:26:43.876 \longrightarrow 00:26:46.230$ rid of HPV infection there is.

NOTE Confidence: 0.865616292

 $00{:}26{:}46{.}230 \dashrightarrow 00{:}26{:}48{.}238$ That's an area that's gets

NOTE Confidence: 0.865616292

 $00:26:48.238 \longrightarrow 00:26:49.950$ being studied a lot,

NOTE Confidence: 0.865616292

 $00:26:49.950 \rightarrow 00:26:52.686$ but we don't have anything available to us

NOTE Confidence: 0.865616292

 $00:26:52.686 \rightarrow 00:26:54.974$ right now which only further underscores.

NOTE Confidence: 0.865616292

 $00{:}26{:}54{.}974 \dashrightarrow 00{:}26{:}57{.}380$ Why the vaccine and the screening.

NOTE Confidence: 0.865616292

 $00:26:57.380 \longrightarrow 00:26:59.810$ The things we do have available

NOTE Confidence: 0.865616292

 $00{:}26{:}59{.}810 \dashrightarrow 00{:}27{:}01{.}025$ are really important.

NOTE Confidence: 0.865616292

 $00:27:01.030 \rightarrow 00:27:03.543$ The only other thing I would add

- NOTE Confidence: 0.865616292
- $00:27:03.543 \longrightarrow 00:27:05.610$ is you know smoking is.
- NOTE Confidence: 0.865616292
- 00:27:05.610 --> 00:27:07.488 The risk factor for cervical cancer
- NOTE Confidence: 0.865616292
- $00:27:07.488 \longrightarrow 00:27:09.990$ as we know it is for many other
- NOTE Confidence: 0.865616292
- $00:27:09.990 \longrightarrow 00:27:11.590$ cancers and health conditions,
- NOTE Confidence: 0.865616292
- $00:27:11.590 \rightarrow 00:27:15.246$ and so that is something that people can.
- NOTE Confidence: 0.865616292
- $00:27:15.250 \longrightarrow 00:27:17.362$ Focus on to reduce their risk
- NOTE Confidence: 0.865616292
- $00:27:17.362 \longrightarrow 00:27:19.460$ even more is not smoking.
- NOTE Confidence: 0.929070398461539
- $00:27:20.960 \longrightarrow 00:27:23.914$ And it sounds like you know if
- NOTE Confidence: 0.929070398461539
- $00{:}27{:}23.914 \dashrightarrow 00{:}27{:}27.100$ if you were to get vaccinated.
- NOTE Confidence: 0.929070398461539
- 00:27:27.100 --> 00:27:30.159 You reduce your risk of developing this.
- NOTE Confidence: 0.929070398461539
- 00:27:30.160 --> 00:27:32.920 You still need to get these HPV tests
- NOTE Confidence: 0.929070398461539
- $00{:}27{:}32{.}920 \dashrightarrow 00{:}27{:}36{.}224$ and so do you still get them every three
- NOTE Confidence: 0.929070398461539
- $00{:}27{:}36{.}224 \dashrightarrow 00{:}27{:}39{.}380$ years as you would otherwise. Once
- NOTE Confidence: 0.828921021666667
- $00:27:39.390 \longrightarrow 00:27:42.168$ someone is age 30 or older,
- NOTE Confidence: 0.828921021666667
- 00:27:42.170 --> 00:27:44.998 if they have a negative HPV test,
- NOTE Confidence: 0.828921021666667

 $00:27:45.000 \longrightarrow 00:27:46.825$ those screening can be spaced

NOTE Confidence: 0.828921021666667

 $00{:}27{:}46.825 \dashrightarrow 00{:}27{:}48.650$ out to every five years.

NOTE Confidence: 0.828921021666667

 $00{:}27{:}48.650 \dashrightarrow 00{:}27{:}50.426$ That's one of the other beauties

NOTE Confidence: 0.828921021666667

 $00:27:50.426 \rightarrow 00:27:52.354$ of HPV testing is 'cause it's

NOTE Confidence: 0.8289210216666667

 $00:27:52.354 \longrightarrow 00:27:54.049$ testing for the risk factor,

NOTE Confidence: 0.828921021666667

 $00{:}27{:}54.050 \dashrightarrow 00{:}27{:}57.590$ and so a negative test space is you out more.

NOTE Confidence: 0.8495437325

 $00{:}27{:}58{.}370 \dashrightarrow 00{:}28{:}00{.}596$ So the last question I have for

NOTE Confidence: 0.8495437325

 $00{:}28{:}00{.}596 \dashrightarrow 00{:}28{:}03{.}802$ you is when do people stop getting

NOTE Confidence: 0.8495437325

00:28:03.802 --> 00:28:05.690 screened for cervical cancer?

NOTE Confidence: 0.8495437325

 $00:28:05.690 \rightarrow 00:28:07.238$ Is there an upper age limit?

NOTE Confidence: 0.779748601428571

00:28:07.710 --> 00:28:10.178 If someone has had

NOTE Confidence: 0.779748601428571

00:28:10.178 --> 00:28:12.029 adequate negative testing,

NOTE Confidence: 0.779748601428571

 $00:28:12.030 \longrightarrow 00:28:15.032$ we can stop starting at age 65.

NOTE Confidence: 0.779748601428571

 $00:28:15.032 \rightarrow 00:28:19.666$ Sometimes it's hard to have that information,

NOTE Confidence: 0.779748601428571

 $00{:}28{:}19.670 \dashrightarrow 00{:}28{:}22.239$ and so often we can't stop somebody

NOTE Confidence: 0.779748601428571

 $00{:}28{:}22{.}239 \dashrightarrow 00{:}28{:}25{.}168$ at that age and the other situation

00:28:25.168 --> 00:28:27.790 would be if someone had surgical

NOTE Confidence: 0.779748601428571

 $00{:}28{:}27{.}872 \dashrightarrow 00{:}28{:}30{.}446$ removal of the uterus and cervix.

NOTE Confidence: 0.7088453566666667

00:28:30.900 --> 00:28:33.252 Dr Sangini Sheth is an associate

NOTE Confidence: 0.7088453566666667

00:28:33.252 --> 00:28:34.428 professor of obstetrics,

NOTE Confidence: 0.7088453566666667

00:28:34.430 --> 00:28:36.142 gynecology and reproductive sciences

NOTE Confidence: 0.7088453566666667

 $00:28:36.142 \longrightarrow 00:28:38.710$ at the Yale School of Medicine.

NOTE Confidence: 0.7088453566666667

00:28:38.710 --> 00:28:40.798 If you have questions,

NOTE Confidence: 0.708845356666667

 $00{:}28{:}40.798 \dashrightarrow 00{:}28{:}42.824$ the address is canceranswers@yale.edu

NOTE Confidence: 0.7088453566666667

 $00{:}28{:}42.824 \dashrightarrow 00{:}28{:}46.002$ and past editions of the program are

NOTE Confidence: 0.7088453566666667

 $00{:}28{:}46.002 \dashrightarrow 00{:}28{:}48.549$ available in audio and written format.

NOTE Confidence: 0.7088453566666667

00:28:48.550 --> 00:28:48.874 Gailcancercenter.org,

NOTE Confidence: 0.708845356666667

 $00:28:48.874 \rightarrow 00:28:51.466$ we hope you'll join us next week to

NOTE Confidence: 0.7088453566666667

 $00{:}28{:}51{.}466 \dashrightarrow 00{:}28{:}53{.}441$ learn more about the fight against

NOTE Confidence: 0.7088453566666667

 $00{:}28{:}53{.}441 \dashrightarrow 00{:}28{:}55{.}394$ cancer here on Connecticut Public radio

NOTE Confidence: 0.7088453566666667

 $00{:}28{:}55{.}394 \dashrightarrow 00{:}28{:}57{.}212$ funding for Yale Cancer Answers is

 $00{:}28{:}57{.}212 \dashrightarrow 00{:}29{:}00{.}000$ provided by Smilow Cancer Hospital.