

WEBVTT

NOTE duration: "01:06:58.858"

NOTE Confidence: 0.99902344

00:00:00.719 --> 00:00:01.939 Welcome to our,

NOTE Confidence: 0.70564777

00:00:02.720 --> 00:00:03.220 SmiloShares

NOTE Confidence: 0.99853516

00:00:03.600 --> 00:00:05.140 event for this evening.

NOTE Confidence: 0.9817766

00:00:06.000 --> 00:00:07.460 My name is Veda Geary,

NOTE Confidence: 0.9817766

00:00:07.520 --> 00:00:08.880 and, I will be the

NOTE Confidence: 0.9817766

00:00:08.880 --> 00:00:10.740 moderator for the SmiloShares

NOTE Confidence: 0.9996745

00:00:11.119 --> 00:00:12.315 event for today.

NOTE Confidence: 0.99638313

00:00:13.275 --> 00:00:14.155 This is the first in

NOTE Confidence: 0.99638313

00:00:14.155 --> 00:00:15.295 a series of SmiloShares

NOTE Confidence: 0.92903644

00:00:15.674 --> 00:00:18.095 from the Yale Cancer Center's

NOTE Confidence: 0.92903644

00:00:18.235 --> 00:00:19.855 early onset cancer program.

NOTE Confidence: 0.99909127

00:00:20.555 --> 00:00:22.075 And, we wanted this to

NOTE Confidence: 0.99909127

00:00:22.075 --> 00:00:23.914 focus on a very important

NOTE Confidence: 0.99909127

00:00:23.914 --> 00:00:25.890 topic that has been coming

NOTE Confidence: 0.99909127

00:00:25.890 --> 00:00:27.590 forward to recognition,  
NOTE Confidence: 0.98738605

00:00:28.930 --> 00:00:30.850 particularly in the public and  
NOTE Confidence: 0.98738605

00:00:30.850 --> 00:00:31.350 by,  
NOTE Confidence: 0.9724121

00:00:32.050 --> 00:00:32.550 doctors,  
NOTE Confidence: 0.9955833

00:00:33.409 --> 00:00:35.250 to really think about cancers  
NOTE Confidence: 0.9955833

00:00:35.250 --> 00:00:36.530 that are happening in younger  
NOTE Confidence: 0.9955833

00:00:36.530 --> 00:00:37.030 individuals.  
NOTE Confidence: 0.9748792

00:00:37.995 --> 00:00:39.595 And a question that we  
NOTE Confidence: 0.9748792

00:00:39.595 --> 00:00:41.115 are asked a lot is  
NOTE Confidence: 0.9748792

00:00:41.115 --> 00:00:42.475 what can we do for  
NOTE Confidence: 0.9748792

00:00:42.475 --> 00:00:44.015 screening for these cancers,  
NOTE Confidence: 0.9917864

00:00:44.955 --> 00:00:46.555 particularly for cancers that are  
NOTE Confidence: 0.9917864

00:00:46.555 --> 00:00:47.515 some of the most common  
NOTE Confidence: 0.9917864

00:00:47.515 --> 00:00:48.815 cancers that we're noticing,  
NOTE Confidence: 0.9313965

00:00:49.354 --> 00:00:50.255 in the population?  
NOTE Confidence: 0.9852024

00:00:51.050 --> 00:00:52.490 So we decided to focus

NOTE Confidence: 0.9852024  
00:00:52.490 --> 00:00:54.090 on screening for early onset  
NOTE Confidence: 0.9852024  
00:00:54.090 --> 00:00:56.330 breast, cancers focused on breast  
NOTE Confidence: 0.9852024  
00:00:56.330 --> 00:00:57.870 cancer and gastrointestinal  
NOTE Confidence: 0.9658203  
00:00:58.490 --> 00:00:58.990 cancers.  
NOTE Confidence: 0.99836075  
00:01:00.170 --> 00:01:01.210 And so we have an  
NOTE Confidence: 0.99836075  
00:01:01.210 --> 00:01:02.890 expert panel today who will  
NOTE Confidence: 0.99836075  
00:01:02.890 --> 00:01:04.350 be speaking to you  
NOTE Confidence: 0.9375  
00:01:05.814 --> 00:01:06.174 regarding,  
NOTE Confidence: 1  
00:01:06.655 --> 00:01:08.034 factors to think about  
NOTE Confidence: 0.9909668  
00:01:08.414 --> 00:01:09.235 and strategies  
NOTE Confidence: 0.9984375  
00:01:09.615 --> 00:01:11.555 for early onset cancer screening.  
NOTE Confidence: 0.9933675  
00:01:12.094 --> 00:01:13.715 So I am very pleased  
NOTE Confidence: 0.9933675  
00:01:13.774 --> 00:01:14.274 to,  
NOTE Confidence: 0.9724528  
00:01:15.454 --> 00:01:17.475 reintroduce to you our panelists  
NOTE Confidence: 0.9724528  
00:01:17.694 --> 00:01:18.194 today.  
NOTE Confidence: 0.9497884

00:01:19.590 --> 00:01:21.450 Our experts are Amy Wiegand,  
NOTE Confidence: 0.9497884  
00:01:21.509 --> 00:01:22.969 who is a genetic counselor  
NOTE Confidence: 0.9497884  
00:01:23.110 --> 00:01:23.590 from the,  
NOTE Confidence: 0.91039026  
00:01:24.709 --> 00:01:26.549 Yale and Smilow Cancer Genetics  
NOTE Confidence: 0.91039026  
00:01:26.549 --> 00:01:27.689 and Prevention Program,  
NOTE Confidence: 0.79423827  
00:01:28.390 --> 00:01:29.530 doctor Eli Prasaloglu,  
NOTE Confidence: 0.98123604  
00:01:29.909 --> 00:01:31.189 who is a breast surgeon  
NOTE Confidence: 0.98123604  
00:01:31.189 --> 00:01:31.929 here at,  
NOTE Confidence: 0.97159827  
00:01:32.375 --> 00:01:33.655 Yale Cancer Center and Smilow  
NOTE Confidence: 0.97159827  
00:01:33.655 --> 00:01:34.475 Cancer Hospital,  
NOTE Confidence: 0.9021759  
00:01:34.855 --> 00:01:36.555 and doctor Tejal Shreekumar,  
NOTE Confidence: 0.99450684  
00:01:37.095 --> 00:01:38.635 who is a gastrointestinal  
NOTE Confidence: 0.95732725  
00:01:39.095 --> 00:01:41.515 or GI medical oncologist also  
NOTE Confidence: 0.95732725  
00:01:41.735 --> 00:01:43.495 at Yale and Smilow Cancer  
NOTE Confidence: 0.95732725  
00:01:43.495 --> 00:01:43.995 Hospital.  
NOTE Confidence: 0.995894  
00:01:44.470 --> 00:01:46.229 So please send any questions

NOTE Confidence: 0.995894  
00:01:46.229 --> 00:01:47.350 that you have through the  
NOTE Confidence: 0.995894  
00:01:47.350 --> 00:01:47.830 chat,  
NOTE Confidence: 0.99912107  
00:01:48.150 --> 00:01:49.930 as the presenters are speaking.  
NOTE Confidence: 1  
00:01:50.310 --> 00:01:51.190 What we will do is  
NOTE Confidence: 1  
00:01:51.190 --> 00:01:52.250 have each presenter  
NOTE Confidence: 0.985208  
00:01:52.550 --> 00:01:53.990 talk for about ten minutes  
NOTE Confidence: 0.985208  
00:01:53.990 --> 00:01:55.830 or so, and then, we'll  
NOTE Confidence: 0.985208  
00:01:55.830 --> 00:01:57.134 have about five minutes in  
NOTE Confidence: 0.985208  
00:01:57.134 --> 00:01:57.795 between presentations  
NOTE Confidence: 0.9934166  
00:01:58.895 --> 00:02:00.174 so that, we can try  
NOTE Confidence: 0.9934166  
00:02:00.174 --> 00:02:01.054 to field some of the  
NOTE Confidence: 0.9934166  
00:02:01.054 --> 00:02:02.575 questions. And we'll also have  
NOTE Confidence: 0.9934166  
00:02:02.575 --> 00:02:03.795 some time at the end  
NOTE Confidence: 0.9934166  
00:02:03.935 --> 00:02:05.695 for, any final thoughts or  
NOTE Confidence: 0.9934166  
00:02:05.695 --> 00:02:07.075 questions as well. So  
NOTE Confidence: 0.9733073

00:02:07.454 --> 00:02:08.275 at this point,  
NOTE Confidence: 0.954834

00:02:08.974 --> 00:02:09.694 I would,  
NOTE Confidence: 0.8518982

00:02:10.415 --> 00:02:12.680 invite, Amy Weekand to,  
NOTE Confidence: 0.99243164

00:02:13.299 --> 00:02:14.980 start her presentation. I'll stop  
NOTE Confidence: 0.99243164

00:02:14.980 --> 00:02:16.200 sharing. And in the meantime,  
NOTE Confidence: 0.99243164

00:02:16.260 --> 00:02:16.919 I will  
NOTE Confidence: 0.98168945

00:02:17.620 --> 00:02:18.120 introduce,  
NOTE Confidence: 1

00:02:18.900 --> 00:02:19.400 Amy.  
NOTE Confidence: 0.99443614

00:02:20.099 --> 00:02:21.780 So Amy Wiegand is a  
NOTE Confidence: 0.99443614

00:02:21.780 --> 00:02:23.620 licensed and board certified genetic  
NOTE Confidence: 0.99443614

00:02:23.620 --> 00:02:25.459 counselor who graduated from the  
NOTE Confidence: 0.99443614

00:02:25.459 --> 00:02:27.079 Icahn School of Medicine  
NOTE Confidence: 0.943278

00:02:27.495 --> 00:02:28.715 at Mount Sinai,  
NOTE Confidence: 0.9300537

00:02:30.215 --> 00:02:32.055 in, twenty seventeen and has  
NOTE Confidence: 0.9300537

00:02:32.055 --> 00:02:32.855 been a part of the  
NOTE Confidence: 0.9300537

00:02:32.855 --> 00:02:34.875 Smilow Cancer Genetics and Prevention

NOTE Confidence: 0.9300537

00:02:34.935 --> 00:02:36.794 Program for almost nine years.

NOTE Confidence: 0.97835284

00:02:37.815 --> 00:02:39.415 She has seen over two

NOTE Confidence: 0.97835284

00:02:39.415 --> 00:02:41.415 thousand five hundred patients with

NOTE Confidence: 0.97835284

00:02:41.415 --> 00:02:42.919 a personal and or family

NOTE Confidence: 0.97835284

00:02:42.919 --> 00:02:44.680 history of cancer for genetic

NOTE Confidence: 0.97835284

00:02:44.680 --> 00:02:45.180 counseling,

NOTE Confidence: 0.99960935

00:02:45.720 --> 00:02:47.160 and she is passionate about

NOTE Confidence: 0.99960935

00:02:47.160 --> 00:02:49.180 cancer prevention and early detection

NOTE Confidence: 0.92716473

00:02:49.560 --> 00:02:51.160 empowered by results of genetic

NOTE Confidence: 0.92716473

00:02:51.160 --> 00:02:51.660 testing.

NOTE Confidence: 0.9388428

00:02:52.040 --> 00:02:53.660 Her research interests include

NOTE Confidence: 0.9953613

00:02:54.040 --> 00:02:56.585 alternative delivery care models and

NOTE Confidence: 0.9953613

00:02:56.585 --> 00:02:58.505 high risk pancreatic screening as

NOTE Confidence: 0.9953613

00:02:58.505 --> 00:03:00.345 well. And Amy is going

NOTE Confidence: 0.9953613

00:03:00.345 --> 00:03:01.485 to be talking about

NOTE Confidence: 0.98746747

00:03:01.785 --> 00:03:04.185 factors such as family cancer  
NOTE Confidence: 0.98746747

00:03:04.185 --> 00:03:04.685 history  
NOTE Confidence: 0.9928589

00:03:05.065 --> 00:03:06.905 and genetic testing, which can  
NOTE Confidence: 0.9928589

00:03:06.905 --> 00:03:08.764 be very important when thinking  
NOTE Confidence: 0.9928589

00:03:08.825 --> 00:03:10.044 about ways  
NOTE Confidence: 0.9989421

00:03:10.470 --> 00:03:12.150 to have those, pieces of  
NOTE Confidence: 0.9989421

00:03:12.150 --> 00:03:12.650 information  
NOTE Confidence: 0.9989624

00:03:13.030 --> 00:03:14.950 inform who should potentially consider  
NOTE Confidence: 0.9989624

00:03:14.950 --> 00:03:16.090 early cancer screening.  
NOTE Confidence: 0.9870981

00:03:16.470 --> 00:03:17.830 So, Amy, thank you so  
NOTE Confidence: 0.9870981

00:03:17.830 --> 00:03:19.590 much again for participating and  
NOTE Confidence: 0.9870981

00:03:19.590 --> 00:03:20.489 for your presentation.  
NOTE Confidence: 0.94748944

00:03:21.349 --> 00:03:22.310 Great. Thank you so much,  
NOTE Confidence: 0.94748944

00:03:22.310 --> 00:03:23.269 doctor Deary. Thank you for  
NOTE Confidence: 0.94748944

00:03:23.269 --> 00:03:23.865 the introduction.  
NOTE Confidence: 0.9962935

00:03:24.425 --> 00:03:26.105 Good evening, everyone. I'm very

NOTE Confidence: 0.9962935  
00:03:26.105 --> 00:03:27.625 happy to be giving this  
NOTE Confidence: 0.9962935  
00:03:27.625 --> 00:03:28.125 presentation,  
NOTE Confidence: 0.9826563  
00:03:28.505 --> 00:03:29.865 and I will be setting  
NOTE Confidence: 0.9826563  
00:03:29.865 --> 00:03:31.885 the stage for doctor Prasaloglu's  
NOTE Confidence: 0.93200684  
00:03:32.264 --> 00:03:33.325 and doctor Sreekumar's  
NOTE Confidence: 0.9827418  
00:03:33.705 --> 00:03:35.545 talks. So, essentially, what I'll  
NOTE Confidence: 0.9827418  
00:03:35.545 --> 00:03:36.505 be talking about today, we're  
NOTE Confidence: 0.9827418  
00:03:36.505 --> 00:03:37.785 gonna be talking about family  
NOTE Confidence: 0.9827418  
00:03:37.785 --> 00:03:40.260 history and genetic testing, focusing  
NOTE Confidence: 0.9827418  
00:03:40.260 --> 00:03:41.860 on key information that can  
NOTE Confidence: 0.9827418  
00:03:41.860 --> 00:03:43.480 guide early cancer screening.  
NOTE Confidence: 0.9616699  
00:03:44.900 --> 00:03:46.180 So just for the agenda,  
NOTE Confidence: 0.9616699  
00:03:46.180 --> 00:03:47.700 some questions I wanna answer  
NOTE Confidence: 0.9616699  
00:03:47.700 --> 00:03:49.060 are why do some families  
NOTE Confidence: 0.9616699  
00:03:49.060 --> 00:03:50.440 have more cancer than others?  
NOTE Confidence: 0.9819336

00:03:50.935 --> 00:03:52.534 What is a hereditary cancer  
NOTE Confidence: 0.9819336

00:03:52.534 --> 00:03:53.814 syndrome, and how are they  
NOTE Confidence: 0.9819336

00:03:53.814 --> 00:03:54.314 identified,  
NOTE Confidence: 0.9874573

00:03:55.174 --> 00:03:56.795 and how does family history  
NOTE Confidence: 0.9874573

00:03:56.935 --> 00:03:58.875 impact risk assessment and recommendations  
NOTE Confidence: 0.9874573

00:03:59.095 --> 00:04:01.174 for cancer screening at younger  
NOTE Confidence: 0.9874573

00:04:01.174 --> 00:04:01.674 ages.  
NOTE Confidence: 0.99523926

00:04:03.570 --> 00:04:05.190 So what causes cancer?  
NOTE Confidence: 0.9769423

00:04:05.490 --> 00:04:06.850 Just as some background, the  
NOTE Confidence: 0.9769423

00:04:06.850 --> 00:04:09.090 majority of cancer, almost seventy  
NOTE Confidence: 0.9769423

00:04:09.090 --> 00:04:10.610 percent of cancer, is what  
NOTE Confidence: 0.9769423

00:04:10.610 --> 00:04:11.510 we call sporadic.  
NOTE Confidence: 0.9817592

00:04:12.290 --> 00:04:14.450 That occurs by either complete  
NOTE Confidence: 0.9817592

00:04:14.450 --> 00:04:16.310 random chance or a combination  
NOTE Confidence: 0.9817592

00:04:16.370 --> 00:04:18.150 of other factors, including  
NOTE Confidence: 0.96835166

00:04:18.914 --> 00:04:20.995 environmental risk factors, like, for

NOTE Confidence: 0.96835166

00:04:20.995 --> 00:04:22.514 example, having a lot of

NOTE Confidence: 0.96835166

00:04:22.514 --> 00:04:23.875 sun exposure being a risk

NOTE Confidence: 0.96835166

00:04:23.875 --> 00:04:25.175 factor for skin cancer,

NOTE Confidence: 0.9589844

00:04:25.634 --> 00:04:28.275 lifestyle factors, such as tobacco

NOTE Confidence: 0.9589844

00:04:28.275 --> 00:04:30.294 use or excessive alcohol use,

NOTE Confidence: 0.9712402

00:04:30.675 --> 00:04:32.220 also the natural aging process.

NOTE Confidence: 0.9231939

00:04:32.620 --> 00:04:34.060 Aging is something that we

NOTE Confidence: 0.9231939

00:04:34.060 --> 00:04:35.740 can't change. So this is

NOTE Confidence: 0.9231939

00:04:35.740 --> 00:04:37.580 a natural process of aging

NOTE Confidence: 0.9231939

00:04:37.580 --> 00:04:38.700 or getting older can be

NOTE Confidence: 0.9231939

00:04:38.700 --> 00:04:40.000 a risk factor for cancer.

NOTE Confidence: 0.9231939

00:04:40.300 --> 00:04:41.180 And there may be other

NOTE Confidence: 0.9231939

00:04:41.180 --> 00:04:42.779 factors that are unknown, and,

NOTE Confidence: 0.9231939

00:04:42.779 --> 00:04:44.620 again, random chance can sometimes

NOTE Confidence: 0.9231939

00:04:44.620 --> 00:04:46.060 play a role in cancer

NOTE Confidence: 0.9231939

00:04:46.060 --> 00:04:46.560 development.  
NOTE Confidence: 0.98813474  
00:04:48.034 --> 00:04:49.395 Now twenty percent of cancer  
NOTE Confidence: 0.98813474  
00:04:49.395 --> 00:04:50.694 is what we call familial.  
NOTE Confidence: 0.9961751  
00:04:51.235 --> 00:04:52.275 That means you might see  
NOTE Confidence: 0.9961751  
00:04:52.275 --> 00:04:52.775 clusterings  
NOTE Confidence: 0.99740833  
00:04:53.154 --> 00:04:54.435 of the same cancer in  
NOTE Confidence: 0.99740833  
00:04:54.435 --> 00:04:56.115 one family, but we don't  
NOTE Confidence: 0.99740833  
00:04:56.115 --> 00:04:57.574 find one single  
NOTE Confidence: 0.97865516  
00:04:57.875 --> 00:04:59.555 either genetic cause or one  
NOTE Confidence: 0.97865516  
00:04:59.555 --> 00:05:00.455 single explanation.  
NOTE Confidence: 0.9861328  
00:05:01.159 --> 00:05:02.279 So we think that this  
NOTE Confidence: 0.9861328  
00:05:02.279 --> 00:05:03.879 could occur due to factors  
NOTE Confidence: 0.9861328  
00:05:03.879 --> 00:05:05.879 that families share. Families often  
NOTE Confidence: 0.9861328  
00:05:05.879 --> 00:05:07.099 live in the same locations,  
NOTE Confidence: 0.9861328  
00:05:07.240 --> 00:05:09.500 have similar environments, similar diets,  
NOTE Confidence: 0.9903739  
00:05:09.879 --> 00:05:11.319 and then in combination with

NOTE Confidence: 0.9903739  
00:05:11.319 --> 00:05:13.800 maybe smaller genetic factors that  
NOTE Confidence: 0.9903739  
00:05:13.800 --> 00:05:15.259 result in this clustering  
NOTE Confidence: 0.9950823  
00:05:15.560 --> 00:05:16.794 or seeing the same type  
NOTE Confidence: 0.9950823  
00:05:16.794 --> 00:05:17.495 of cancer,  
NOTE Confidence: 0.99690753  
00:05:18.035 --> 00:05:19.154 in multiple people in the  
NOTE Confidence: 0.99690753  
00:05:19.154 --> 00:05:19.654 family.  
NOTE Confidence: 0.93357337  
00:05:21.635 --> 00:05:23.235 And finally, there's the smallest,  
NOTE Confidence: 0.93357337  
00:05:23.475 --> 00:05:25.415 portion, which is hereditary cancer  
NOTE Confidence: 0.93357337  
00:05:25.555 --> 00:05:27.875 that's, is caused by associated  
NOTE Confidence: 0.93357337  
00:05:27.875 --> 00:05:28.915 with five to ten percent  
NOTE Confidence: 0.93357337  
00:05:28.915 --> 00:05:30.839 of all cancer. And hereditary  
NOTE Confidence: 0.93357337  
00:05:30.900 --> 00:05:32.339 cancer is due to having  
NOTE Confidence: 0.93357337  
00:05:32.339 --> 00:05:33.080 an inherited  
NOTE Confidence: 0.9389836  
00:05:33.620 --> 00:05:35.620 harmful genetic change, which we  
NOTE Confidence: 0.9389836  
00:05:35.620 --> 00:05:37.400 call either a pathogenic variant  
NOTE Confidence: 0.9389836

00:05:37.620 --> 00:05:38.760 or gene mutation.  
NOTE Confidence: 0.9985962

00:05:41.380 --> 00:05:42.660 So why is collecting a  
NOTE Confidence: 0.9985962

00:05:42.660 --> 00:05:43.880 family history important?  
NOTE Confidence: 0.99221194

00:05:44.254 --> 00:05:45.854 Family history is a really  
NOTE Confidence: 0.99221194

00:05:45.854 --> 00:05:48.034 important cancer risk assessment tool,  
NOTE Confidence: 0.99221194

00:05:48.175 --> 00:05:49.055 and it can help with  
NOTE Confidence: 0.99221194

00:05:49.055 --> 00:05:50.495 a few things. It can  
NOTE Confidence: 0.99221194

00:05:50.495 --> 00:05:52.815 determine whether genetic testing for  
NOTE Confidence: 0.99221194

00:05:52.815 --> 00:05:55.315 inherited cancer risk is indicated.  
NOTE Confidence: 0.9744466

00:05:55.694 --> 00:05:57.455 It can also determine someone's  
NOTE Confidence: 0.9744466

00:05:57.455 --> 00:05:59.134 personal cancer risks based on  
NOTE Confidence: 0.9744466

00:05:59.134 --> 00:06:00.034 family history,  
NOTE Confidence: 0.9890779

00:06:00.470 --> 00:06:01.669 and it also can determine  
NOTE Confidence: 0.9890779

00:06:01.669 --> 00:06:03.029 the age to begin cancer  
NOTE Confidence: 0.9890779

00:06:03.029 --> 00:06:04.389 screening as well as the  
NOTE Confidence: 0.9890779

00:06:04.389 --> 00:06:06.009 strategy for cancer screening.

NOTE Confidence: 0.9645359  
00:06:07.029 --> 00:06:08.070 Just to start, I'm gonna  
NOTE Confidence: 0.9645359  
00:06:08.070 --> 00:06:09.350 be focusing on number one  
NOTE Confidence: 0.9645359  
00:06:09.350 --> 00:06:11.589 to determine essentially determine whether  
NOTE Confidence: 0.9645359  
00:06:11.589 --> 00:06:13.509 genetic testing for inherited cancer  
NOTE Confidence: 0.9645359  
00:06:13.509 --> 00:06:14.570 risk is indicated.  
NOTE Confidence: 0.96539307  
00:06:16.625 --> 00:06:18.145 As I mentioned, most cancer  
NOTE Confidence: 0.96539307  
00:06:18.145 --> 00:06:19.205 is not hereditary,  
NOTE Confidence: 0.9972331  
00:06:19.585 --> 00:06:20.625 but there can be risk  
NOTE Confidence: 0.9972331  
00:06:20.625 --> 00:06:22.404 factors or red flags  
NOTE Confidence: 0.9977295  
00:06:22.785 --> 00:06:23.585 that could be in a  
NOTE Confidence: 0.9977295  
00:06:23.585 --> 00:06:25.525 person's personal or family history  
NOTE Confidence: 0.9977295  
00:06:25.745 --> 00:06:27.505 that could increase suspicion that  
NOTE Confidence: 0.9977295  
00:06:27.505 --> 00:06:29.444 the cancers could be hereditary.  
NOTE Confidence: 0.99565196  
00:06:30.950 --> 00:06:32.070 One thing that we see  
NOTE Confidence: 0.99565196  
00:06:32.070 --> 00:06:33.270 is that if we see  
NOTE Confidence: 0.99565196

00:06:33.270 --> 00:06:35.430 cancer diagnosed at younger than

NOTE Confidence: 0.99565196

00:06:35.430 --> 00:06:37.190 expected ages for that cancer

NOTE Confidence: 0.99565196

00:06:37.190 --> 00:06:37.690 type,

NOTE Confidence: 0.97894967

00:06:38.070 --> 00:06:39.350 that could be suspicious that

NOTE Confidence: 0.97894967

00:06:39.350 --> 00:06:40.490 the cancer is hereditary.

NOTE Confidence: 0.9852973

00:06:41.510 --> 00:06:42.970 Just as some some examples

NOTE Confidence: 0.9852973

00:06:43.030 --> 00:06:44.805 would include colon cancer or

NOTE Confidence: 0.9852973

00:06:44.805 --> 00:06:46.645 breast cancer diagnosed under the

NOTE Confidence: 0.9852973

00:06:46.645 --> 00:06:47.464 age of fifty.

NOTE Confidence: 0.9800212

00:06:48.805 --> 00:06:50.725 We might also see several

NOTE Confidence: 0.9800212

00:06:50.725 --> 00:06:52.165 family members on the same

NOTE Confidence: 0.9800212

00:06:52.165 --> 00:06:53.205 side of the family with

NOTE Confidence: 0.9800212

00:06:53.205 --> 00:06:54.505 the same type of cancer,

NOTE Confidence: 0.9800212

00:06:54.725 --> 00:06:56.325 such as multiple people in

NOTE Confidence: 0.9800212

00:06:56.325 --> 00:06:57.785 one family with breast cancer.

NOTE Confidence: 0.97817385

00:06:58.710 --> 00:07:00.410 Also, when cancer is hereditary,

NOTE Confidence: 0.9802806  
00:07:01.110 --> 00:07:02.470 certain cancers can be seen  
NOTE Confidence: 0.9802806  
00:07:02.470 --> 00:07:04.730 together through one single gene.  
NOTE Confidence: 0.9802806  
00:07:04.790 --> 00:07:06.150 So sometimes we can see,  
NOTE Confidence: 0.9802806  
00:07:06.150 --> 00:07:07.670 even though the cancers aren't  
NOTE Confidence: 0.9802806  
00:07:07.670 --> 00:07:08.890 the same type of cancer,  
NOTE Confidence: 0.9802806  
00:07:09.110 --> 00:07:10.470 if we see cancers like  
NOTE Confidence: 0.9802806  
00:07:10.470 --> 00:07:12.150 breast and ovarian cancer or  
NOTE Confidence: 0.9802806  
00:07:12.150 --> 00:07:14.125 colon or uterine cancer, that  
NOTE Confidence: 0.9802806  
00:07:14.125 --> 00:07:15.405 pattern could be suspicious of  
NOTE Confidence: 0.9802806  
00:07:15.405 --> 00:07:16.865 hereditary cancer risk.  
NOTE Confidence: 0.94938153  
00:07:17.885 --> 00:07:19.505 Ashkenazi Jewish ancestry,  
NOTE Confidence: 0.9973958  
00:07:20.125 --> 00:07:21.105 people who are Ashkenazi  
NOTE Confidence: 0.9675248  
00:07:21.485 --> 00:07:23.005 Jewish, about one in forty  
NOTE Confidence: 0.9675248  
00:07:23.005 --> 00:07:24.445 people who are Ashkenazi Jewish  
NOTE Confidence: 0.9675248  
00:07:24.445 --> 00:07:25.965 will have hereditary breast and  
NOTE Confidence: 0.9675248

00:07:25.965 --> 00:07:27.505 ovarian cancer syndrome  
NOTE Confidence: 0.9963074

00:07:27.970 --> 00:07:29.090 compared to about one in  
NOTE Confidence: 0.9963074

00:07:29.090 --> 00:07:31.090 four hundred individuals who are  
NOTE Confidence: 0.9963074

00:07:31.090 --> 00:07:31.910 not Ashkenazi.  
NOTE Confidence: 0.91715497

00:07:32.290 --> 00:07:34.290 So sometimes seeing Ashkenazi Jewish  
NOTE Confidence: 0.91715497

00:07:34.290 --> 00:07:34.790 ancestry  
NOTE Confidence: 0.984375

00:07:35.169 --> 00:07:36.389 in combination with  
NOTE Confidence: 0.9830877

00:07:36.690 --> 00:07:37.970 breast or ovarian cancer in  
NOTE Confidence: 0.9830877

00:07:37.970 --> 00:07:39.250 the family can also be  
NOTE Confidence: 0.9830877

00:07:39.250 --> 00:07:39.750 suspicious.  
NOTE Confidence: 0.9746094

00:07:41.425 --> 00:07:42.785 Rare cancers also might be  
NOTE Confidence: 0.9746094

00:07:42.785 --> 00:07:44.165 more likely to be hereditary,  
NOTE Confidence: 0.98398435

00:07:44.545 --> 00:07:46.065 such as seeing breast cancer  
NOTE Confidence: 0.98398435

00:07:46.065 --> 00:07:48.245 in men or pancreatic cancer.  
NOTE Confidence: 0.95251465

00:07:49.745 --> 00:07:51.505 Also, seeing one person with  
NOTE Confidence: 0.95251465

00:07:51.505 --> 00:07:52.965 multiple cancer diagnoses,

NOTE Confidence: 0.9511632

00:07:54.020 --> 00:07:55.220 in in that one person.

NOTE Confidence: 0.9511632

00:07:55.220 --> 00:07:56.580 So for example, someone who

NOTE Confidence: 0.9511632

00:07:56.580 --> 00:07:58.259 is diagnosed with stomach cancer

NOTE Confidence: 0.9511632

00:07:58.259 --> 00:08:00.020 at age fifty and then

NOTE Confidence: 0.9511632

00:08:00.020 --> 00:08:01.880 colon cancer, a separate cancer

NOTE Confidence: 0.9511632

00:08:02.099 --> 00:08:03.160 at age sixty.

NOTE Confidence: 0.97694904

00:08:04.740 --> 00:08:05.940 Cancer on both sides of

NOTE Confidence: 0.97694904

00:08:05.940 --> 00:08:06.979 the body, so that could

NOTE Confidence: 0.97694904

00:08:06.979 --> 00:08:07.800 be bilateral

NOTE Confidence: 0.9592692

00:08:08.180 --> 00:08:09.755 kidney cancer or kidney cancer

NOTE Confidence: 0.9592692

00:08:09.755 --> 00:08:11.695 in both kidneys or bilateral

NOTE Confidence: 0.9592692

00:08:11.835 --> 00:08:12.655 breast cancer.

NOTE Confidence: 0.9404785

00:08:13.995 --> 00:08:15.595 Sometimes advanced cancer might be

NOTE Confidence: 0.9404785

00:08:15.595 --> 00:08:16.895 more likely to be hereditary,

NOTE Confidence: 0.93078613

00:08:17.195 --> 00:08:18.014 so specifically,

NOTE Confidence: 0.99108887

00:08:18.395 --> 00:08:20.395 stage four or metastatic prostate

NOTE Confidence: 0.99108887

00:08:20.395 --> 00:08:20.895 cancer.

NOTE Confidence: 0.9899597

00:08:21.780 --> 00:08:22.980 And finally, of course, if

NOTE Confidence: 0.9899597

00:08:22.980 --> 00:08:24.580 someone has a relative that

NOTE Confidence: 0.9899597

00:08:24.580 --> 00:08:26.420 has a known hereditary cancer

NOTE Confidence: 0.9899597

00:08:26.420 --> 00:08:26.920 syndrome,

NOTE Confidence: 0.999721

00:08:27.540 --> 00:08:28.420 that would also be a

NOTE Confidence: 0.999721

00:08:28.420 --> 00:08:29.700 risk factor for that person

NOTE Confidence: 0.999721

00:08:29.700 --> 00:08:31.640 having hereditary cancer risk.

NOTE Confidence: 0.96008724

00:08:33.875 --> 00:08:35.075 So those are the risk

NOTE Confidence: 0.96008724

00:08:35.075 --> 00:08:36.115 factors that can make us

NOTE Confidence: 0.96008724

00:08:36.115 --> 00:08:37.315 suspicious that cancer could be

NOTE Confidence: 0.96008724

00:08:37.315 --> 00:08:39.154 hereditary, but how does genetic

NOTE Confidence: 0.96008724

00:08:39.154 --> 00:08:40.755 testing actually work? How does

NOTE Confidence: 0.96008724

00:08:40.755 --> 00:08:42.695 identify hereditary cancer risk?

NOTE Confidence: 0.98477936

00:08:43.235 --> 00:08:44.515 So just as some background

NOTE Confidence: 0.98477936  
00:08:44.515 --> 00:08:45.955 briefly, genes can be thought  
NOTE Confidence: 0.98477936  
00:08:45.955 --> 00:08:47.495 of as the instruction manuals  
NOTE Confidence: 0.98477936  
00:08:47.554 --> 00:08:49.019 for our body. We have  
NOTE Confidence: 0.98477936  
00:08:49.019 --> 00:08:50.620 about twenty thousand genes in  
NOTE Confidence: 0.98477936  
00:08:50.620 --> 00:08:51.899 our body. They all do  
NOTE Confidence: 0.98477936  
00:08:51.899 --> 00:08:52.720 different jobs.  
NOTE Confidence: 0.9881487  
00:08:53.259 --> 00:08:54.779 Some genes, they actually determine  
NOTE Confidence: 0.9881487  
00:08:54.779 --> 00:08:55.899 our eye color and other  
NOTE Confidence: 0.9881487  
00:08:55.899 --> 00:08:57.500 factors, but then there's other  
NOTE Confidence: 0.9881487  
00:08:57.500 --> 00:08:58.699 genes that actually are known  
NOTE Confidence: 0.9881487  
00:08:58.699 --> 00:09:00.399 to prevent cancer from developing,  
NOTE Confidence: 0.9881487  
00:09:00.699 --> 00:09:01.500 and these can be thought  
NOTE Confidence: 0.9881487  
00:09:01.500 --> 00:09:03.279 of as cancer prevention genes.  
NOTE Confidence: 0.9912191  
00:09:03.660 --> 00:09:04.514 So you see here on  
NOTE Confidence: 0.9912191  
00:09:04.514 --> 00:09:05.315 the right, this is just  
NOTE Confidence: 0.9912191

00:09:05.315 --> 00:09:06.675 an example of a cancer  
NOTE Confidence: 0.9912191

00:09:06.675 --> 00:09:08.774 prevention gene. All the letters  
NOTE Confidence: 0.9912191

00:09:08.915 --> 00:09:10.995 are DNA, the code that  
NOTE Confidence: 0.9912191

00:09:10.995 --> 00:09:12.695 actually makes up the gene.  
NOTE Confidence: 0.9955037

00:09:13.714 --> 00:09:14.755 And we have two copies  
NOTE Confidence: 0.9955037

00:09:14.755 --> 00:09:15.795 of every single gene in  
NOTE Confidence: 0.9955037

00:09:15.795 --> 00:09:16.675 our body because you get  
NOTE Confidence: 0.9955037

00:09:16.675 --> 00:09:17.875 one from your mother and  
NOTE Confidence: 0.9955037

00:09:17.875 --> 00:09:19.014 one from your father.  
NOTE Confidence: 0.9672607

00:09:20.510 --> 00:09:21.630 So if someone has a  
NOTE Confidence: 0.9672607

00:09:21.630 --> 00:09:23.490 mutation or a pathogenic variant,  
NOTE Confidence: 0.9672607

00:09:23.550 --> 00:09:24.590 one way of thinking about  
NOTE Confidence: 0.9672607

00:09:24.590 --> 00:09:25.470 is that that it's a  
NOTE Confidence: 0.9672607

00:09:25.470 --> 00:09:27.550 spelling error, meaning that there's  
NOTE Confidence: 0.9672607

00:09:27.550 --> 00:09:28.830 a change in the DNA  
NOTE Confidence: 0.9672607

00:09:28.830 --> 00:09:30.270 code that does not allow

NOTE Confidence: 0.9672607  
00:09:30.270 --> 00:09:31.570 that gene to work correctly.  
NOTE Confidence: 0.97630006  
00:09:32.445 --> 00:09:33.085 So if that gene is  
NOTE Confidence: 0.97630006  
00:09:33.085 --> 00:09:34.925 a cancer prevention gene and  
NOTE Confidence: 0.97630006  
00:09:34.925 --> 00:09:36.445 there's a mutation that causes  
NOTE Confidence: 0.97630006  
00:09:36.445 --> 00:09:38.145 it to not work correctly,  
NOTE Confidence: 0.97630006  
00:09:38.205 --> 00:09:39.245 so it can't do its  
NOTE Confidence: 0.97630006  
00:09:39.245 --> 00:09:41.085 job of preventing cancer, that  
NOTE Confidence: 0.97630006  
00:09:41.085 --> 00:09:42.525 person essentially is born with  
NOTE Confidence: 0.97630006  
00:09:42.525 --> 00:09:43.905 a higher risk of developing  
NOTE Confidence: 0.99890137  
00:09:44.285 --> 00:09:45.585 certain types of cancers.  
NOTE Confidence: 0.98257446  
00:09:47.790 --> 00:09:49.230 And so genetic testing or  
NOTE Confidence: 0.98257446  
00:09:49.230 --> 00:09:50.610 germline genetic testing,  
NOTE Confidence: 0.9946675  
00:09:51.230 --> 00:09:53.650 looks for inherited gene mutations  
NOTE Confidence: 0.9946675  
00:09:53.950 --> 00:09:55.070 that would be present in  
NOTE Confidence: 0.9946675  
00:09:55.070 --> 00:09:56.429 this in every single cell  
NOTE Confidence: 0.9946675

00:09:56.429 --> 00:09:57.890 of a person's body.  
NOTE Confidence: 0.99990237

00:09:58.590 --> 00:09:59.710 And if someone has a  
NOTE Confidence: 0.99990237

00:09:59.710 --> 00:10:01.890 pathogenic or inherited gene mutation  
NOTE Confidence: 0.99450684

00:10:02.434 --> 00:10:03.255 that's identified,  
NOTE Confidence: 0.97830635

00:10:03.875 --> 00:10:05.635 those gene mutations can be  
NOTE Confidence: 0.97830635

00:10:05.635 --> 00:10:06.595 passed on to a person  
NOTE Confidence: 0.97830635

00:10:06.675 --> 00:10:07.894 to a person's children.  
NOTE Confidence: 0.97068685

00:10:08.995 --> 00:10:09.954 And so this can be  
NOTE Confidence: 0.97068685

00:10:09.954 --> 00:10:11.235 really helpful because if we  
NOTE Confidence: 0.97068685

00:10:11.235 --> 00:10:12.934 know someone has an inherited  
NOTE Confidence: 0.97068685

00:10:13.154 --> 00:10:15.240 hereditary cancer risk, that can  
NOTE Confidence: 0.97068685

00:10:15.240 --> 00:10:17.080 help clarify that person's own  
NOTE Confidence: 0.97068685

00:10:17.080 --> 00:10:18.940 specific lifetime risk of cancer.  
NOTE Confidence: 0.99159074

00:10:19.880 --> 00:10:21.800 And especially with hereditary cancer  
NOTE Confidence: 0.99159074

00:10:21.800 --> 00:10:23.320 risk, we're much more likely  
NOTE Confidence: 0.99159074

00:10:23.320 --> 00:10:24.920 to see cancers diagnosed at

NOTE Confidence: 0.99159074

00:10:24.920 --> 00:10:27.900 younger ages. So identifying hereditary

NOTE Confidence: 0.99159074

00:10:28.040 --> 00:10:29.505 risk of cancer can actually

NOTE Confidence: 0.99159074

00:10:29.505 --> 00:10:30.565 guide screening

NOTE Confidence: 0.96051896

00:10:30.865 --> 00:10:32.485 and then make management recommendations

NOTE Confidence: 0.96051896

00:10:32.785 --> 00:10:34.645 actually starting at younger ages

NOTE Confidence: 0.96051896

00:10:34.785 --> 00:10:36.005 than the general population.

NOTE Confidence: 0.9826118

00:10:38.465 --> 00:10:39.505 So how does it help?

NOTE Confidence: 0.9826118

00:10:39.505 --> 00:10:40.225 I alluded to it a

NOTE Confidence: 0.9826118

00:10:40.225 --> 00:10:41.040 little bit, but I wanna

NOTE Confidence: 0.9826118

00:10:41.120 --> 00:10:42.720 talk about some examples of

NOTE Confidence: 0.9826118

00:10:42.720 --> 00:10:44.720 hereditary cancer syndromes just to

NOTE Confidence: 0.9826118

00:10:44.720 --> 00:10:46.899 show exactly what screening entails

NOTE Confidence: 0.9913976

00:10:47.360 --> 00:10:48.559 and also to show that

NOTE Confidence: 0.9913976

00:10:48.559 --> 00:10:50.160 earlier screening can be really

NOTE Confidence: 0.9913976

00:10:50.160 --> 00:10:51.699 helpful for people with hereditary

NOTE Confidence: 0.9913976

00:10:51.759 --> 00:10:52.660 cancer syndromes.  
NOTE Confidence: 0.9905369

00:10:53.554 --> 00:10:55.074 Hereditary breast and ovarian cancer  
NOTE Confidence: 0.9905369

00:10:55.074 --> 00:10:56.035 syndrome is one of the  
NOTE Confidence: 0.9905369

00:10:56.035 --> 00:10:57.315 most common ones that that  
NOTE Confidence: 0.9905369

00:10:57.315 --> 00:10:58.834 we talk about. Some people  
NOTE Confidence: 0.9905369

00:10:58.834 --> 00:11:00.274 have heard about these genes  
NOTE Confidence: 0.9905369

00:11:00.274 --> 00:11:02.054 called BRCA one and BRCA  
NOTE Confidence: 0.9905369

00:11:02.274 --> 00:11:03.954 two, also sometimes referred to  
NOTE Confidence: 0.9905369

00:11:03.954 --> 00:11:05.255 as the BRCA genes.  
NOTE Confidence: 0.9928152

00:11:05.880 --> 00:11:07.420 If someone has an inherited  
NOTE Confidence: 0.9928152

00:11:07.559 --> 00:11:09.240 mutation in either BRCA one  
NOTE Confidence: 0.9928152

00:11:09.240 --> 00:11:11.000 or BRCA two, there's an  
NOTE Confidence: 0.9928152

00:11:11.000 --> 00:11:13.179 associated risk of breast, ovarian,  
NOTE Confidence: 0.9928152

00:11:13.400 --> 00:11:13.900 pancreatic,  
NOTE Confidence: 0.99731445

00:11:14.280 --> 00:11:15.420 and prostate cancer.  
NOTE Confidence: 0.9838867

00:11:16.520 --> 00:11:18.300 And there's multiple different recommendations

NOTE Confidence: 0.9838867

00:11:18.440 --> 00:11:20.360 for increased cancer surveillance, and

NOTE Confidence: 0.9838867

00:11:20.360 --> 00:11:21.855 the important thing is that

NOTE Confidence: 0.9640706

00:11:22.415 --> 00:11:23.615 lot of these surveillance and

NOTE Confidence: 0.9640706

00:11:23.615 --> 00:11:25.214 prevention measures start at much

NOTE Confidence: 0.9640706

00:11:25.214 --> 00:11:26.115 younger ages.

NOTE Confidence: 0.9222005

00:11:26.574 --> 00:11:27.554 So, for example,

NOTE Confidence: 0.99869794

00:11:27.934 --> 00:11:29.315 women who are BRCA

NOTE Confidence: 0.98619246

00:11:29.695 --> 00:11:31.135 positive, meaning they have a

NOTE Confidence: 0.98619246

00:11:31.135 --> 00:11:31.635 BRCA

NOTE Confidence: 0.986084

00:11:32.095 --> 00:11:32.915 gene mutation,

NOTE Confidence: 0.96754736

00:11:33.295 --> 00:11:34.495 they are recommended to start

NOTE Confidence: 0.96754736

00:11:34.495 --> 00:11:36.175 breast imaging with annual breast

NOTE Confidence: 0.96754736

00:11:36.175 --> 00:11:37.880 MRI starting at age twenty

NOTE Confidence: 0.96754736

00:11:37.880 --> 00:11:39.559 five as well as annual

NOTE Confidence: 0.96754736

00:11:39.559 --> 00:11:40.920 mammogram that then start at

NOTE Confidence: 0.96754736

00:11:40.920 --> 00:11:41.660 age thirty.  
NOTE Confidence: 0.9967748

00:11:42.120 --> 00:11:43.320 Just for some context, the  
NOTE Confidence: 0.9967748

00:11:43.320 --> 00:11:45.000 average for general population for  
NOTE Confidence: 0.9967748

00:11:45.000 --> 00:11:46.920 women, mammograms are recommended to  
NOTE Confidence: 0.9967748

00:11:46.920 --> 00:11:48.300 start around age forty.  
NOTE Confidence: 0.97372276

00:11:49.080 --> 00:11:50.679 Additionally, because of the associated  
NOTE Confidence: 0.97372276

00:11:50.679 --> 00:11:52.395 risk of ovarian cancer, there  
NOTE Confidence: 0.97372276

00:11:52.395 --> 00:11:54.075 is a recommendation for risk  
NOTE Confidence: 0.97372276

00:11:54.075 --> 00:11:56.495 reducing bilateral salpingo oophorectomy,  
NOTE Confidence: 0.96211594

00:11:56.875 --> 00:11:57.835 which is removal of the  
NOTE Confidence: 0.96211594

00:11:57.835 --> 00:11:59.535 ovaries and the fallopian tubes  
NOTE Confidence: 0.96211594

00:11:59.595 --> 00:12:01.115 at around age forty. So  
NOTE Confidence: 0.96211594

00:12:01.115 --> 00:12:02.875 again, another example of cancer  
NOTE Confidence: 0.96211594

00:12:02.875 --> 00:12:04.875 prevention strategy at a younger  
NOTE Confidence: 0.96211594

00:12:04.875 --> 00:12:05.375 age.  
NOTE Confidence: 0.96274275

00:12:05.940 --> 00:12:07.220 Men are also recommended who

NOTE Confidence: 0.96274275  
00:12:07.220 --> 00:12:08.660 are BRCA positive to start  
NOTE Confidence: 0.96274275  
00:12:08.660 --> 00:12:09.160 prostate  
NOTE Confidence: 0.9291504  
00:12:09.540 --> 00:12:11.220 cancer screening at a younger  
NOTE Confidence: 0.9291504  
00:12:11.220 --> 00:12:12.840 age, so at age forty.  
NOTE Confidence: 0.99609375  
00:12:13.300 --> 00:12:14.679 And other cancer screening  
NOTE Confidence: 0.9373779  
00:12:15.059 --> 00:12:16.100 could be considered would be  
NOTE Confidence: 0.9373779  
00:12:16.100 --> 00:12:17.640 pancreatic cancer screening.  
NOTE Confidence: 0.9908244  
00:12:19.804 --> 00:12:21.404 Another another example of a  
NOTE Confidence: 0.9908244  
00:12:21.404 --> 00:12:23.324 common hereditary cancer syndrome is  
NOTE Confidence: 0.9908244  
00:12:23.324 --> 00:12:25.165 Lynch syndrome. So it's caused  
NOTE Confidence: 0.9908244  
00:12:25.165 --> 00:12:27.165 by inherited mutations in one  
NOTE Confidence: 0.9908244  
00:12:27.165 --> 00:12:28.464 of five different genes.  
NOTE Confidence: 0.9710286  
00:12:29.004 --> 00:12:30.605 Lynch syndrome is associated with  
NOTE Confidence: 0.9710286  
00:12:30.605 --> 00:12:32.524 increased risk of colon, uterine,  
NOTE Confidence: 0.9710286  
00:12:32.524 --> 00:12:33.665 ovarian, pancreatic,  
NOTE Confidence: 0.98078614

00:12:33.970 --> 00:12:35.570 prostate, urinary tract, as well

NOTE Confidence: 0.98078614

00:12:35.570 --> 00:12:37.429 as other different cancer types.

NOTE Confidence: 0.9878906

00:12:38.370 --> 00:12:39.330 And just to review a

NOTE Confidence: 0.9878906

00:12:39.330 --> 00:12:40.290 little bit some of the

NOTE Confidence: 0.9878906

00:12:40.290 --> 00:12:42.550 recommendations for increased cancer surveillance,

NOTE Confidence: 0.97669816

00:12:43.809 --> 00:12:45.170 people with Lynch syndrome are

NOTE Confidence: 0.97669816

00:12:45.170 --> 00:12:46.550 recommended to start colonoscopies

NOTE Confidence: 0.9892578

00:12:47.330 --> 00:12:48.550 in in their twenties

NOTE Confidence: 0.9893799

00:12:49.134 --> 00:12:49.954 or thirties.

NOTE Confidence: 0.9354461

00:12:50.255 --> 00:12:51.214 Just to get us for

NOTE Confidence: 0.9354461

00:12:51.214 --> 00:12:52.975 some context, for the general

NOTE Confidence: 0.9354461

00:12:52.975 --> 00:12:55.394 population, colonoscopy screening is recommended

NOTE Confidence: 0.9354461

00:12:55.454 --> 00:12:56.894 to start around age forty

NOTE Confidence: 0.9354461

00:12:56.894 --> 00:12:57.394 five.

NOTE Confidence: 0.9850464

00:12:58.175 --> 00:12:59.535 Also, we would recommend upper

NOTE Confidence: 0.9850464  
00:12:59.535 --> 00:13:01.375 endoscopy screening starting at age  
NOTE Confidence: 0.9850464  
00:13:01.375 --> 00:13:02.194 thirty five.  
NOTE Confidence: 0.9349546  
00:13:03.020 --> 00:13:04.620 With this also recommendation for  
NOTE Confidence: 0.9349546  
00:13:04.620 --> 00:13:06.700 risk reducing total hysterectomy, so  
NOTE Confidence: 0.9349546  
00:13:06.700 --> 00:13:08.059 removal of the uterus, ovaries,  
NOTE Confidence: 0.9349546  
00:13:08.059 --> 00:13:09.820 and the fallopian tubes between  
NOTE Confidence: 0.9349546  
00:13:09.820 --> 00:13:10.860 the ages of forty five  
NOTE Confidence: 0.9349546  
00:13:10.860 --> 00:13:11.600 and fifty.  
NOTE Confidence: 0.95367074  
00:13:11.980 --> 00:13:13.580 And consideration of screening for  
NOTE Confidence: 0.95367074  
00:13:13.580 --> 00:13:15.179 other types of cancers such  
NOTE Confidence: 0.95367074  
00:13:15.179 --> 00:13:16.700 as urinary tract cancers and  
NOTE Confidence: 0.95367074  
00:13:16.700 --> 00:13:17.600 prostate cancers.  
NOTE Confidence: 0.9728597  
00:13:18.975 --> 00:13:20.335 So just to recap, genetic  
NOTE Confidence: 0.9728597  
00:13:20.335 --> 00:13:22.175 testing, if hereditary cancer risk  
NOTE Confidence: 0.9728597  
00:13:22.175 --> 00:13:22.995 is identified,  
NOTE Confidence: 0.99088544

00:13:23.375 --> 00:13:24.655 that could be really helpful  
NOTE Confidence: 0.99088544

00:13:24.655 --> 00:13:26.655 in determining someone's lifetime risk  
NOTE Confidence: 0.99088544

00:13:26.655 --> 00:13:27.235 of cancers  
NOTE Confidence: 0.975708

00:13:27.695 --> 00:13:29.375 and also determining what screening  
NOTE Confidence: 0.975708

00:13:29.375 --> 00:13:30.300 can start at  
NOTE Confidence: 0.92801553

00:13:30.860 --> 00:13:32.620 at which age. And particularly,  
NOTE Confidence: 0.92801553

00:13:32.620 --> 00:13:33.500 we want we wanna start  
NOTE Confidence: 0.92801553

00:13:33.500 --> 00:13:34.860 at a younger age because  
NOTE Confidence: 0.92801553

00:13:34.860 --> 00:13:35.980 the goal of doing genetic  
NOTE Confidence: 0.92801553

00:13:35.980 --> 00:13:37.899 testing and identifying hereditary cancer  
NOTE Confidence: 0.92801553

00:13:37.899 --> 00:13:39.740 risk is to catch either  
NOTE Confidence: 0.92801553

00:13:39.740 --> 00:13:40.959 catch cancer early  
NOTE Confidence: 0.9975586

00:13:41.339 --> 00:13:42.399 or prevent it.  
NOTE Confidence: 0.9655762

00:13:44.145 --> 00:13:45.425 Now as I mentioned, genetic  
NOTE Confidence: 0.9655762

00:13:45.425 --> 00:13:46.865 testing is is a is  
NOTE Confidence: 0.9655762

00:13:46.865 --> 00:13:48.225 a part of a part

NOTE Confidence: 0.9655762

00:13:48.225 --> 00:13:49.585 of, again, why family history

NOTE Confidence: 0.9655762

00:13:49.585 --> 00:13:51.605 collection is important, but

NOTE Confidence: 0.97508514

00:13:52.065 --> 00:13:53.605 especially when we identify hereditary

NOTE Confidence: 0.97508514

00:13:53.665 --> 00:13:54.945 cancer risk. But what if

NOTE Confidence: 0.97508514

00:13:54.945 --> 00:13:56.885 someone has negative genetic testing?

NOTE Confidence: 0.97508514

00:13:56.910 --> 00:13:57.870 They have a family history

NOTE Confidence: 0.97508514

00:13:57.870 --> 00:13:59.389 of cancer. They have negative

NOTE Confidence: 0.97508514

00:13:59.389 --> 00:14:00.750 genetic testing, which means that

NOTE Confidence: 0.97508514

00:14:00.750 --> 00:14:01.949 they don't have any known

NOTE Confidence: 0.97508514

00:14:01.949 --> 00:14:03.410 hereditary risk of cancer.

NOTE Confidence: 0.9966471

00:14:03.790 --> 00:14:04.990 If we go back to

NOTE Confidence: 0.9966471

00:14:04.990 --> 00:14:06.429 this prior slide of why

NOTE Confidence: 0.9966471

00:14:06.429 --> 00:14:08.209 family history collection is important,

NOTE Confidence: 0.94992065

00:14:08.589 --> 00:14:10.190 family history collection can be

NOTE Confidence: 0.94992065

00:14:10.190 --> 00:14:11.790 really helpful, again, to determine

NOTE Confidence: 0.94992065

00:14:11.790 --> 00:14:12.690 cancer risks.  
NOTE Confidence: 0.96092224

00:14:13.025 --> 00:14:14.625 And also, most importantly, maybe  
NOTE Confidence: 0.96092224

00:14:14.625 --> 00:14:16.225 determine age to begin cancer  
NOTE Confidence: 0.96092224

00:14:16.225 --> 00:14:17.985 screening just based on family  
NOTE Confidence: 0.96092224

00:14:17.985 --> 00:14:18.485 history.  
NOTE Confidence: 0.90103585

00:14:19.985 --> 00:14:21.185 So how does family history  
NOTE Confidence: 0.90103585

00:14:21.185 --> 00:14:22.865 can of cancer impact cancer  
NOTE Confidence: 0.90103585

00:14:22.865 --> 00:14:24.405 risk and screening recommendations?  
NOTE Confidence: 0.98432076

00:14:25.170 --> 00:14:26.210 So as I mentioned, family  
NOTE Confidence: 0.98432076

00:14:26.210 --> 00:14:27.490 history of cancer might be  
NOTE Confidence: 0.98432076

00:14:27.490 --> 00:14:29.010 associated with increased risk to  
NOTE Confidence: 0.98432076

00:14:29.010 --> 00:14:31.410 develop that cancer type even  
NOTE Confidence: 0.98432076

00:14:31.410 --> 00:14:32.770 with negative genetic testing in  
NOTE Confidence: 0.98432076

00:14:32.770 --> 00:14:33.350 the family.  
NOTE Confidence: 0.97505265

00:14:34.050 --> 00:14:35.089 What we see is that  
NOTE Confidence: 0.97505265

00:14:35.089 --> 00:14:36.290 even if someone has negative

NOTE Confidence: 0.97505265  
00:14:36.290 --> 00:14:38.235 or normal genetic testing, if  
NOTE Confidence: 0.97505265  
00:14:38.235 --> 00:14:40.075 someone's more closely related to  
NOTE Confidence: 0.97505265  
00:14:40.075 --> 00:14:41.755 a relative with cancer, that  
NOTE Confidence: 0.97505265  
00:14:41.755 --> 00:14:42.635 might have more of an  
NOTE Confidence: 0.97505265  
00:14:42.635 --> 00:14:44.415 impact on that person's estimated  
NOTE Confidence: 0.97505265  
00:14:44.475 --> 00:14:45.375 risk of cancer.  
NOTE Confidence: 0.90581805  
00:14:45.755 --> 00:14:47.195 So for example, if someone's  
NOTE Confidence: 0.90581805  
00:14:47.195 --> 00:14:48.555 mother is that has history  
NOTE Confidence: 0.90581805  
00:14:48.555 --> 00:14:49.375 of breast cancer,  
NOTE Confidence: 0.9767524  
00:14:49.755 --> 00:14:50.875 that person's own risk of  
NOTE Confidence: 0.9767524  
00:14:50.875 --> 00:14:52.415 breast cancer might be higher  
NOTE Confidence: 0.9767524  
00:14:52.710 --> 00:14:53.910 because they're more closely related  
NOTE Confidence: 0.9767524  
00:14:53.910 --> 00:14:54.810 to their mother  
NOTE Confidence: 0.9838104  
00:14:55.110 --> 00:14:56.230 as compared to if they  
NOTE Confidence: 0.9838104  
00:14:56.230 --> 00:14:57.990 had a first cousin with  
NOTE Confidence: 0.9838104

00:14:57.990 --> 00:14:59.510 breast cancer, so more distantly  
NOTE Confidence: 0.9838104

00:14:59.510 --> 00:15:00.010 related.  
NOTE Confidence: 0.9393605

00:15:01.110 --> 00:15:02.970 Also, younger age to diagnosis  
NOTE Confidence: 0.9393605

00:15:03.030 --> 00:15:04.310 in a family may also  
NOTE Confidence: 0.9393605

00:15:04.310 --> 00:15:05.830 have a greater impact on  
NOTE Confidence: 0.9393605

00:15:05.830 --> 00:15:07.430 a person's estimated risk of  
NOTE Confidence: 0.9393605

00:15:07.430 --> 00:15:09.535 cancer compared to cancers diagnosed  
NOTE Confidence: 0.9393605

00:15:09.535 --> 00:15:10.595 at a later age.  
NOTE Confidence: 0.96706605

00:15:11.135 --> 00:15:12.415 So for example, having a  
NOTE Confidence: 0.96706605

00:15:12.415 --> 00:15:14.095 relative diagnosed with breast cancer  
NOTE Confidence: 0.96706605

00:15:14.095 --> 00:15:15.075 in their thirties  
NOTE Confidence: 0.98899335

00:15:15.615 --> 00:15:16.895 might be related to a  
NOTE Confidence: 0.98899335

00:15:16.895 --> 00:15:18.495 higher estimated risk of cancer  
NOTE Confidence: 0.98899335

00:15:18.495 --> 00:15:20.095 for that person as compared  
NOTE Confidence: 0.98899335

00:15:20.095 --> 00:15:21.215 to if that relative is  
NOTE Confidence: 0.98899335

00:15:21.215 --> 00:15:22.835 diagnosed in their seventies.

NOTE Confidence: 0.98243713

00:15:24.300 --> 00:15:25.340 And so even with a

NOTE Confidence: 0.98243713

00:15:25.340 --> 00:15:27.100 negative genetic test result, increased

NOTE Confidence: 0.98243713

00:15:27.100 --> 00:15:28.460 cancer screening may still be

NOTE Confidence: 0.98243713

00:15:28.460 --> 00:15:28.960 recommended

NOTE Confidence: 0.9813843

00:15:29.340 --> 00:15:30.540 just based on that family

NOTE Confidence: 0.9813843

00:15:30.540 --> 00:15:31.600 history of cancer.

NOTE Confidence: 0.9946733

00:15:32.380 --> 00:15:34.140 And the important thing is

NOTE Confidence: 0.9946733

00:15:34.140 --> 00:15:35.580 that this cancer screening may

NOTE Confidence: 0.9946733

00:15:35.580 --> 00:15:36.780 be recommended to begin at

NOTE Confidence: 0.9946733

00:15:36.780 --> 00:15:37.820 a younger age in the

NOTE Confidence: 0.9946733

00:15:37.820 --> 00:15:38.720 general population

NOTE Confidence: 0.92023927

00:15:39.275 --> 00:15:40.555 if there's younger than average

NOTE Confidence: 0.92023927

00:15:40.555 --> 00:15:42.335 cancer diagnosis in the family.

NOTE Confidence: 0.9315482

00:15:42.875 --> 00:15:44.235 So for breast cancer and

NOTE Confidence: 0.9315482

00:15:44.235 --> 00:15:46.495 doctor Rasaloglu and doctor Sreekumar

NOTE Confidence: 0.9315482

00:15:46.715 --> 00:15:47.755 will discuss this in more  
NOTE Confidence: 0.9315482

00:15:47.755 --> 00:15:48.955 detail, but just as a  
NOTE Confidence: 0.9315482

00:15:48.955 --> 00:15:49.855 brief overview,  
NOTE Confidence: 0.9761963

00:15:50.155 --> 00:15:51.275 if someone has a first  
NOTE Confidence: 0.9761963

00:15:51.275 --> 00:15:53.115 degree relative with breast cancer,  
NOTE Confidence: 0.91923255

00:15:54.480 --> 00:15:56.240 or, like, mother, sister, daughter,  
NOTE Confidence: 0.91923255

00:15:56.240 --> 00:15:57.360 or having a a second  
NOTE Confidence: 0.91923255

00:15:57.360 --> 00:15:59.440 degree relative, aunt, grandmother, or  
NOTE Confidence: 0.91923255

00:15:59.440 --> 00:16:00.260 half sister,  
NOTE Confidence: 0.9847412

00:16:00.640 --> 00:16:02.160 that may be associated with  
NOTE Confidence: 0.9847412

00:16:02.160 --> 00:16:03.120 a higher risk of breast  
NOTE Confidence: 0.9847412

00:16:03.120 --> 00:16:04.500 cancer for that individual.  
NOTE Confidence: 0.8249512

00:16:05.200 --> 00:16:05.940 And particularly,  
NOTE Confidence: 0.94152117

00:16:06.320 --> 00:16:08.075 if there's if if a  
NOTE Confidence: 0.94152117

00:16:08.075 --> 00:16:09.275 relative is diagnosed with breast  
NOTE Confidence: 0.94152117

00:16:09.275 --> 00:16:10.635 cancer at a younger than

NOTE Confidence: 0.94152117  
00:16:10.635 --> 00:16:11.695 expected age,  
NOTE Confidence: 0.99902344  
00:16:12.395 --> 00:16:12.895 starting  
NOTE Confidence: 0.9949951  
00:16:13.275 --> 00:16:15.275 breast MRIs with additional breast  
NOTE Confidence: 0.9949951  
00:16:15.275 --> 00:16:16.495 imaging or mammograms  
NOTE Confidence: 0.9421875  
00:16:16.875 --> 00:16:18.335 might be recommended to begin  
NOTE Confidence: 0.9421875  
00:16:18.475 --> 00:16:20.175 at younger than average ages,  
NOTE Confidence: 0.8795654  
00:16:20.635 --> 00:16:21.755 again, depending on the age  
NOTE Confidence: 0.8795654  
00:16:21.755 --> 00:16:23.295 of the breast cancer diagnosis  
NOTE Confidence: 0.9998372  
00:16:23.889 --> 00:16:24.709 in the family.  
NOTE Confidence: 0.97038436  
00:16:25.810 --> 00:16:27.410 For colon cancer as well,  
NOTE Confidence: 0.97038436  
00:16:27.410 --> 00:16:28.930 having a first degree relative  
NOTE Confidence: 0.97038436  
00:16:28.930 --> 00:16:30.130 such as a parent, sibling,  
NOTE Confidence: 0.97038436  
00:16:30.130 --> 00:16:31.670 or child with colon cancer  
NOTE Confidence: 0.97038436  
00:16:31.889 --> 00:16:33.089 is associated with a higher  
NOTE Confidence: 0.97038436  
00:16:33.089 --> 00:16:34.529 risk to develop colon cancer  
NOTE Confidence: 0.97038436

00:16:34.529 --> 00:16:35.730 when compared to the general  
NOTE Confidence: 0.97038436

00:16:35.730 --> 00:16:36.230 population  
NOTE Confidence: 0.9465332

00:16:36.769 --> 00:16:38.550 even with negative genetic testing.  
NOTE Confidence: 0.9651341

00:16:39.045 --> 00:16:40.345 And so that's why colonoscopy  
NOTE Confidence: 0.9651341

00:16:40.565 --> 00:16:42.805 surveillance is recommended starting at  
NOTE Confidence: 0.9651341

00:16:42.805 --> 00:16:44.404 a younger age if someone  
NOTE Confidence: 0.9651341

00:16:44.404 --> 00:16:45.285 does have a first year  
NOTE Confidence: 0.9651341

00:16:45.285 --> 00:16:47.365 relative with colon cancer, usually  
NOTE Confidence: 0.9651341

00:16:47.365 --> 00:16:49.045 by age forty compared to  
NOTE Confidence: 0.9651341

00:16:49.045 --> 00:16:50.165 age forty five for the  
NOTE Confidence: 0.9651341

00:16:50.165 --> 00:16:51.145 general population  
NOTE Confidence: 0.8807373

00:16:51.765 --> 00:16:53.225 or ten years prior  
NOTE Confidence: 0.9946777

00:16:53.580 --> 00:16:55.360 and then also having colonoscopies  
NOTE Confidence: 0.98154294

00:16:56.220 --> 00:16:57.500 more frequently, so even as  
NOTE Confidence: 0.98154294

00:16:57.500 --> 00:16:59.440 frequently as every five years.  
NOTE Confidence: 0.99609375

00:17:01.100 --> 00:17:02.620 So just as a recap

NOTE Confidence: 0.99609375  
00:17:02.620 --> 00:17:03.760 in terms of reviewing  
NOTE Confidence: 0.9936899  
00:17:04.140 --> 00:17:05.580 the family history of cancer,  
NOTE Confidence: 0.9936899  
00:17:05.580 --> 00:17:06.780 what things to really think  
NOTE Confidence: 0.9936899  
00:17:06.780 --> 00:17:08.080 about is that  
NOTE Confidence: 0.9728665  
00:17:08.984 --> 00:17:09.825 is of course, it can  
NOTE Confidence: 0.9728665  
00:17:09.825 --> 00:17:10.945 be hard to collect sometimes  
NOTE Confidence: 0.9728665  
00:17:10.945 --> 00:17:12.785 really detailed information about family  
NOTE Confidence: 0.9728665  
00:17:12.785 --> 00:17:14.385 history. But the more information  
NOTE Confidence: 0.9728665  
00:17:14.385 --> 00:17:15.345 you have about your family  
NOTE Confidence: 0.9728665  
00:17:15.345 --> 00:17:16.945 history of cancer, the better  
NOTE Confidence: 0.9728665  
00:17:16.945 --> 00:17:18.145 risk assessment that can be  
NOTE Confidence: 0.9728665  
00:17:18.145 --> 00:17:18.645 performed.  
NOTE Confidence: 0.9448353  
00:17:19.105 --> 00:17:19.905 I would say the most  
NOTE Confidence: 0.9448353  
00:17:19.905 --> 00:17:21.505 important thing is knowing what  
NOTE Confidence: 0.9448353  
00:17:21.505 --> 00:17:23.170 the cancer type was, if  
NOTE Confidence: 0.9448353

00:17:23.170 --> 00:17:24.609 it's if possible diagnosed in  
NOTE Confidence: 0.9448353

00:17:24.609 --> 00:17:25.270 a relative,  
NOTE Confidence: 0.9734497

00:17:25.730 --> 00:17:26.950 and their age diagnosis.  
NOTE Confidence: 0.9586792

00:17:27.330 --> 00:17:29.910 Because, again, age diagnosis, especially  
NOTE Confidence: 0.9586792

00:17:29.970 --> 00:17:31.109 young age diagnosis,  
NOTE Confidence: 0.9998372

00:17:31.650 --> 00:17:33.730 that can impact recommendations for  
NOTE Confidence: 0.9998372

00:17:33.730 --> 00:17:34.230 earlier  
NOTE Confidence: 0.9916992

00:17:34.609 --> 00:17:35.510 cancer screening.  
NOTE Confidence: 0.9844037

00:17:36.705 --> 00:17:38.304 Especially if anyone's had cancer  
NOTE Confidence: 0.9844037

00:17:38.304 --> 00:17:39.665 twice in the family, maybe  
NOTE Confidence: 0.9844037

00:17:39.665 --> 00:17:40.785 try to figure out if  
NOTE Confidence: 0.9844037

00:17:40.785 --> 00:17:41.445 it was  
NOTE Confidence: 0.9458618

00:17:41.905 --> 00:17:43.505 a new cancer, so not  
NOTE Confidence: 0.9458618

00:17:43.505 --> 00:17:45.424 on, prior cancer that came  
NOTE Confidence: 0.9458618

00:17:45.424 --> 00:17:46.705 back or maybe it was  
NOTE Confidence: 0.9458618

00:17:46.705 --> 00:17:48.145 in a different part different

NOTE Confidence: 0.9458618  
00:17:48.145 --> 00:17:49.045 part of the body.  
NOTE Confidence: 0.9507107  
00:17:49.919 --> 00:17:50.799 And it can be hard  
NOTE Confidence: 0.9507107  
00:17:50.799 --> 00:17:52.320 especially thinking about family,  
NOTE Confidence: 0.9615184  
00:17:52.720 --> 00:17:54.320 family members, but you don't  
NOTE Confidence: 0.9615184  
00:17:54.320 --> 00:17:55.200 have to go, you know,  
NOTE Confidence: 0.9615184  
00:17:55.200 --> 00:17:56.720 extremely far back to great  
NOTE Confidence: 0.9615184  
00:17:56.720 --> 00:17:58.639 great great grandparents, but focus  
NOTE Confidence: 0.9615184  
00:17:58.639 --> 00:18:00.159 on the close relatives first,  
NOTE Confidence: 0.9615184  
00:18:00.159 --> 00:18:01.379 so first degree relatives,  
NOTE Confidence: 0.97539693  
00:18:01.840 --> 00:18:03.359 then second degree, and then  
NOTE Confidence: 0.97539693  
00:18:03.359 --> 00:18:04.835 third degree. And And as  
NOTE Confidence: 0.97539693  
00:18:04.835 --> 00:18:05.795 I said, do the best  
NOTE Confidence: 0.97539693  
00:18:05.795 --> 00:18:07.715 that you can. Oftentimes, family  
NOTE Confidence: 0.97539693  
00:18:07.715 --> 00:18:09.075 history may not be complete.  
NOTE Confidence: 0.97539693  
00:18:09.075 --> 00:18:10.355 Some people may not disclose  
NOTE Confidence: 0.97539693

00:18:10.355 --> 00:18:10.855 diagnoses,  
NOTE Confidence: 0.9920279

00:18:11.234 --> 00:18:12.035 but all you can do  
NOTE Confidence: 0.9920279

00:18:12.035 --> 00:18:13.475 is really collect the information  
NOTE Confidence: 0.9920279

00:18:13.475 --> 00:18:14.915 that you can and really  
NOTE Confidence: 0.9920279

00:18:14.915 --> 00:18:16.994 focusing on cancer type in  
NOTE Confidence: 0.9920279

00:18:16.994 --> 00:18:18.915 the family and approximate age  
NOTE Confidence: 0.9920279

00:18:18.915 --> 00:18:19.415 diagnosis.  
NOTE Confidence: 0.9838867

00:18:21.290 --> 00:18:22.750 So just as a summary,  
NOTE Confidence: 0.9947754

00:18:23.450 --> 00:18:24.730 specific risk factors in a  
NOTE Confidence: 0.9947754

00:18:24.730 --> 00:18:26.410 family of cancer can increase  
NOTE Confidence: 0.9947754

00:18:26.410 --> 00:18:28.750 suspicion of hereditary cancer syndromes.  
NOTE Confidence: 0.9797257

00:18:29.530 --> 00:18:31.210 Genetic testing can determine if  
NOTE Confidence: 0.9797257

00:18:31.210 --> 00:18:33.225 someone has hereditary cancer risk,  
NOTE Confidence: 0.9797257

00:18:33.385 --> 00:18:34.825 which then can inform their  
NOTE Confidence: 0.9797257

00:18:34.825 --> 00:18:36.345 lifetime risk of cancer and  
NOTE Confidence: 0.9797257

00:18:36.345 --> 00:18:37.645 cancer screening recommendations,

NOTE Confidence: 0.99365234  
00:18:38.184 --> 00:18:38.684 oftentimes  
NOTE Confidence: 0.9267578  
00:18:39.225 --> 00:18:40.984 cancer screening starting at younger  
NOTE Confidence: 0.9267578  
00:18:40.984 --> 00:18:41.484 ages.  
NOTE Confidence: 0.9361128  
00:18:42.184 --> 00:18:43.544 In family history of cancer  
NOTE Confidence: 0.9361128  
00:18:43.544 --> 00:18:45.225 alone, even with negative genetic  
NOTE Confidence: 0.9361128  
00:18:45.225 --> 00:18:46.664 testing, may still impact the  
NOTE Confidence: 0.9361128  
00:18:46.664 --> 00:18:48.780 person's cancer risk estimates and  
NOTE Confidence: 0.9361128  
00:18:48.780 --> 00:18:49.760 screening recommendations,  
NOTE Confidence: 0.9172363  
00:18:50.300 --> 00:18:51.820 even possibly starting at younger  
NOTE Confidence: 0.9172363  
00:18:51.820 --> 00:18:52.320 ages.  
NOTE Confidence: 0.97749025  
00:18:52.860 --> 00:18:54.300 And collecting a detailed family  
NOTE Confidence: 0.97749025  
00:18:54.300 --> 00:18:55.500 history of cancer can be  
NOTE Confidence: 0.97749025  
00:18:55.500 --> 00:18:57.280 key in forming a personalized  
NOTE Confidence: 0.97749025  
00:18:57.420 --> 00:18:59.280 cancer screening and prevention plan.  
NOTE Confidence: 0.92198443  
00:19:00.734 --> 00:19:01.615 I'll just take a moment  
NOTE Confidence: 0.92198443

00:19:01.615 --> 00:19:03.135 to highlight our team here.  
NOTE Confidence: 0.92198443

00:19:03.135 --> 00:19:04.014 Doctor Geary is gonna talk  
NOTE Confidence: 0.92198443

00:19:04.014 --> 00:19:04.815 a little bit more about  
NOTE Confidence: 0.92198443

00:19:04.815 --> 00:19:06.335 it, but I have the  
NOTE Confidence: 0.92198443

00:19:06.335 --> 00:19:07.635 privilege of working with,  
NOTE Confidence: 0.80419225

00:19:08.174 --> 00:19:09.775 some very excellent providers including  
NOTE Confidence: 0.80419225

00:19:09.775 --> 00:19:10.515 doctor Prasaloglu,  
NOTE Confidence: 0.9667236

00:19:11.054 --> 00:19:12.095 as well as other high  
NOTE Confidence: 0.9667236

00:19:12.095 --> 00:19:13.859 risk providers who see patients,  
NOTE Confidence: 0.9667236

00:19:13.859 --> 00:19:14.900 a great team of genetic  
NOTE Confidence: 0.9667236

00:19:14.900 --> 00:19:17.320 counselors, clinical, genetic clinical coordinators,  
NOTE Confidence: 0.9753418

00:19:17.700 --> 00:19:19.460 and genetic counseling assistants, and  
NOTE Confidence: 0.9753418

00:19:19.460 --> 00:19:20.580 we're able to see patients  
NOTE Confidence: 0.9753418

00:19:20.580 --> 00:19:21.960 all across the state.  
NOTE Confidence: 0.96358097

00:19:23.619 --> 00:19:24.980 And I now will have  
NOTE Confidence: 0.96358097

00:19:24.980 --> 00:19:26.179 some time for questions, and,

NOTE Confidence: 0.96358097

00:19:26.179 --> 00:19:26.900 of course, I will be

NOTE Confidence: 0.96358097

00:19:26.900 --> 00:19:27.780 available at the end if

NOTE Confidence: 0.96358097

00:19:27.780 --> 00:19:28.820 people have any any other

NOTE Confidence: 0.96358097

00:19:28.820 --> 00:19:30.035 questions at that time.

NOTE Confidence: 1

00:19:31.455 --> 00:19:31.955 Wonderful.

NOTE Confidence: 0.99243164

00:19:32.415 --> 00:19:34.035 Thank you so much, Amy,

NOTE Confidence: 0.99243164

00:19:34.095 --> 00:19:35.795 for that really insightful presentation.

NOTE Confidence: 0.9960716

00:19:36.655 --> 00:19:38.015 And, it really does set

NOTE Confidence: 0.9960716

00:19:38.015 --> 00:19:39.935 the stage for thinking about

NOTE Confidence: 0.9960716

00:19:39.935 --> 00:19:40.435 factors,

NOTE Confidence: 0.9859483

00:19:41.295 --> 00:19:43.100 relevant to not only breast

NOTE Confidence: 0.9859483

00:19:43.100 --> 00:19:44.399 cancer and the gastrointestinal,

NOTE Confidence: 0.96818036

00:19:45.179 --> 00:19:47.259 cancers like colon cancer, but

NOTE Confidence: 0.96818036

00:19:47.259 --> 00:19:48.779 but also beyond. So when

NOTE Confidence: 0.96818036

00:19:48.779 --> 00:19:50.220 we think about cancers across

NOTE Confidence: 0.96818036

00:19:50.220 --> 00:19:51.200 the board. So,  
NOTE Confidence: 0.99397784

00:19:52.619 --> 00:19:54.059 I don't actually see any  
NOTE Confidence: 0.99397784

00:19:54.059 --> 00:19:56.059 questions right now, that have  
NOTE Confidence: 0.99397784

00:19:56.059 --> 00:19:56.799 come through.  
NOTE Confidence: 0.9946289

00:19:57.325 --> 00:19:57.805 So,  
NOTE Confidence: 0.97457886

00:19:58.205 --> 00:19:59.325 we can go forward. And  
NOTE Confidence: 0.97457886

00:19:59.325 --> 00:20:00.765 if anyone has any questions,  
NOTE Confidence: 0.97457886

00:20:00.765 --> 00:20:02.445 even for presentations that have  
NOTE Confidence: 0.97457886

00:20:02.445 --> 00:20:02.945 been,  
NOTE Confidence: 0.9911914

00:20:03.805 --> 00:20:05.325 completed, please go ahead and  
NOTE Confidence: 0.9911914

00:20:05.325 --> 00:20:06.365 put them in the QA  
NOTE Confidence: 0.9911914

00:20:06.365 --> 00:20:08.125 or the chat, and, I  
NOTE Confidence: 0.9911914

00:20:08.125 --> 00:20:09.565 will definitely bring them forward  
NOTE Confidence: 0.9911914

00:20:09.565 --> 00:20:11.025 as we move along. So,  
NOTE Confidence: 0.99969953

00:20:11.885 --> 00:20:13.480 thank you so much. We  
NOTE Confidence: 0.99969953

00:20:13.480 --> 00:20:15.159 will now move along to

NOTE Confidence: 0.99969953  
00:20:15.159 --> 00:20:16.380 our next presenter  
NOTE Confidence: 0.83410645  
00:20:17.240 --> 00:20:17.960 who is,  
NOTE Confidence: 0.7581787  
00:20:18.359 --> 00:20:19.659 doctor Eli Persologlu.  
NOTE Confidence: 0.99748886  
00:20:20.039 --> 00:20:21.240 And while we pull the  
NOTE Confidence: 0.99748886  
00:20:21.240 --> 00:20:22.059 slides up,  
NOTE Confidence: 0.99472046  
00:20:22.520 --> 00:20:24.279 I will, give an introduction  
NOTE Confidence: 0.99472046  
00:20:24.279 --> 00:20:25.260 for doctor Persologlu.  
NOTE Confidence: 0.98121995  
00:20:26.455 --> 00:20:28.294 Doctor Prasaloglu is an assistant  
NOTE Confidence: 0.98121995  
00:20:28.294 --> 00:20:30.394 professor of breast surgical oncology  
NOTE Confidence: 0.98121995  
00:20:30.455 --> 00:20:31.595 at Yale University,  
NOTE Confidence: 0.91502106  
00:20:32.695 --> 00:20:34.294 and, school of medicine and  
NOTE Confidence: 0.91502106  
00:20:34.294 --> 00:20:35.755 the Smilow Cancer Hospital.  
NOTE Confidence: 0.97853  
00:20:36.294 --> 00:20:37.654 She's also the physician leader  
NOTE Confidence: 0.97853  
00:20:37.654 --> 00:20:39.195 for high risk breast care  
NOTE Confidence: 0.97853  
00:20:39.255 --> 00:20:40.534 in the cancer genetics and  
NOTE Confidence: 0.97853

00:20:40.534 --> 00:20:41.514 prevention program.  
NOTE Confidence: 0.97254133

00:20:41.869 --> 00:20:43.170 She is a board certified  
NOTE Confidence: 0.97254133

00:20:43.230 --> 00:20:45.070 OB GYN who graduated from  
NOTE Confidence: 0.97254133

00:20:45.070 --> 00:20:46.750 the University of Chicago School  
NOTE Confidence: 0.97254133

00:20:46.750 --> 00:20:47.410 of Medicine  
NOTE Confidence: 0.9845581

00:20:47.710 --> 00:20:49.010 and completed her residency,  
NOTE Confidence: 0.99853516

00:20:49.550 --> 00:20:51.070 training in OB GYN at  
NOTE Confidence: 0.99853516

00:20:51.070 --> 00:20:51.890 Brown University  
NOTE Confidence: 0.9644531

00:20:52.350 --> 00:20:53.550 and then her fellowship in  
NOTE Confidence: 0.9644531

00:20:53.550 --> 00:20:55.410 breast surgery at Yale University.  
NOTE Confidence: 0.9328613

00:20:56.265 --> 00:20:57.085 Doctor Prasaloglu's  
NOTE Confidence: 0.9940863

00:20:57.465 --> 00:20:58.825 joint training in breast and  
NOTE Confidence: 0.9940863

00:20:58.825 --> 00:20:59.325 gynecologic  
NOTE Confidence: 0.9992676

00:20:59.705 --> 00:21:01.645 surgery allows for comprehensive  
NOTE Confidence: 0.96669924

00:21:01.945 --> 00:21:03.965 counseling on breast cancer care,  
NOTE Confidence: 0.9913411

00:21:04.265 --> 00:21:05.645 focusing on oncofertility,

NOTE Confidence: 0.9871419  
00:21:06.905 --> 00:21:07.405 menopausal,  
NOTE Confidence: 0.99523926  
00:21:08.185 --> 00:21:10.240 care, and sexual effects of  
NOTE Confidence: 0.99523926  
00:21:10.240 --> 00:21:10.740 treatment.  
NOTE Confidence: 0.9836914  
00:21:11.200 --> 00:21:12.400 She is also a health  
NOTE Confidence: 0.9836914  
00:21:12.400 --> 00:21:14.820 services researcher studying decision making  
NOTE Confidence: 0.9943673  
00:21:15.200 --> 00:21:16.980 among high risk gene carriers,  
NOTE Confidence: 0.9943673  
00:21:17.200 --> 00:21:19.520 pregnancy associated cancer, quality of  
NOTE Confidence: 0.9943673  
00:21:19.520 --> 00:21:21.220 life, and financial toxicity.  
NOTE Confidence: 0.9865007  
00:21:21.685 --> 00:21:23.045 So doctor Prasaloglu will be  
NOTE Confidence: 0.9865007  
00:21:23.045 --> 00:21:24.725 talking about risk based breast  
NOTE Confidence: 0.9865007  
00:21:24.725 --> 00:21:26.565 cancer screening approach approaches and  
NOTE Confidence: 0.9865007  
00:21:26.565 --> 00:21:28.244 how this impacts screening for  
NOTE Confidence: 0.9865007  
00:21:28.244 --> 00:21:29.845 early onset breast cancer. Thank  
NOTE Confidence: 0.9865007  
00:21:29.845 --> 00:21:31.225 you very much, doctor Prasaloglu.  
NOTE Confidence: 0.9732428  
00:21:32.165 --> 00:21:33.605 Thanks so much, doctor Geary,  
NOTE Confidence: 0.9732428

00:21:33.605 --> 00:21:35.060 and thanks to everyone who's  
NOTE Confidence: 0.9732428

00:21:35.060 --> 00:21:36.340 listening in live as well  
NOTE Confidence: 0.9732428

00:21:36.340 --> 00:21:37.220 as those who listen to  
NOTE Confidence: 0.9732428

00:21:37.220 --> 00:21:38.840 our webinar recorded later.  
NOTE Confidence: 0.9970215

00:21:39.380 --> 00:21:40.260 Amy, that was such a  
NOTE Confidence: 0.9970215

00:21:40.260 --> 00:21:42.020 wonderful presentation and nicely teed  
NOTE Confidence: 0.9970215

00:21:42.020 --> 00:21:42.820 me up for a lot  
NOTE Confidence: 0.9970215

00:21:42.820 --> 00:21:44.119 of the things we'll discuss.  
NOTE Confidence: 0.97583896

00:21:44.900 --> 00:21:46.580 So, when we think about  
NOTE Confidence: 0.97583896

00:21:46.580 --> 00:21:48.225 breast cancer, we know that  
NOTE Confidence: 0.97583896

00:21:48.225 --> 00:21:49.744 early onset breast cancer is  
NOTE Confidence: 0.97583896

00:21:49.744 --> 00:21:50.785 on the rise. Here are  
NOTE Confidence: 0.97583896

00:21:50.785 --> 00:21:52.305 just a couple of news  
NOTE Confidence: 0.97583896

00:21:52.305 --> 00:21:53.825 postings from the past year,  
NOTE Confidence: 0.97583896

00:21:53.825 --> 00:21:55.025 year and a half talking  
NOTE Confidence: 0.97583896

00:21:55.025 --> 00:21:56.705 about both celebrities as well

NOTE Confidence: 0.97583896  
00:21:56.705 --> 00:21:58.545 as, you know, regular people  
NOTE Confidence: 0.97583896  
00:21:58.545 --> 00:22:00.465 who are being diagnosed earlier  
NOTE Confidence: 0.97583896  
00:22:00.465 --> 00:22:01.830 and earlier with breast cancer.  
NOTE Confidence: 0.98381835  
00:22:02.390 --> 00:22:04.010 So, when given the opportunity  
NOTE Confidence: 0.98381835  
00:22:04.070 --> 00:22:05.269 to think about this problem  
NOTE Confidence: 0.98381835  
00:22:05.269 --> 00:22:06.230 and talk to you all  
NOTE Confidence: 0.98381835  
00:22:06.230 --> 00:22:07.429 today, I wanted to dive  
NOTE Confidence: 0.98381835  
00:22:07.429 --> 00:22:08.809 into a couple of things.  
NOTE Confidence: 0.9816284  
00:22:09.830 --> 00:22:11.049 The first is to review  
NOTE Confidence: 0.9816284  
00:22:11.109 --> 00:22:12.470 a little bit about what  
NOTE Confidence: 0.9816284  
00:22:12.470 --> 00:22:14.230 the current breast cancer screening  
NOTE Confidence: 0.9816284  
00:22:14.230 --> 00:22:15.750 recommendations are and how that  
NOTE Confidence: 0.9816284  
00:22:15.750 --> 00:22:17.075 has shifted over time,  
NOTE Confidence: 0.9926351  
00:22:17.775 --> 00:22:18.734 to talk a little bit  
NOTE Confidence: 0.9926351  
00:22:18.734 --> 00:22:20.494 about the subset of patients  
NOTE Confidence: 0.9926351

00:22:20.494 --> 00:22:22.095 that are considered high risk,  
NOTE Confidence: 0.9926351

00:22:22.095 --> 00:22:22.855 as well as to give  
NOTE Confidence: 0.9926351

00:22:22.855 --> 00:22:24.034 a few case examples.  
NOTE Confidence: 0.9164429

00:22:26.815 --> 00:22:28.355 So, the United States,  
NOTE Confidence: 0.96669227

00:22:29.340 --> 00:22:31.260 Protective Services Task Force used  
NOTE Confidence: 0.96669227

00:22:31.260 --> 00:22:32.940 to recommend screening for breast  
NOTE Confidence: 0.96669227

00:22:32.940 --> 00:22:34.619 cancer in average risk women  
NOTE Confidence: 0.96669227

00:22:34.619 --> 00:22:35.660 starting at the age of  
NOTE Confidence: 0.96669227

00:22:35.660 --> 00:22:36.160 fifty.  
NOTE Confidence: 0.9903906

00:22:36.619 --> 00:22:38.140 But just last year, they  
NOTE Confidence: 0.9903906

00:22:38.140 --> 00:22:39.820 actually updated this to recommend  
NOTE Confidence: 0.9903906

00:22:39.820 --> 00:22:41.340 screening beginning at the age  
NOTE Confidence: 0.9903906

00:22:41.340 --> 00:22:43.115 of forty, thinking about doing  
NOTE Confidence: 0.9903906

00:22:43.115 --> 00:22:45.054 that likely every two years.  
NOTE Confidence: 0.99780273

00:22:46.075 --> 00:22:48.075 This brought their recommendations closer  
NOTE Confidence: 0.99780273

00:22:48.075 --> 00:22:49.054 to other organizations

NOTE Confidence: 0.9496528  
00:22:49.514 --> 00:22:50.715 and I will highlight here  
NOTE Confidence: 0.9496528  
00:22:50.715 --> 00:22:52.014 that this big organization  
NOTE Confidence: 0.74560547  
00:22:52.475 --> 00:22:52.975 which,  
NOTE Confidence: 0.95825195  
00:22:53.835 --> 00:22:55.355 takes the lead or sort  
NOTE Confidence: 0.95825195  
00:22:55.355 --> 00:22:57.375 of drives many insurance companies  
NOTE Confidence: 0.95825195  
00:22:57.434 --> 00:22:58.820 and their coverage decisions,  
NOTE Confidence: 0.9558327  
00:22:59.359 --> 00:23:00.320 does say we should be  
NOTE Confidence: 0.9558327  
00:23:00.320 --> 00:23:02.799 assessing patients with individualized risk  
NOTE Confidence: 0.9558327  
00:23:02.799 --> 00:23:03.299 assessments  
NOTE Confidence: 0.94657177  
00:23:03.760 --> 00:23:04.720 and then refer to our  
NOTE Confidence: 0.94657177  
00:23:04.720 --> 00:23:06.240 counselors such as Amy and  
NOTE Confidence: 0.94657177  
00:23:06.240 --> 00:23:08.000 her colleagues for genetic counseling  
NOTE Confidence: 0.94657177  
00:23:08.000 --> 00:23:09.380 and testing if warranted.  
NOTE Confidence: 0.92996216  
00:23:11.525 --> 00:23:13.465 Other major organizations agree.  
NOTE Confidence: 0.9469141  
00:23:13.845 --> 00:23:15.684 Early onset screening is very  
NOTE Confidence: 0.9469141

00:23:15.684 --> 00:23:17.445 important and for years the  
NOTE Confidence: 0.9469141

00:23:17.445 --> 00:23:19.205 American Society of Breast Surgeons  
NOTE Confidence: 0.9469141

00:23:19.205 --> 00:23:20.164 as well as the American  
NOTE Confidence: 0.9469141

00:23:20.164 --> 00:23:22.025 College of Obstetricians and Gynecologists  
NOTE Confidence: 0.9875837

00:23:22.725 --> 00:23:24.965 has recommended starting screening for  
NOTE Confidence: 0.9875837

00:23:24.965 --> 00:23:26.645 average risk women as young  
NOTE Confidence: 0.9875837

00:23:26.645 --> 00:23:28.859 as forty and continuing that  
NOTE Confidence: 0.9875837

00:23:28.859 --> 00:23:30.460 at least until age seventy  
NOTE Confidence: 0.9875837

00:23:30.460 --> 00:23:30.960 five.  
NOTE Confidence: 0.98082316

00:23:31.500 --> 00:23:32.859 Now, of course, our focus  
NOTE Confidence: 0.98082316

00:23:32.859 --> 00:23:34.220 today is thinking about early  
NOTE Confidence: 0.98082316

00:23:34.220 --> 00:23:36.220 onset cancers, which in the  
NOTE Confidence: 0.98082316

00:23:36.220 --> 00:23:37.659 breast world is generally thought  
NOTE Confidence: 0.98082316

00:23:37.659 --> 00:23:39.119 about as less than fifty,  
NOTE Confidence: 0.98082316

00:23:39.340 --> 00:23:40.220 but I think it's an  
NOTE Confidence: 0.98082316

00:23:40.220 --> 00:23:40.720 important,

NOTE Confidence: 0.9480957  
00:23:41.705 --> 00:23:43.305 point here to take a  
NOTE Confidence: 0.9480957  
00:23:43.305 --> 00:23:44.685 take a step and remember  
NOTE Confidence: 0.9804164  
00:23:45.225 --> 00:23:46.744 that patients, regardless of their  
NOTE Confidence: 0.9804164  
00:23:46.744 --> 00:23:48.285 age, we should be making  
NOTE Confidence: 0.9804164  
00:23:48.505 --> 00:23:50.205 thoughtful decisions about screening  
NOTE Confidence: 0.9733887  
00:23:50.505 --> 00:23:51.385 even if you're on the  
NOTE Confidence: 0.9733887  
00:23:51.385 --> 00:23:52.765 older end of that spectrum.  
NOTE Confidence: 0.9754761  
00:23:53.225 --> 00:23:54.744 In fact, the American Society  
NOTE Confidence: 0.9754761  
00:23:54.744 --> 00:23:56.609 of Breast Surgeons recommends continuing  
NOTE Confidence: 0.9754761  
00:23:56.609 --> 00:23:58.530 screening until life expectancy is  
NOTE Confidence: 0.9754761  
00:23:58.530 --> 00:24:00.130 less than ten years. And  
NOTE Confidence: 0.9754761  
00:24:00.130 --> 00:24:01.330 in my practice, I tell  
NOTE Confidence: 0.9754761  
00:24:01.330 --> 00:24:03.250 patients, especially family members of  
NOTE Confidence: 0.9754761  
00:24:03.250 --> 00:24:04.930 those diagnosed with early onset  
NOTE Confidence: 0.9754761  
00:24:04.930 --> 00:24:06.530 breast cancer, but as long  
NOTE Confidence: 0.9754761

00:24:06.530 --> 00:24:07.490 as you're healthy enough that

NOTE Confidence: 0.9754761

00:24:07.490 --> 00:24:08.450 you would do something with

NOTE Confidence: 0.9754761

00:24:08.450 --> 00:24:10.050 the information you receive from

NOTE Confidence: 0.9754761

00:24:10.050 --> 00:24:11.910 a mammogram, screening is very

NOTE Confidence: 0.98408777

00:24:13.645 --> 00:24:15.244 appropriate. So what does it

NOTE Confidence: 0.98408777

00:24:15.244 --> 00:24:16.765 mean to do risk based

NOTE Confidence: 0.98408777

00:24:16.765 --> 00:24:18.625 screening or to do formalized

NOTE Confidence: 0.98408777

00:24:18.685 --> 00:24:19.425 risk assessments?

NOTE Confidence: 0.93706596

00:24:19.965 --> 00:24:21.725 We know that a wide

NOTE Confidence: 0.93706596

00:24:21.725 --> 00:24:23.505 host of organizations, including

NOTE Confidence: 0.9792132

00:24:24.125 --> 00:24:25.505 the American College of Radiologists,

NOTE Confidence: 0.9792132

00:24:25.725 --> 00:24:27.244 the American College of Surgeons,

NOTE Confidence: 0.9792132

00:24:27.244 --> 00:24:28.859 and other groups listed there

NOTE Confidence: 0.9792132

00:24:29.159 --> 00:24:30.859 recommend doing a risk assessment

NOTE Confidence: 0.9792132

00:24:31.080 --> 00:24:33.080 no older, no later than

NOTE Confidence: 0.9792132

00:24:33.080 --> 00:24:34.220 age twenty five.

NOTE Confidence: 0.9630263

00:24:34.600 --> 00:24:36.119 And that is because by

NOTE Confidence: 0.9630263

00:24:36.119 --> 00:24:37.799 screening at forty, while we

NOTE Confidence: 0.9630263

00:24:37.799 --> 00:24:39.159 capture a large percentage of

NOTE Confidence: 0.9630263

00:24:39.159 --> 00:24:41.159 patients, we're missing patients that

NOTE Confidence: 0.9630263

00:24:41.159 --> 00:24:43.635 have personal or familial risks

NOTE Confidence: 0.9630263

00:24:43.775 --> 00:24:44.515 that significantly

NOTE Confidence: 0.9958684

00:24:44.815 --> 00:24:46.255 increase the chance of getting

NOTE Confidence: 0.9958684

00:24:46.255 --> 00:24:48.015 a breast cancer diagnosis less

NOTE Confidence: 0.9958684

00:24:48.015 --> 00:24:48.994 than age forty.

NOTE Confidence: 0.9948382

00:24:50.975 --> 00:24:52.415 Our goal here is to

NOTE Confidence: 0.9948382

00:24:52.415 --> 00:24:53.234 think critically

NOTE Confidence: 0.9519348

00:24:53.535 --> 00:24:55.555 and do risk tailored individualized

NOTE Confidence: 0.9519348

00:24:55.855 --> 00:24:57.380 care for patients. So to

NOTE Confidence: 0.9519348

00:24:57.380 --> 00:24:59.220 say, not just on broad

NOTE Confidence: 0.9519348

00:24:59.220 --> 00:24:59.720 strokes,

NOTE Confidence: 0.9878472

00:25:00.419 --> 00:25:01.700 everyone should get screening at  
NOTE Confidence: 0.9878472

00:25:01.700 --> 00:25:03.000 age forty, but rather,  
NOTE Confidence: 0.97580296

00:25:03.380 --> 00:25:04.500 you know, you with your  
NOTE Confidence: 0.97580296

00:25:04.500 --> 00:25:06.039 personal and family history.  
NOTE Confidence: 0.9978693

00:25:06.340 --> 00:25:07.460 How do we think about  
NOTE Confidence: 0.9978693

00:25:07.460 --> 00:25:09.940 whether additional screening modalities beyond  
NOTE Confidence: 0.9978693

00:25:09.940 --> 00:25:10.440 mammogram  
NOTE Confidence: 0.99593097

00:25:10.740 --> 00:25:12.225 or earlier screening would be  
NOTE Confidence: 0.99593097

00:25:12.225 --> 00:25:12.725 relevant.  
NOTE Confidence: 0.9857178

00:25:13.825 --> 00:25:15.025 And so, you know, this  
NOTE Confidence: 0.9857178

00:25:15.025 --> 00:25:16.005 begs the question,  
NOTE Confidence: 0.99504393

00:25:16.625 --> 00:25:18.065 who is high risk? When  
NOTE Confidence: 0.99504393

00:25:18.065 --> 00:25:19.505 we think about breast cancer,  
NOTE Confidence: 0.99504393

00:25:19.505 --> 00:25:20.385 what does it mean to  
NOTE Confidence: 0.99504393

00:25:20.385 --> 00:25:21.685 be in this high risk,  
NOTE Confidence: 0.9916992

00:25:22.305 --> 00:25:23.205 breast category?

NOTE Confidence: 0.9706421  
00:25:24.070 --> 00:25:25.690 And really, it it boils  
NOTE Confidence: 0.9706421  
00:25:25.750 --> 00:25:27.270 down to having a lifetime  
NOTE Confidence: 0.9706421  
00:25:27.270 --> 00:25:28.790 risk greater than about twenty  
NOTE Confidence: 0.9706421  
00:25:28.790 --> 00:25:29.290 percent.  
NOTE Confidence: 0.94625854  
00:25:30.150 --> 00:25:32.230 In contrast, the average woman's  
NOTE Confidence: 0.94625854  
00:25:32.230 --> 00:25:33.109 risk, and and I should  
NOTE Confidence: 0.94625854  
00:25:33.109 --> 00:25:34.070 have said as a caveat  
NOTE Confidence: 0.94625854  
00:25:34.070 --> 00:25:34.570 upfront,  
NOTE Confidence: 0.9841684  
00:25:35.270 --> 00:25:36.550 men and women can both  
NOTE Confidence: 0.9841684  
00:25:36.550 --> 00:25:38.230 get breast cancer. Certainly, we  
NOTE Confidence: 0.9841684  
00:25:38.230 --> 00:25:39.525 should also be thinking about  
NOTE Confidence: 0.9841684  
00:25:39.525 --> 00:25:41.045 gender diversity. And so when  
NOTE Confidence: 0.9841684  
00:25:41.045 --> 00:25:42.165 I say women, what I  
NOTE Confidence: 0.9841684  
00:25:42.165 --> 00:25:43.765 really mean is assigned female  
NOTE Confidence: 0.9841684  
00:25:43.765 --> 00:25:45.445 at birth, so people born  
NOTE Confidence: 0.9841684

00:25:45.445 --> 00:25:47.145 with female reproductive organs.

NOTE Confidence: 0.9952567

00:25:48.085 --> 00:25:49.285 But the average, you know,

NOTE Confidence: 0.9952567

00:25:49.285 --> 00:25:50.885 person who's assigned female at

NOTE Confidence: 0.9952567

00:25:50.885 --> 00:25:52.244 birth, their lifetime risk is

NOTE Confidence: 0.9952567

00:25:52.244 --> 00:25:53.925 about twelve to thirteen percent.

NOTE Confidence: 0.9952567

00:25:53.925 --> 00:25:54.425 So

NOTE Confidence: 0.9674225

00:25:54.919 --> 00:25:56.760 our high risk cutoff is

NOTE Confidence: 0.9674225

00:25:56.760 --> 00:25:58.119 about double, a little bit

NOTE Confidence: 0.9674225

00:25:58.119 --> 00:25:59.240 less than that compared to

NOTE Confidence: 0.9674225

00:25:59.240 --> 00:25:59.559 other,

NOTE Confidence: 0.99690753

00:26:00.359 --> 00:26:01.419 average risk people.

NOTE Confidence: 0.9616699

00:26:01.880 --> 00:26:03.400 And so as Amy nicely

NOTE Confidence: 0.9616699

00:26:03.400 --> 00:26:03.900 highlighted,

NOTE Confidence: 0.99662274

00:26:04.520 --> 00:26:06.200 this does include people that

NOTE Confidence: 0.99662274

00:26:06.200 --> 00:26:07.400 have a family history of

NOTE Confidence: 0.99662274

00:26:07.400 --> 00:26:08.220 breast cancer.

NOTE Confidence: 0.951052  
00:26:09.675 --> 00:26:11.275 It includes individuals who have  
NOTE Confidence: 0.951052  
00:26:11.275 --> 00:26:13.115 a specific genetic risk of  
NOTE Confidence: 0.951052  
00:26:13.115 --> 00:26:14.235 breast cancer, such as the  
NOTE Confidence: 0.951052  
00:26:14.235 --> 00:26:15.855 BRCA syndrome she mentioned.  
NOTE Confidence: 0.9366777  
00:26:18.075 --> 00:26:19.935 Patients who have had personal  
NOTE Confidence: 0.9366777  
00:26:20.075 --> 00:26:21.595 chest wall radiation. So this  
NOTE Confidence: 0.9366777  
00:26:21.595 --> 00:26:22.820 is not your usual chest  
NOTE Confidence: 0.9366777  
00:26:22.820 --> 00:26:24.180 x-ray, but actually if you've  
NOTE Confidence: 0.9366777  
00:26:24.180 --> 00:26:25.560 had a Hodgkin's lymphoma  
NOTE Confidence: 0.97201  
00:26:26.020 --> 00:26:27.380 and had what's called mantle  
NOTE Confidence: 0.97201  
00:26:27.380 --> 00:26:28.660 radiation to the chest, you're  
NOTE Confidence: 0.97201  
00:26:28.660 --> 00:26:29.700 at much higher risk of  
NOTE Confidence: 0.97201  
00:26:29.700 --> 00:26:30.600 cancer development  
NOTE Confidence: 0.9603446  
00:26:31.060 --> 00:26:32.100 even in the absence of  
NOTE Confidence: 0.9603446  
00:26:32.100 --> 00:26:33.000 family history.  
NOTE Confidence: 0.99633104

00:26:34.755 --> 00:26:36.295 Patients who have had personal  
NOTE Confidence: 0.99633104

00:26:36.595 --> 00:26:38.994 abnormal or atypical biopsies in  
NOTE Confidence: 0.99633104

00:26:38.994 --> 00:26:39.575 the past,  
NOTE Confidence: 0.9993164

00:26:41.395 --> 00:26:42.435 as well as a whole  
NOTE Confidence: 0.9993164

00:26:42.435 --> 00:26:44.535 host of other environmental factors.  
NOTE Confidence: 0.98880005

00:26:44.994 --> 00:26:45.955 And so, you know, I  
NOTE Confidence: 0.98880005

00:26:45.955 --> 00:26:46.920 really like this,  
NOTE Confidence: 0.9904929

00:26:47.480 --> 00:26:49.480 infographic because it helps divide  
NOTE Confidence: 0.9904929

00:26:49.480 --> 00:26:50.520 out the things that we  
NOTE Confidence: 0.9904929

00:26:50.520 --> 00:26:51.720 have control over and the  
NOTE Confidence: 0.9904929

00:26:51.720 --> 00:26:52.940 things that we do not.  
NOTE Confidence: 0.9904929

00:26:53.080 --> 00:26:54.280 So many patients that I  
NOTE Confidence: 0.9904929

00:26:54.280 --> 00:26:55.240 see in my high risk  
NOTE Confidence: 0.9904929

00:26:55.240 --> 00:26:57.100 clinic before cancer development  
NOTE Confidence: 0.9566275

00:26:57.560 --> 00:26:59.400 and, also those that I  
NOTE Confidence: 0.9566275

00:26:59.400 --> 00:27:00.840 see, you know, after cancer

NOTE Confidence: 0.9566275

00:27:00.840 --> 00:27:02.265 has been diagnosed say, well,

NOTE Confidence: 0.9566275

00:27:02.425 --> 00:27:03.545 you know, what caused this?

NOTE Confidence: 0.9566275

00:27:03.545 --> 00:27:04.744 What could I do? And

NOTE Confidence: 0.9566275

00:27:04.744 --> 00:27:05.244 unfortunately,

NOTE Confidence: 0.99772763

00:27:06.265 --> 00:27:07.625 the three main risk factors

NOTE Confidence: 0.99772763

00:27:07.625 --> 00:27:09.085 for developing a breast cancer

NOTE Confidence: 0.99772763

00:27:09.145 --> 00:27:10.105 are being born,

NOTE Confidence: 0.9980469

00:27:10.744 --> 00:27:11.965 biologically female,

NOTE Confidence: 0.97558594

00:27:12.345 --> 00:27:13.705 getting older, and your family

NOTE Confidence: 0.97558594

00:27:13.705 --> 00:27:14.905 history, none of which you

NOTE Confidence: 0.97558594

00:27:14.905 --> 00:27:16.205 have any control over.

NOTE Confidence: 0.9789768

00:27:17.250 --> 00:27:19.090 Additional things listed there include

NOTE Confidence: 0.9789768

00:27:19.090 --> 00:27:21.090 reproductive history, such as not

NOTE Confidence: 0.9789768

00:27:21.090 --> 00:27:22.290 having had children or not

NOTE Confidence: 0.9789768

00:27:22.290 --> 00:27:23.590 having breastfed children,

NOTE Confidence: 0.9882929

00:27:24.530 --> 00:27:26.290 your menstrual history, so lifetime

NOTE Confidence: 0.9882929

00:27:26.290 --> 00:27:27.970 exposure to estrogen, and the

NOTE Confidence: 0.9882929

00:27:27.970 --> 00:27:29.250 density of your breast tissue,

NOTE Confidence: 0.9882929

00:27:29.250 --> 00:27:30.369 which you have no control

NOTE Confidence: 0.9882929

00:27:30.369 --> 00:27:30.869 over.

NOTE Confidence: 0.98289657

00:27:31.385 --> 00:27:32.985 There are some modifiable risk

NOTE Confidence: 0.98289657

00:27:32.985 --> 00:27:34.025 factors that we speak to

NOTE Confidence: 0.98289657

00:27:34.025 --> 00:27:35.885 patients about such as supplemental

NOTE Confidence: 0.98289657

00:27:36.105 --> 00:27:37.325 estrogen and progesterone.

NOTE Confidence: 0.9887207

00:27:37.785 --> 00:27:39.645 There's some debate and and

NOTE Confidence: 0.9887207

00:27:39.785 --> 00:27:41.705 nuance to whether all forms

NOTE Confidence: 0.9887207

00:27:41.705 --> 00:27:42.744 increase the risk of breast

NOTE Confidence: 0.9887207

00:27:42.744 --> 00:27:43.865 cancer, so I encourage you

NOTE Confidence: 0.9887207

00:27:43.865 --> 00:27:44.905 to speak to your doctor

NOTE Confidence: 0.9887207

00:27:44.905 --> 00:27:45.785 as it's not a one

NOTE Confidence: 0.9887207

00:27:45.785 --> 00:27:47.410 size fits all. But we

NOTE Confidence: 0.9887207  
00:27:47.410 --> 00:27:48.790 do know that some supplemental  
NOTE Confidence: 0.9859009  
00:27:49.170 --> 00:27:50.790 hormones do increase risk.  
NOTE Confidence: 0.96936977  
00:27:51.570 --> 00:27:52.609 You know, whether or not  
NOTE Confidence: 0.96936977  
00:27:52.609 --> 00:27:53.730 you breastfeed in the age  
NOTE Confidence: 0.96936977  
00:27:53.730 --> 00:27:55.490 of your first child modulates  
NOTE Confidence: 0.96936977  
00:27:55.490 --> 00:27:56.450 your risk as well as  
NOTE Confidence: 0.96936977  
00:27:56.450 --> 00:27:58.290 things like obesity and alcohol  
NOTE Confidence: 0.96936977  
00:27:58.290 --> 00:27:58.790 consumption.  
NOTE Confidence: 0.9979894  
00:28:01.285 --> 00:28:02.244 You can tell that this  
NOTE Confidence: 0.9979894  
00:28:02.244 --> 00:28:03.765 is a popular graphic. I  
NOTE Confidence: 0.9979894  
00:28:03.765 --> 00:28:04.805 know that Amy had it  
NOTE Confidence: 0.9979894  
00:28:04.805 --> 00:28:05.385 in her,  
NOTE Confidence: 0.9878845  
00:28:06.005 --> 00:28:07.205 in her presentation, so I  
NOTE Confidence: 0.9878845  
00:28:07.205 --> 00:28:08.565 won't belabor this point, but  
NOTE Confidence: 0.9878845  
00:28:08.565 --> 00:28:10.185 just to remind you that  
NOTE Confidence: 0.9878845

00:28:10.325 --> 00:28:12.085 genetic testing and risk assessment

NOTE Confidence: 0.9878845

00:28:12.085 --> 00:28:13.145 is not the same.

NOTE Confidence: 0.9664781

00:28:13.519 --> 00:28:14.559 And when we find out

NOTE Confidence: 0.9664781

00:28:14.559 --> 00:28:15.840 that someone's high risk for

NOTE Confidence: 0.9664781

00:28:15.840 --> 00:28:17.840 whatever reason, we think about

NOTE Confidence: 0.9664781

00:28:17.840 --> 00:28:19.119 high risk breast care in

NOTE Confidence: 0.9664781

00:28:19.119 --> 00:28:20.960 two arms. We say, we

NOTE Confidence: 0.9664781

00:28:20.960 --> 00:28:22.820 wanna focus on early detection,

NOTE Confidence: 0.9664781

00:28:22.879 --> 00:28:24.639 high risk screening. So catching

NOTE Confidence: 0.9664781

00:28:24.639 --> 00:28:25.139 cancer

NOTE Confidence: 0.9939716

00:28:25.785 --> 00:28:27.225 as early as possible with

NOTE Confidence: 0.9939716

00:28:27.225 --> 00:28:28.905 regular breast exams and high

NOTE Confidence: 0.9939716

00:28:28.905 --> 00:28:30.045 risk breast imaging.

NOTE Confidence: 0.93119884

00:28:30.825 --> 00:28:31.865 But we can also think

NOTE Confidence: 0.93119884

00:28:31.865 --> 00:28:33.785 about tools for risk reduction

NOTE Confidence: 0.93119884

00:28:33.785 --> 00:28:35.385 such as medication that reduce

NOTE Confidence: 0.93119884  
00:28:35.385 --> 00:28:37.145 risk or even risk reducing  
NOTE Confidence: 0.93119884  
00:28:37.145 --> 00:28:37.645 surgery.  
NOTE Confidence: 0.9970703  
00:28:38.210 --> 00:28:39.810 In that instance, we're hoping  
NOTE Confidence: 0.9970703  
00:28:39.810 --> 00:28:41.590 to prevent cancer from ultimately  
NOTE Confidence: 0.9970703  
00:28:41.650 --> 00:28:42.150 developing.  
NOTE Confidence: 0.98108333  
00:28:43.810 --> 00:28:44.850 And so, you know, our  
NOTE Confidence: 0.98108333  
00:28:44.850 --> 00:28:46.550 focus today is about screening.  
NOTE Confidence: 0.98108333  
00:28:46.610 --> 00:28:48.450 So, both identification of patients  
NOTE Confidence: 0.98108333  
00:28:48.450 --> 00:28:49.570 at high risk as well  
NOTE Confidence: 0.98108333  
00:28:49.570 --> 00:28:50.770 as specifics of what that  
NOTE Confidence: 0.98108333  
00:28:50.770 --> 00:28:52.230 screening would look like.  
NOTE Confidence: 0.96605283  
00:28:52.595 --> 00:28:54.115 And as Amy alluded to,  
NOTE Confidence: 0.96605283  
00:28:54.115 --> 00:28:55.395 many patients that are gene  
NOTE Confidence: 0.96605283  
00:28:55.395 --> 00:28:57.635 positive regardless of family history  
NOTE Confidence: 0.96605283  
00:28:57.635 --> 00:28:59.475 would qualify for early screening.  
NOTE Confidence: 0.96605283

00:28:59.475 --> 00:28:59.975 So,  
NOTE Confidence: 0.97562665

00:29:00.355 --> 00:29:01.475 you know, we know that  
NOTE Confidence: 0.97562665

00:29:01.475 --> 00:29:03.395 many gene related breast cancers  
NOTE Confidence: 0.97562665

00:29:03.395 --> 00:29:05.315 are diagnosed in one's thirties  
NOTE Confidence: 0.97562665

00:29:05.315 --> 00:29:06.915 and early forties. And so  
NOTE Confidence: 0.97562665

00:29:06.915 --> 00:29:08.370 waiting until forty to start  
NOTE Confidence: 0.97562665

00:29:08.370 --> 00:29:08.870 screening  
NOTE Confidence: 0.98558134

00:29:09.410 --> 00:29:10.690 doesn't make sense because we  
NOTE Confidence: 0.98558134

00:29:10.690 --> 00:29:11.970 are likely to catch those  
NOTE Confidence: 0.98558134

00:29:11.970 --> 00:29:13.490 cancers when they're larger and  
NOTE Confidence: 0.98558134

00:29:13.490 --> 00:29:14.230 more aggressive.  
NOTE Confidence: 0.979934

00:29:15.410 --> 00:29:17.010 When we use patient's family  
NOTE Confidence: 0.979934

00:29:17.010 --> 00:29:19.250 history, we generally recommend starting  
NOTE Confidence: 0.979934

00:29:19.250 --> 00:29:21.465 screening about ten years younger  
NOTE Confidence: 0.979934

00:29:21.465 --> 00:29:22.905 than the earliest onset breast  
NOTE Confidence: 0.979934

00:29:22.905 --> 00:29:23.405 cancer.

NOTE Confidence: 0.91064453  
00:29:24.025 --> 00:29:25.865 They'll usually no younger than  
NOTE Confidence: 0.91064453  
00:29:25.865 --> 00:29:26.685 twenty five.  
NOTE Confidence: 0.97824824  
00:29:27.145 --> 00:29:28.585 But, obviously, that's a decision,  
NOTE Confidence: 0.97824824  
00:29:28.585 --> 00:29:29.805 you know, to make individually  
NOTE Confidence: 0.97824824  
00:29:29.945 --> 00:29:31.545 with your breast team. But  
NOTE Confidence: 0.97824824  
00:29:31.545 --> 00:29:32.985 you can imagine if you  
NOTE Confidence: 0.97824824  
00:29:32.985 --> 00:29:33.485 have  
NOTE Confidence: 0.9620443  
00:29:34.370 --> 00:29:35.330 a a mother or a  
NOTE Confidence: 0.9620443  
00:29:35.330 --> 00:29:36.610 cousin or a sister who  
NOTE Confidence: 0.9620443  
00:29:36.610 --> 00:29:38.310 was diagnosed with breast cancer  
NOTE Confidence: 0.9872546  
00:29:38.850 --> 00:29:40.210 in her, you know, mid  
NOTE Confidence: 0.9872546  
00:29:40.210 --> 00:29:41.910 thirties, you might start screening  
NOTE Confidence: 0.9872546  
00:29:41.970 --> 00:29:43.490 as early as twenty five  
NOTE Confidence: 0.9872546  
00:29:43.490 --> 00:29:44.610 even if there's no genetic  
NOTE Confidence: 0.9872546  
00:29:44.610 --> 00:29:46.050 cause in your family. So  
NOTE Confidence: 0.9872546

00:29:46.050 --> 00:29:47.410 that means fifteen years of  
NOTE Confidence: 0.9872546

00:29:47.410 --> 00:29:48.850 screening beyond what an average  
NOTE Confidence: 0.9872546

00:29:48.850 --> 00:29:50.150 risk person would get.  
NOTE Confidence: 0.9620978

00:29:51.625 --> 00:29:52.985 And what is breast cancer  
NOTE Confidence: 0.9620978

00:29:52.985 --> 00:29:55.225 screening? There's multiple forms. So  
NOTE Confidence: 0.9620978

00:29:55.225 --> 00:29:56.345 many people have heard about  
NOTE Confidence: 0.9620978

00:29:56.345 --> 00:29:58.105 mammography, which is in essence  
NOTE Confidence: 0.9620978

00:29:58.105 --> 00:29:59.385 sort of a breast x-ray  
NOTE Confidence: 0.9620978

00:29:59.385 --> 00:30:01.065 of sorts that works on  
NOTE Confidence: 0.9620978

00:30:01.065 --> 00:30:03.005 compression to fight early cancers.  
NOTE Confidence: 0.950735

00:30:04.070 --> 00:30:05.590 Ultrasound, which is recommended for  
NOTE Confidence: 0.950735

00:30:05.590 --> 00:30:07.110 women with dense breasts or  
NOTE Confidence: 0.950735

00:30:07.110 --> 00:30:08.710 a supplemental testing if your  
NOTE Confidence: 0.950735

00:30:08.710 --> 00:30:10.410 initial mammogram is abnormal,  
NOTE Confidence: 0.9812012

00:30:11.030 --> 00:30:12.710 and breast MRI, which works  
NOTE Confidence: 0.9812012

00:30:12.710 --> 00:30:14.230 differently. It works based on

NOTE Confidence: 0.9812012  
00:30:14.230 --> 00:30:15.910 blood flow images to find  
NOTE Confidence: 0.9812012  
00:30:15.910 --> 00:30:17.510 areas of early changes in  
NOTE Confidence: 0.9812012  
00:30:17.510 --> 00:30:18.170 the breast,  
NOTE Confidence: 0.97092694  
00:30:18.795 --> 00:30:20.395 including breast cancers as well  
NOTE Confidence: 0.97092694  
00:30:20.395 --> 00:30:21.775 as precancerous changes.  
NOTE Confidence: 0.9891276  
00:30:23.355 --> 00:30:24.955 Now, this is a busy  
NOTE Confidence: 0.9891276  
00:30:24.955 --> 00:30:26.155 table, but I show it  
NOTE Confidence: 0.9891276  
00:30:26.155 --> 00:30:27.455 to you just to highlight  
NOTE Confidence: 0.99785155  
00:30:27.995 --> 00:30:30.235 that mammogram and MRI are  
NOTE Confidence: 0.99785155  
00:30:30.235 --> 00:30:32.415 recommended for different genetic carriers  
NOTE Confidence: 0.95365393  
00:30:33.040 --> 00:30:34.640 much earlier than average risk  
NOTE Confidence: 0.95365393  
00:30:34.640 --> 00:30:36.560 people. So, for example, for  
NOTE Confidence: 0.95365393  
00:30:36.560 --> 00:30:37.920 patients with a rare syndrome  
NOTE Confidence: 0.95365393  
00:30:37.920 --> 00:30:39.600 called Li Fraumeni syndrome who  
NOTE Confidence: 0.95365393  
00:30:39.600 --> 00:30:40.960 are known to be TP  
NOTE Confidence: 0.95365393

00:30:40.960 --> 00:30:42.020 fifty three positive,  
NOTE Confidence: 0.9971147

00:30:42.560 --> 00:30:44.400 we actually recommend screening with  
NOTE Confidence: 0.9971147

00:30:44.400 --> 00:30:45.920 MRI as early as age  
NOTE Confidence: 0.9971147

00:30:45.920 --> 00:30:46.420 twenty.  
NOTE Confidence: 0.9696378

00:30:47.955 --> 00:30:49.395 So when we think about  
NOTE Confidence: 0.9696378

00:30:49.395 --> 00:30:51.235 patients, again, I'll I'll I'll  
NOTE Confidence: 0.9696378

00:30:51.235 --> 00:30:52.515 skim through this because Amy  
NOTE Confidence: 0.9696378

00:30:52.515 --> 00:30:53.475 went through it, but there  
NOTE Confidence: 0.9696378

00:30:53.475 --> 00:30:54.755 are families like this one  
NOTE Confidence: 0.9696378

00:30:54.755 --> 00:30:56.035 where there's lots of early  
NOTE Confidence: 0.9696378

00:30:56.035 --> 00:30:57.335 onset breast cancer  
NOTE Confidence: 0.94640005

00:30:57.875 --> 00:30:59.735 and we know that patients  
NOTE Confidence: 0.94640005

00:30:59.875 --> 00:31:01.815 clearly meet criteria for genetic  
NOTE Confidence: 0.94640005

00:31:01.875 --> 00:31:02.375 testing.  
NOTE Confidence: 0.98405707

00:31:03.800 --> 00:31:05.320 In this instance, we see  
NOTE Confidence: 0.98405707

00:31:05.320 --> 00:31:06.920 breast and ovarian cancers, and

NOTE Confidence: 0.98405707  
00:31:06.920 --> 00:31:07.960 this is a real patient  
NOTE Confidence: 0.98405707  
00:31:07.960 --> 00:31:09.240 we took care of who  
NOTE Confidence: 0.98405707  
00:31:09.240 --> 00:31:10.440 was found to carry the  
NOTE Confidence: 0.98405707  
00:31:10.440 --> 00:31:12.040 BRCA one gene and started  
NOTE Confidence: 0.98405707  
00:31:12.040 --> 00:31:13.400 high risk screening with me  
NOTE Confidence: 0.98405707  
00:31:13.400 --> 00:31:14.540 at the age of diagnosis  
NOTE Confidence: 0.98405707  
00:31:14.680 --> 00:31:15.740 at twenty nine.  
NOTE Confidence: 0.98977566  
00:31:16.424 --> 00:31:18.345 But even patients with BRCA  
NOTE Confidence: 0.98977566  
00:31:18.345 --> 00:31:19.784 do not always have family  
NOTE Confidence: 0.98977566  
00:31:19.784 --> 00:31:21.544 history. And so Amy alluded  
NOTE Confidence: 0.98977566  
00:31:21.544 --> 00:31:23.705 to aggressive prostate cancers and  
NOTE Confidence: 0.98977566  
00:31:23.705 --> 00:31:24.924 pancreatic cancers.  
NOTE Confidence: 0.9765625  
00:31:25.384 --> 00:31:26.745 And in the same family,  
NOTE Confidence: 0.9765625  
00:31:26.745 --> 00:31:28.365 we see that two pancreatic  
NOTE Confidence: 0.9765625  
00:31:28.505 --> 00:31:29.784 cancers are what led to  
NOTE Confidence: 0.9765625

00:31:29.784 --> 00:31:30.524 her testing,  
NOTE Confidence: 0.99877185

00:31:31.159 --> 00:31:32.440 and she was diagnosed as  
NOTE Confidence: 0.99877185

00:31:32.440 --> 00:31:34.039 a BRCA positive patient as  
NOTE Confidence: 0.99877185

00:31:34.039 --> 00:31:34.539 well.  
NOTE Confidence: 0.9932617

00:31:35.960 --> 00:31:37.659 But here's the important contrast.  
NOTE Confidence: 0.99035645

00:31:37.960 --> 00:31:38.779 This patient,  
NOTE Confidence: 0.9983259

00:31:39.240 --> 00:31:41.320 early onset breast cancer in  
NOTE Confidence: 0.9983259

00:31:41.320 --> 00:31:42.140 three relatives  
NOTE Confidence: 0.95996094

00:31:42.519 --> 00:31:43.340 right here,  
NOTE Confidence: 0.98503673

00:31:43.799 --> 00:31:45.159 in their early fifties, as  
NOTE Confidence: 0.98503673

00:31:45.159 --> 00:31:46.700 well as an ovarian cancer.  
NOTE Confidence: 0.98503673

00:31:46.815 --> 00:31:48.335 She was very high risk.  
NOTE Confidence: 0.98503673

00:31:48.335 --> 00:31:49.715 She had genetic testing,  
NOTE Confidence: 0.99558514

00:31:50.575 --> 00:31:52.115 and her test was negative.  
NOTE Confidence: 0.99558514

00:31:52.174 --> 00:31:52.975 So what do we do  
NOTE Confidence: 0.99558514

00:31:52.975 --> 00:31:53.634 with that?

NOTE Confidence: 0.9733073  
00:31:54.254 --> 00:31:55.855 We want to remember that  
NOTE Confidence: 0.9733073  
00:31:55.855 --> 00:31:57.455 we have other tools to  
NOTE Confidence: 0.9733073  
00:31:57.455 --> 00:31:59.534 assess patients' risk by doing  
NOTE Confidence: 0.9733073  
00:31:59.534 --> 00:32:00.434 a risk calculation.  
NOTE Confidence: 0.97612303  
00:32:02.000 --> 00:32:03.360 And, we found that this,  
NOTE Confidence: 0.97612303  
00:32:03.360 --> 00:32:04.720 this young woman, this forty  
NOTE Confidence: 0.97612303  
00:32:04.720 --> 00:32:05.679 two year old, had a  
NOTE Confidence: 0.97612303  
00:32:05.679 --> 00:32:07.600 lifetime risk that was nearing  
NOTE Confidence: 0.97612303  
00:32:07.600 --> 00:32:09.460 those of gene positive patients  
NOTE Confidence: 0.885437  
00:32:09.919 --> 00:32:11.299 greater than forty percent.  
NOTE Confidence: 0.9702723  
00:32:11.679 --> 00:32:13.279 So, knowing her family history  
NOTE Confidence: 0.9702723  
00:32:13.279 --> 00:32:14.799 and doing genetic testing, even  
NOTE Confidence: 0.9702723  
00:32:14.799 --> 00:32:15.679 though we didn't find a  
NOTE Confidence: 0.9702723  
00:32:15.679 --> 00:32:16.500 gene responsible,  
NOTE Confidence: 0.92856854  
00:32:17.325 --> 00:32:19.005 led to initiation of MRI  
NOTE Confidence: 0.92856854

00:32:19.005 --> 00:32:20.524 screening, and for this patient,  
NOTE Confidence: 0.92856854

00:32:20.524 --> 00:32:21.585 ultimately surgery  
NOTE Confidence: 0.99764

00:32:22.044 --> 00:32:23.585 of a precancerous lesion.  
NOTE Confidence: 0.9768241

00:32:24.125 --> 00:32:25.325 So it's important to know  
NOTE Confidence: 0.9768241

00:32:25.325 --> 00:32:26.605 your history, as Amy said,  
NOTE Confidence: 0.9768241

00:32:26.605 --> 00:32:28.304 and important to remember  
NOTE Confidence: 0.9538269

00:32:28.765 --> 00:32:29.804 that if you are high  
NOTE Confidence: 0.9538269

00:32:29.804 --> 00:32:31.325 risk, you're at risk for  
NOTE Confidence: 0.9538269

00:32:31.325 --> 00:32:32.850 an earlier diagnosis of a  
NOTE Confidence: 0.9538269

00:32:32.929 --> 00:32:33.429 cancer,  
NOTE Confidence: 0.9458822

00:32:33.730 --> 00:32:36.390 we oftentimes recommend multimodal screening,  
NOTE Confidence: 0.93258464

00:32:37.169 --> 00:32:38.610 and we can talk to  
NOTE Confidence: 0.93258464

00:32:38.610 --> 00:32:40.130 you about both about different  
NOTE Confidence: 0.93258464

00:32:40.130 --> 00:32:42.390 options such as ultrasound, MRI,  
NOTE Confidence: 0.93364805

00:32:42.770 --> 00:32:43.990 and or mammography,  
NOTE Confidence: 0.999442

00:32:44.370 --> 00:32:45.490 as well as options for

NOTE Confidence: 0.999442  
00:32:45.490 --> 00:32:46.230 risk reduction.  
NOTE Confidence: 0.99544543  
00:32:46.924 --> 00:32:48.125 So with that, thank you  
NOTE Confidence: 0.99544543  
00:32:48.125 --> 00:32:49.265 so much for your attention,  
NOTE Confidence: 0.99544543  
00:32:49.325 --> 00:32:50.284 and I will turn it  
NOTE Confidence: 0.99544543  
00:32:50.284 --> 00:32:51.245 back over to the other  
NOTE Confidence: 0.99544543  
00:32:51.245 --> 00:32:52.525 panelists. I'm happy to take  
NOTE Confidence: 0.99544543  
00:32:52.525 --> 00:32:54.065 questions if any come through.  
NOTE Confidence: 0.9889964  
00:32:57.645 --> 00:32:59.245 Thank you so much, doctor  
NOTE Confidence: 0.9889964  
00:32:59.245 --> 00:33:01.230 Prasaloglu. That was just such  
NOTE Confidence: 0.9889964  
00:33:01.230 --> 00:33:02.510 an important talk when we  
NOTE Confidence: 0.9889964  
00:33:02.510 --> 00:33:03.250 think about  
NOTE Confidence: 0.98964435  
00:33:03.550 --> 00:33:05.550 marrying these factors together, in  
NOTE Confidence: 0.98964435  
00:33:05.550 --> 00:33:06.910 terms of risk assessment for  
NOTE Confidence: 0.98964435  
00:33:06.910 --> 00:33:08.430 breast cancer and how that  
NOTE Confidence: 0.98964435  
00:33:08.430 --> 00:33:10.590 can impact earlier, breast cancer  
NOTE Confidence: 0.98964435

00:33:10.590 --> 00:33:12.290 screening for for patients.  
NOTE Confidence: 0.96523815

00:33:13.550 --> 00:33:14.654 I don't see any questions  
NOTE Confidence: 0.96523815

00:33:14.654 --> 00:33:15.534 that have come through the  
NOTE Confidence: 0.96523815

00:33:15.534 --> 00:33:16.575 chat quite the,  
NOTE Confidence: 0.9914551

00:33:17.054 --> 00:33:17.934 q and a or the  
NOTE Confidence: 0.9914551

00:33:17.934 --> 00:33:19.294 chat. So, again, we can  
NOTE Confidence: 0.9914551

00:33:19.294 --> 00:33:21.054 keep going forward and give  
NOTE Confidence: 0.9914551

00:33:21.054 --> 00:33:22.835 the audience a chance to,  
NOTE Confidence: 0.9931928

00:33:23.534 --> 00:33:24.815 think about questions. And, again,  
NOTE Confidence: 0.9931928

00:33:24.815 --> 00:33:25.980 I encourage you to please  
NOTE Confidence: 0.9931928

00:33:26.140 --> 00:33:27.179 put them in the chat,  
NOTE Confidence: 0.9931928

00:33:27.179 --> 00:33:27.900 put them in the q  
NOTE Confidence: 0.9931928

00:33:27.900 --> 00:33:29.580 and a, and, we'll be  
NOTE Confidence: 0.9931928

00:33:29.580 --> 00:33:30.700 able to ask our our  
NOTE Confidence: 0.9931928

00:33:30.700 --> 00:33:32.299 panelists about this. And,  
NOTE Confidence: 0.9843151

00:33:32.780 --> 00:33:33.500 you know, it's just such

NOTE Confidence: 0.9843151

00:33:33.500 --> 00:33:34.780 an important topic as we

NOTE Confidence: 0.9843151

00:33:34.780 --> 00:33:35.820 think about, you know, this

NOTE Confidence: 0.9843151

00:33:35.820 --> 00:33:37.020 field. So thank you again,

NOTE Confidence: 0.9843151

00:33:37.020 --> 00:33:37.840 doctor Prasaloglu.

NOTE Confidence: 0.97021484

00:33:39.865 --> 00:33:40.665 So our,

NOTE Confidence: 0.951572

00:33:41.465 --> 00:33:43.725 final speaker is doctor Dejal

NOTE Confidence: 0.951572

00:33:43.785 --> 00:33:44.285 Shreekumar.

NOTE Confidence: 0.99494356

00:33:44.985 --> 00:33:46.184 And while the slides are

NOTE Confidence: 0.99494356

00:33:46.184 --> 00:33:47.305 coming up there, I'll do

NOTE Confidence: 0.99494356

00:33:47.305 --> 00:33:49.005 an introduction here. Doctor Shreekumar

NOTE Confidence: 0.99403214

00:33:49.305 --> 00:33:51.065 is an assistant professor of

NOTE Confidence: 0.99403214

00:33:51.065 --> 00:33:52.765 medicine in medical oncology

NOTE Confidence: 0.99890137

00:33:53.360 --> 00:33:54.740 and cares for patients,

NOTE Confidence: 0.95731026

00:33:55.280 --> 00:33:56.240 as part of the Center

NOTE Confidence: 0.95731026

00:33:56.240 --> 00:33:56.980 for Gastrointestinal

NOTE Confidence: 0.98602074

00:33:57.360 --> 00:33:59.360 Cancers at Smilow Cancer Hospital  
NOTE Confidence: 0.98602074

00:33:59.360 --> 00:34:00.660 and Yale Cancer Center.  
NOTE Confidence: 0.9788025

00:34:00.960 --> 00:34:02.720 After obtaining her undergraduate degree  
NOTE Confidence: 0.9788025

00:34:02.720 --> 00:34:04.560 from Harvard, doctor Shreekumar received  
NOTE Confidence: 0.9788025

00:34:04.560 --> 00:34:05.760 her medical degree from the  
NOTE Confidence: 0.9788025

00:34:05.760 --> 00:34:07.220 University of South Florida  
NOTE Confidence: 0.9954631

00:34:07.774 --> 00:34:09.454 and completed her residency and  
NOTE Confidence: 0.9954631

00:34:09.454 --> 00:34:10.755 fellowship in oncology  
NOTE Confidence: 1

00:34:11.055 --> 00:34:11.714 at Yale.  
NOTE Confidence: 0.9949294

00:34:12.335 --> 00:34:13.935 Her clinical and research efforts  
NOTE Confidence: 0.9949294

00:34:13.935 --> 00:34:15.535 center around caring for young  
NOTE Confidence: 0.9949294

00:34:15.535 --> 00:34:16.994 adults with gastrointestinal  
NOTE Confidence: 0.91589355

00:34:17.454 --> 00:34:17.954 malignancies.  
NOTE Confidence: 0.9803573

00:34:18.815 --> 00:34:20.494 And doctor Sreekumar is also  
NOTE Confidence: 0.9803573

00:34:20.494 --> 00:34:22.815 passionate about medical education, serving  
NOTE Confidence: 0.9803573

00:34:22.815 --> 00:34:24.489 as the assistant program director

NOTE Confidence: 0.9803573

00:34:24.710 --> 00:34:26.150 for training of our fellows

NOTE Confidence: 0.9803573

00:34:26.150 --> 00:34:27.510 in our fellowship program in

NOTE Confidence: 0.9803573

00:34:27.510 --> 00:34:28.410 medical oncology.

NOTE Confidence: 0.9765484

00:34:29.349 --> 00:34:30.869 Furthermore, doctor Sreekumar is on

NOTE Confidence: 0.9765484

00:34:30.869 --> 00:34:32.070 the leadership team for the

NOTE Confidence: 0.9765484

00:34:32.070 --> 00:34:34.170 Yale early onset cancer program

NOTE Confidence: 0.9765484

00:34:34.310 --> 00:34:36.070 with long standing passion for

NOTE Confidence: 0.9765484

00:34:36.070 --> 00:34:37.210 early onset cancers.

NOTE Confidence: 0.96667105

00:34:37.745 --> 00:34:39.265 And today, doctor Sreekumar will

NOTE Confidence: 0.96667105

00:34:39.265 --> 00:34:40.805 be talking about risk based

NOTE Confidence: 0.96667105

00:34:40.945 --> 00:34:41.445 screening

NOTE Confidence: 0.9995117

00:34:41.985 --> 00:34:42.805 for gastrointestinal

NOTE Confidence: 0.9692993

00:34:43.344 --> 00:34:44.864 cancers, which are also,

NOTE Confidence: 0.998291

00:34:45.425 --> 00:34:46.545 we're hearing more and more

NOTE Confidence: 0.998291

00:34:46.545 --> 00:34:47.905 about in the news and,

NOTE Confidence: 0.998291

00:34:48.145 --> 00:34:48.885 in the public.  
NOTE Confidence: 0.9914551

00:34:49.185 --> 00:34:50.725 So thank you, doctor Sreekumar,  
NOTE Confidence: 0.9914551

00:34:50.945 --> 00:34:52.485 for your presentation today.  
NOTE Confidence: 0.975708

00:34:53.550 --> 00:34:54.830 Thank you so much, doctor  
NOTE Confidence: 0.975708

00:34:54.830 --> 00:34:56.830 Giri. I am really honored  
NOTE Confidence: 0.975708

00:34:56.830 --> 00:34:57.870 to be speaking with you  
NOTE Confidence: 0.975708

00:34:57.870 --> 00:34:59.170 all today about,  
NOTE Confidence: 0.98435056

00:35:00.190 --> 00:35:02.270 risk based strategies in GI  
NOTE Confidence: 0.98435056

00:35:02.270 --> 00:35:04.690 cancers, especially for our younger,  
NOTE Confidence: 0.9995117

00:35:05.870 --> 00:35:06.370 patients.  
NOTE Confidence: 0.9975586

00:35:07.175 --> 00:35:07.675 So,  
NOTE Confidence: 0.98079705

00:35:08.135 --> 00:35:09.494 I'll start with some quick  
NOTE Confidence: 0.98079705

00:35:09.494 --> 00:35:10.775 background, and then I plan  
NOTE Confidence: 0.98079705

00:35:10.775 --> 00:35:12.475 to focus my talk primarily  
NOTE Confidence: 0.98079705

00:35:12.614 --> 00:35:14.875 on colorectal cancer screening since  
NOTE Confidence: 0.98079705

00:35:15.015 --> 00:35:16.055 this is what we have

NOTE Confidence: 0.98079705  
00:35:16.055 --> 00:35:17.755 the most evidence in.  
NOTE Confidence: 0.9963867  
00:35:18.295 --> 00:35:19.494 But I will also touch  
NOTE Confidence: 0.9963867  
00:35:19.494 --> 00:35:21.594 on pancreatic screening as well.  
NOTE Confidence: 0.99838257  
00:35:22.670 --> 00:35:23.710 And I just wanna make  
NOTE Confidence: 0.99838257  
00:35:23.710 --> 00:35:24.589 sure that we are all  
NOTE Confidence: 0.99838257  
00:35:24.589 --> 00:35:26.029 starting on the same page.  
NOTE Confidence: 0.99838257  
00:35:26.029 --> 00:35:26.529 So,  
NOTE Confidence: 0.99902344  
00:35:27.549 --> 00:35:29.069 when I refer to a  
NOTE Confidence: 0.99902344  
00:35:29.069 --> 00:35:30.289 GI cancer,  
NOTE Confidence: 0.94528663  
00:35:30.989 --> 00:35:32.910 I'm referring to any cancer  
NOTE Confidence: 0.94528663  
00:35:32.910 --> 00:35:34.509 that affects the digestive system.  
NOTE Confidence: 0.94528663  
00:35:34.509 --> 00:35:35.869 So any of these organs  
NOTE Confidence: 0.94528663  
00:35:35.869 --> 00:35:36.989 that you see here in  
NOTE Confidence: 0.94528663  
00:35:36.989 --> 00:35:38.805 this chart, from the esophagus  
NOTE Confidence: 0.94528663  
00:35:38.805 --> 00:35:40.244 and stomach and pancreas to  
NOTE Confidence: 0.94528663

00:35:40.244 --> 00:35:41.685 the liver, to the large  
NOTE Confidence: 0.94528663

00:35:41.685 --> 00:35:43.045 the large bowel, the small  
NOTE Confidence: 0.94528663

00:35:43.045 --> 00:35:43.545 bowel,  
NOTE Confidence: 0.9536377

00:35:44.085 --> 00:35:45.625 to the anal canal. So  
NOTE Confidence: 0.9536377

00:35:45.765 --> 00:35:47.625 really the whole digestive system.  
NOTE Confidence: 0.99609375

00:35:48.244 --> 00:35:48.645 And,  
NOTE Confidence: 0.9386719

00:35:49.125 --> 00:35:50.984 as mentioned by doctor Prusalloglu,  
NOTE Confidence: 0.9816504

00:35:52.109 --> 00:35:53.150 when I'm talking about early  
NOTE Confidence: 0.9816504

00:35:53.150 --> 00:35:54.670 onset GI cancers for the  
NOTE Confidence: 0.9816504

00:35:54.670 --> 00:35:55.789 purpose of this talk, I  
NOTE Confidence: 0.9816504

00:35:55.789 --> 00:35:57.410 mean cancers that are diagnosed  
NOTE Confidence: 0.9816504

00:35:57.469 --> 00:35:59.009 under the age of fifty.  
NOTE Confidence: 0.97906494

00:36:00.269 --> 00:36:02.109 As doctor Giri mentioned, we've  
NOTE Confidence: 0.97906494

00:36:02.109 --> 00:36:03.309 all seen on the news  
NOTE Confidence: 0.97906494

00:36:03.309 --> 00:36:04.989 that we are seeing a  
NOTE Confidence: 0.97906494

00:36:04.989 --> 00:36:05.489 dramatic

NOTE Confidence: 0.99487305  
00:36:05.805 --> 00:36:07.565 rise in GI cancers in  
NOTE Confidence: 0.99487305  
00:36:07.565 --> 00:36:08.944 the early onset population,  
NOTE Confidence: 0.96859306  
00:36:10.204 --> 00:36:11.585 over the last few decades  
NOTE Confidence: 0.96859306  
00:36:11.645 --> 00:36:13.405 of increases of greater than  
NOTE Confidence: 0.96859306  
00:36:13.405 --> 00:36:14.785 fifty or sixty percent.  
NOTE Confidence: 0.9952726  
00:36:15.484 --> 00:36:17.244 And while there is a  
NOTE Confidence: 0.9952726  
00:36:17.244 --> 00:36:19.130 lot of focus that has  
NOTE Confidence: 0.9952726  
00:36:19.130 --> 00:36:19.610 been,  
NOTE Confidence: 0.99300444  
00:36:20.170 --> 00:36:22.410 made on colorectal cancer, which  
NOTE Confidence: 0.99300444  
00:36:22.410 --> 00:36:23.530 you can see here in  
NOTE Confidence: 0.99300444  
00:36:23.530 --> 00:36:24.830 this orange line,  
NOTE Confidence: 0.98626155  
00:36:25.450 --> 00:36:27.230 other GI cancers are increasing  
NOTE Confidence: 0.98626155  
00:36:27.290 --> 00:36:29.310 as well, like pancreatic cancer  
NOTE Confidence: 0.98626155  
00:36:29.450 --> 00:36:29.950 and,  
NOTE Confidence: 0.989624  
00:36:30.730 --> 00:36:31.710 gastric cancer.  
NOTE Confidence: 0.9972479

00:36:32.465 --> 00:36:33.825 But what's important to note  
NOTE Confidence: 0.9972479

00:36:33.825 --> 00:36:35.445 is that while we have  
NOTE Confidence: 0.9972479

00:36:35.585 --> 00:36:36.085 screening,  
NOTE Confidence: 0.99902344

00:36:36.785 --> 00:36:37.285 recommendations  
NOTE Confidence: 0.8302409

00:36:38.145 --> 00:36:39.765 from nationally for  
NOTE Confidence: 0.9946289

00:36:40.385 --> 00:36:42.485 average risk adults for colorectal  
NOTE Confidence: 0.9946289

00:36:42.545 --> 00:36:43.045 cancer,  
NOTE Confidence: 1

00:36:43.425 --> 00:36:44.785 we don't have those screening  
NOTE Confidence: 1

00:36:44.785 --> 00:36:45.844 guidelines available  
NOTE Confidence: 0.9861043

00:36:46.145 --> 00:36:48.180 for other GI cancers unless  
NOTE Confidence: 0.9861043

00:36:48.180 --> 00:36:49.460 you're at higher risk, which  
NOTE Confidence: 0.9861043

00:36:49.460 --> 00:36:50.120 is why,  
NOTE Confidence: 0.99975586

00:36:50.580 --> 00:36:51.780 knowing your risk is so  
NOTE Confidence: 0.99975586

00:36:51.780 --> 00:36:52.280 important.  
NOTE Confidence: 0.97524005

00:36:53.060 --> 00:36:54.020 And I think the big  
NOTE Confidence: 0.97524005

00:36:54.020 --> 00:36:55.300 question a lot of us

NOTE Confidence: 0.97524005  
00:36:55.300 --> 00:36:56.580 are asking and trying to  
NOTE Confidence: 0.97524005  
00:36:56.580 --> 00:36:57.860 research and find out is  
NOTE Confidence: 0.97524005  
00:36:57.860 --> 00:36:59.000 why is this happening?  
NOTE Confidence: 0.9992676  
00:36:59.540 --> 00:37:01.454 And it's probably a very  
NOTE Confidence: 0.9992676  
00:37:01.454 --> 00:37:01.954 complicated  
NOTE Confidence: 0.9663086  
00:37:02.494 --> 00:37:02.994 situation.  
NOTE Confidence: 0.9479283  
00:37:03.694 --> 00:37:05.614 It's probably an interaction between  
NOTE Confidence: 0.9479283  
00:37:05.614 --> 00:37:06.434 our genes,  
NOTE Confidence: 0.926845  
00:37:07.214 --> 00:37:08.575 the lifestyle we live, and  
NOTE Confidence: 0.926845  
00:37:08.575 --> 00:37:09.315 our environment,  
NOTE Confidence: 0.97524005  
00:37:09.855 --> 00:37:11.535 leading to younger and younger  
NOTE Confidence: 0.97524005  
00:37:11.535 --> 00:37:13.375 people getting, cancer. But we  
NOTE Confidence: 0.97524005  
00:37:13.375 --> 00:37:14.575 haven't quite figured it out  
NOTE Confidence: 0.97524005  
00:37:14.575 --> 00:37:16.650 yet. And so until we  
NOTE Confidence: 0.97524005  
00:37:16.650 --> 00:37:18.330 do, this becomes even more  
NOTE Confidence: 0.97524005

00:37:18.330 --> 00:37:20.410 important to understand understand if

NOTE Confidence: 0.97524005

00:37:20.410 --> 00:37:21.450 and when you should start

NOTE Confidence: 0.97524005

00:37:21.450 --> 00:37:21.950 screening.

NOTE Confidence: 0.9955241

00:37:23.369 --> 00:37:24.989 So to focus on colorectal

NOTE Confidence: 0.9955241

00:37:25.050 --> 00:37:26.650 cancer screening, I'm gonna,

NOTE Confidence: 0.99723935

00:37:28.010 --> 00:37:29.505 specifically call out how your

NOTE Confidence: 0.99723935

00:37:29.585 --> 00:37:31.505 personal history, your family history,

NOTE Confidence: 0.99723935

00:37:31.505 --> 00:37:32.404 and your genetics

NOTE Confidence: 0.9984375

00:37:32.864 --> 00:37:34.644 can alter the screening recommendations.

NOTE Confidence: 0.9795464

00:37:36.065 --> 00:37:37.265 Now why do we do

NOTE Confidence: 0.9795464

00:37:37.265 --> 00:37:38.805 screening for colorectal cancer?

NOTE Confidence: 0.99433595

00:37:39.265 --> 00:37:40.704 Well, it is the second

NOTE Confidence: 0.99433595

00:37:40.704 --> 00:37:42.144 leading cause of cancer death

NOTE Confidence: 0.99433595

00:37:42.144 --> 00:37:43.684 in in men and women.

NOTE Confidence: 0.94873047

00:37:43.984 --> 00:37:44.460 However,

NOTE Confidence: 0.9898204

00:37:45.020 --> 00:37:46.460 when it is caught early,

NOTE Confidence: 0.9898204  
00:37:46.460 --> 00:37:48.140 there is a really high  
NOTE Confidence: 0.9898204  
00:37:48.140 --> 00:37:49.900 survival rate, which is the  
NOTE Confidence: 0.9898204  
00:37:49.900 --> 00:37:51.180 reason why we try to  
NOTE Confidence: 0.9898204  
00:37:51.180 --> 00:37:52.160 be so proactive  
NOTE Confidence: 0.99943036  
00:37:52.460 --> 00:37:53.660 in trying to find these  
NOTE Confidence: 0.99943036  
00:37:53.660 --> 00:37:54.160 cancers.  
NOTE Confidence: 0.97721726  
00:37:55.820 --> 00:37:57.180 In discussing with your primary  
NOTE Confidence: 0.97721726  
00:37:57.180 --> 00:37:58.625 care doctor, you've probably heard  
NOTE Confidence: 0.97721726  
00:37:58.625 --> 00:37:59.744 that there are different kind  
NOTE Confidence: 0.97721726  
00:37:59.984 --> 00:38:01.505 different ways to screen for  
NOTE Confidence: 0.97721726  
00:38:01.505 --> 00:38:02.565 colorectal cancer,  
NOTE Confidence: 0.99713135  
00:38:03.265 --> 00:38:04.805 whether it is endoscopies  
NOTE Confidence: 0.9715169  
00:38:05.825 --> 00:38:07.204 or stool testing,  
NOTE Confidence: 0.95060223  
00:38:08.145 --> 00:38:09.364 even some imaging.  
NOTE Confidence: 0.9642334  
00:38:09.665 --> 00:38:10.885 And lately,  
NOTE Confidence: 0.9495192

00:38:11.344 --> 00:38:12.700 we heard heard some information

NOTE Confidence: 0.9495192

00:38:12.700 --> 00:38:13.739 about how we can use

NOTE Confidence: 0.9495192

00:38:13.739 --> 00:38:14.960 blood based tests

NOTE Confidence: 0.9996163

00:38:15.340 --> 00:38:17.020 to screen for colorectal cancer

NOTE Confidence: 0.9996163

00:38:17.020 --> 00:38:17.680 as well.

NOTE Confidence: 0.99645466

00:38:18.219 --> 00:38:20.060 However, it's really important to

NOTE Confidence: 0.99645466

00:38:20.060 --> 00:38:21.100 note that if you are

NOTE Confidence: 0.99645466

00:38:21.100 --> 00:38:22.140 considered to be at a

NOTE Confidence: 0.99645466

00:38:22.140 --> 00:38:24.300 high risk of colon cancer

NOTE Confidence: 0.99645466

00:38:24.300 --> 00:38:25.440 or rectal cancer,

NOTE Confidence: 0.9655762

00:38:26.075 --> 00:38:27.355 really, you wanna stick with

NOTE Confidence: 0.9655762

00:38:27.355 --> 00:38:28.255 getting a colonoscopy

NOTE Confidence: 0.96481323

00:38:28.634 --> 00:38:29.994 because this is the best,

NOTE Confidence: 0.96481323

00:38:29.994 --> 00:38:31.214 most accurate way,

NOTE Confidence: 0.9857003

00:38:31.674 --> 00:38:33.035 for finding whether or not

NOTE Confidence: 0.9857003

00:38:33.035 --> 00:38:34.795 you have, a cancer if

NOTE Confidence: 0.9857003  
00:38:34.795 --> 00:38:36.015 you're at higher risk.  
NOTE Confidence: 0.9844194  
00:38:37.515 --> 00:38:39.275 Now, if you are considered  
NOTE Confidence: 0.9844194  
00:38:39.275 --> 00:38:40.739 to be at an average  
NOTE Confidence: 0.9844194  
00:38:40.739 --> 00:38:41.239 risk,  
NOTE Confidence: 0.9754883  
00:38:41.700 --> 00:38:42.520 the USPSTF,  
NOTE Confidence: 0.90509033  
00:38:43.140 --> 00:38:44.200 which doctor Prusalloglu  
NOTE Confidence: 0.9946289  
00:38:44.500 --> 00:38:45.000 mentioned,  
NOTE Confidence: 0.9930013  
00:38:46.020 --> 00:38:47.800 has now changed their recommendations  
NOTE Confidence: 0.9930013  
00:38:48.020 --> 00:38:49.560 as of twenty twenty one  
NOTE Confidence: 0.9930013  
00:38:49.620 --> 00:38:51.620 to start colorectal cancer screening  
NOTE Confidence: 0.9930013  
00:38:51.620 --> 00:38:52.900 at the age of forty  
NOTE Confidence: 0.9930013  
00:38:52.900 --> 00:38:53.400 five,  
NOTE Confidence: 0.98853517  
00:38:53.885 --> 00:38:54.844 which is lower than the  
NOTE Confidence: 0.98853517  
00:38:54.844 --> 00:38:56.844 prior recommendation of age fifty.  
NOTE Confidence: 0.98853517  
00:38:56.844 --> 00:38:57.964 And this is in part  
NOTE Confidence: 0.98853517

00:38:57.964 --> 00:38:59.244 because of these trends that  
NOTE Confidence: 0.98853517

00:38:59.244 --> 00:39:01.105 we're seeing of younger people  
NOTE Confidence: 0.9995117

00:39:01.484 --> 00:39:03.025 getting colorectal cancer.  
NOTE Confidence: 1

00:39:03.565 --> 00:39:04.065 However,  
NOTE Confidence: 0.9892766

00:39:04.684 --> 00:39:05.405 if you are at a  
NOTE Confidence: 0.9892766

00:39:05.405 --> 00:39:07.165 higher risk, you may actually  
NOTE Confidence: 0.9892766

00:39:07.165 --> 00:39:07.890 need to start,  
NOTE Confidence: 0.9980957

00:39:08.369 --> 00:39:10.309 screening at a younger age.  
NOTE Confidence: 0.999163

00:39:11.089 --> 00:39:12.930 And I wanna be really  
NOTE Confidence: 0.999163

00:39:12.930 --> 00:39:14.150 clear that,  
NOTE Confidence: 0.98476046

00:39:15.329 --> 00:39:17.269 if you are having concerning  
NOTE Confidence: 0.98476046

00:39:17.489 --> 00:39:19.890 signs or symptoms, so things  
NOTE Confidence: 0.98476046

00:39:19.890 --> 00:39:21.425 like blood in your stool  
NOTE Confidence: 0.98476046

00:39:21.425 --> 00:39:23.285 or unexpected weight loss.  
NOTE Confidence: 0.99797714

00:39:23.665 --> 00:39:24.705 We don't really think of  
NOTE Confidence: 0.99797714

00:39:24.705 --> 00:39:25.525 that as,

NOTE Confidence: 0.99904156

00:39:26.305 --> 00:39:28.325 falling into the screening category

NOTE Confidence: 0.99904156

00:39:28.385 --> 00:39:29.685 anymore. If you're symptomatic,

NOTE Confidence: 0.98713684

00:39:30.305 --> 00:39:31.105 you should talk to your

NOTE Confidence: 0.98713684

00:39:31.105 --> 00:39:32.385 doctor about it right away

NOTE Confidence: 0.98713684

00:39:32.385 --> 00:39:33.745 and discuss whether or not

NOTE Confidence: 0.98713684

00:39:33.745 --> 00:39:34.785 we need to do more

NOTE Confidence: 0.98713684

00:39:34.785 --> 00:39:36.350 workup because that could be

NOTE Confidence: 0.98713684

00:39:36.350 --> 00:39:38.110 an an early sign of

NOTE Confidence: 0.98713684

00:39:38.110 --> 00:39:39.090 cancer development.

NOTE Confidence: 0.97021484

00:39:41.550 --> 00:39:42.930 One of our national organizations

NOTE Confidence: 0.97021484

00:39:43.070 --> 00:39:45.070 called the National Comprehensive Cancer

NOTE Confidence: 0.97021484

00:39:45.070 --> 00:39:45.570 Network

NOTE Confidence: 0.9477539

00:39:45.950 --> 00:39:46.450 recommends,

NOTE Confidence: 0.97646487

00:39:48.110 --> 00:39:50.295 specific screening depending on your

NOTE Confidence: 0.97646487

00:39:50.295 --> 00:39:51.975 risks, as I mentioned, personal

NOTE Confidence: 0.97646487

00:39:51.975 --> 00:39:53.975 risk, your family history risk,  
NOTE Confidence: 0.97646487

00:39:53.975 --> 00:39:56.215 and, related to genetic syndrome.  
NOTE Confidence: 0.97646487

00:39:56.215 --> 00:39:58.215 So, for example, if you  
NOTE Confidence: 0.97646487

00:39:58.215 --> 00:39:59.415 have a personal history of  
NOTE Confidence: 0.97646487

00:39:59.415 --> 00:40:01.675 certain medical conditions, such as  
NOTE Confidence: 0.99886066

00:40:02.369 --> 00:40:03.910 inflammatory bowel disease,  
NOTE Confidence: 0.9928385

00:40:04.369 --> 00:40:05.430 cystic fibrosis,  
NOTE Confidence: 0.9487915

00:40:06.210 --> 00:40:07.170 or if you had,  
NOTE Confidence: 0.9811626

00:40:07.809 --> 00:40:09.170 cancer when you were young,  
NOTE Confidence: 0.9811626

00:40:09.170 --> 00:40:10.210 a different cancer when you  
NOTE Confidence: 0.9811626

00:40:10.210 --> 00:40:11.410 were young that got certain  
NOTE Confidence: 0.9811626

00:40:11.410 --> 00:40:13.349 chemotherapy or radiation treatments,  
NOTE Confidence: 0.9959717

00:40:13.809 --> 00:40:15.170 you may be recommended to  
NOTE Confidence: 0.9959717

00:40:15.170 --> 00:40:16.390 start treatment early.  
NOTE Confidence: 0.96402717

00:40:16.795 --> 00:40:17.835 I'm not gonna focus on  
NOTE Confidence: 0.96402717

00:40:17.835 --> 00:40:19.195 this though because if you

NOTE Confidence: 0.96402717  
00:40:19.195 --> 00:40:20.235 have one of these conditions,  
NOTE Confidence: 0.96402717  
00:40:20.235 --> 00:40:21.675 you probably are already following  
NOTE Confidence: 0.96402717  
00:40:21.675 --> 00:40:23.035 with specialists who can help  
NOTE Confidence: 0.96402717  
00:40:23.035 --> 00:40:24.175 guide you through this.  
NOTE Confidence: 0.9851825  
00:40:25.915 --> 00:40:27.995 As Amy mentioned, family history  
NOTE Confidence: 0.9851825  
00:40:27.995 --> 00:40:29.355 is also really important for  
NOTE Confidence: 0.9851825  
00:40:29.355 --> 00:40:30.815 colorectal cancer screening,  
NOTE Confidence: 0.9838664  
00:40:31.410 --> 00:40:32.770 Particularly, if you have a  
NOTE Confidence: 0.9838664  
00:40:32.770 --> 00:40:34.290 first degree family member with  
NOTE Confidence: 0.9838664  
00:40:34.290 --> 00:40:35.430 colorectal cancer,  
NOTE Confidence: 0.99870956  
00:40:35.890 --> 00:40:37.250 you start screening at age  
NOTE Confidence: 0.99870956  
00:40:37.250 --> 00:40:39.109 forty or ten years before  
NOTE Confidence: 0.99870956  
00:40:39.170 --> 00:40:40.790 the first family member,  
NOTE Confidence: 0.9904785  
00:40:41.250 --> 00:40:42.309 had the diagnosis.  
NOTE Confidence: 0.9071045  
00:40:43.329 --> 00:40:44.150 But, also,  
NOTE Confidence: 0.99960935

00:40:44.945 --> 00:40:46.225 even if your first degree  
NOTE Confidence: 0.99960935

00:40:46.225 --> 00:40:48.005 family member had an advanced  
NOTE Confidence: 0.9872455

00:40:48.305 --> 00:40:50.145 or high risk polyp or  
NOTE Confidence: 0.9872455

00:40:50.145 --> 00:40:51.265 if they had lots of  
NOTE Confidence: 0.9872455

00:40:51.265 --> 00:40:51.765 polyps,  
NOTE Confidence: 0.9980913

00:40:52.145 --> 00:40:53.605 that could be another reason  
NOTE Confidence: 0.9980913

00:40:53.665 --> 00:40:55.285 why you should start screening  
NOTE Confidence: 0.9980913

00:40:55.344 --> 00:40:55.844 earlier.  
NOTE Confidence: 0.9991455

00:40:56.385 --> 00:40:57.960 And so this is all  
NOTE Confidence: 0.9991455

00:40:57.960 --> 00:40:59.160 the more reason why it's  
NOTE Confidence: 0.9991455

00:40:59.160 --> 00:41:00.440 so important for you to  
NOTE Confidence: 0.9991455

00:41:00.440 --> 00:41:02.380 know your family health history.  
NOTE Confidence: 0.98709106

00:41:04.599 --> 00:41:06.760 As Amy mentioned, genetic testing  
NOTE Confidence: 0.98709106

00:41:06.760 --> 00:41:08.200 might be recommended depending on  
NOTE Confidence: 0.98709106

00:41:08.200 --> 00:41:09.880 your family history, and she  
NOTE Confidence: 0.98709106

00:41:09.880 --> 00:41:10.380 discussed,

NOTE Confidence: 0.91345215  
00:41:10.760 --> 00:41:11.980 multiple different,  
NOTE Confidence: 0.9520019  
00:41:14.174 --> 00:41:15.775 factors that might weigh into  
NOTE Confidence: 0.9520019  
00:41:15.775 --> 00:41:17.134 this, like having a younger  
NOTE Confidence: 0.9520019  
00:41:17.134 --> 00:41:18.994 age at diagnosis or multiple  
NOTE Confidence: 0.98535156  
00:41:19.295 --> 00:41:19.795 family  
NOTE Confidence: 0.8739421  
00:41:20.734 --> 00:41:21.875 members with cancer.  
NOTE Confidence: 0.99960935  
00:41:22.894 --> 00:41:23.934 And I wanted to give  
NOTE Confidence: 0.99960935  
00:41:23.934 --> 00:41:25.375 a couple of examples of  
NOTE Confidence: 0.99960935  
00:41:25.375 --> 00:41:26.835 what this might look like.  
NOTE Confidence: 0.9709812  
00:41:27.579 --> 00:41:29.579 Amy discussed Lynch syndrome, which  
NOTE Confidence: 0.9709812  
00:41:29.579 --> 00:41:30.780 we consider to be a  
NOTE Confidence: 0.9709812  
00:41:30.780 --> 00:41:31.680 non polyposis  
NOTE Confidence: 0.9805908  
00:41:31.980 --> 00:41:33.819 or a syndrome that does  
NOTE Confidence: 0.9805908  
00:41:33.819 --> 00:41:34.719 not have to  
NOTE Confidence: 0.99400383  
00:41:35.020 --> 00:41:36.460 go through the pathway of  
NOTE Confidence: 0.99400383

00:41:36.460 --> 00:41:37.739 developing a lot of colon  
NOTE Confidence: 0.99400383

00:41:37.739 --> 00:41:39.260 pop polyps, and I'll discuss  
NOTE Confidence: 0.99400383

00:41:39.260 --> 00:41:40.140 that a little bit in  
NOTE Confidence: 0.99400383

00:41:40.140 --> 00:41:40.880 more detail.  
NOTE Confidence: 0.97994834

00:41:41.555 --> 00:41:42.915 And I wanted to discuss  
NOTE Confidence: 0.97994834

00:41:42.915 --> 00:41:44.195 an example of what we  
NOTE Confidence: 0.97994834

00:41:44.195 --> 00:41:45.955 call a polyposis syndrome as  
NOTE Confidence: 0.97994834

00:41:45.955 --> 00:41:48.055 well using familial adenopenus  
NOTE Confidence: 0.8947449

00:41:48.595 --> 00:41:50.375 polyposis or f a FAP  
NOTE Confidence: 0.8947449

00:41:50.515 --> 00:41:51.415 as an example.  
NOTE Confidence: 1

00:41:52.515 --> 00:41:53.015 So  
NOTE Confidence: 0.9197998

00:41:53.315 --> 00:41:54.855 starting with Lynch syndrome.  
NOTE Confidence: 0.996521

00:41:56.180 --> 00:41:57.960 Lynch syndrome, as Amy mentioned,  
NOTE Confidence: 0.996521

00:41:58.099 --> 00:41:59.079 is a mutation  
NOTE Confidence: 0.9853167

00:41:59.460 --> 00:42:01.079 in one of these mismatch  
NOTE Confidence: 0.9853167

00:42:01.299 --> 00:42:02.359 repair proteins.

NOTE Confidence: 0.99768066  
00:42:02.819 --> 00:42:04.279 And Amy really elegantly  
NOTE Confidence: 0.99572754  
00:42:04.579 --> 00:42:06.759 described how genetic information  
NOTE Confidence: 0.99509394  
00:42:07.555 --> 00:42:09.075 in our body is really  
NOTE Confidence: 0.99509394  
00:42:09.075 --> 00:42:11.495 encoded by our DNA, and  
NOTE Confidence: 0.99509394  
00:42:11.635 --> 00:42:12.995 you can have errors or  
NOTE Confidence: 0.99509394  
00:42:12.995 --> 00:42:14.755 mistakes that happen in your  
NOTE Confidence: 0.99509394  
00:42:14.755 --> 00:42:15.255 DNA.  
NOTE Confidence: 0.9861799  
00:42:16.275 --> 00:42:18.035 Proteins like the mismatch repair  
NOTE Confidence: 0.9861799  
00:42:18.035 --> 00:42:19.395 proteins are supposed to come  
NOTE Confidence: 0.9861799  
00:42:19.395 --> 00:42:20.835 in and recognize when there's  
NOTE Confidence: 0.9861799  
00:42:20.835 --> 00:42:22.200 a mistake and fix the  
NOTE Confidence: 0.9861799  
00:42:22.200 --> 00:42:23.480 mistake so that things can  
NOTE Confidence: 0.9861799  
00:42:23.480 --> 00:42:24.460 go about normally.  
NOTE Confidence: 0.9975586  
00:42:25.239 --> 00:42:25.739 However,  
NOTE Confidence: 0.9723795  
00:42:26.040 --> 00:42:28.300 in syndromes like Lynch syndrome,  
NOTE Confidence: 1

00:42:28.839 --> 00:42:29.980 you might have a mutation  
NOTE Confidence: 0.9897461

00:42:30.440 --> 00:42:31.180 in that,  
NOTE Confidence: 0.99975586

00:42:31.800 --> 00:42:33.320 protein that's supposed to repair  
NOTE Confidence: 0.99975586

00:42:33.320 --> 00:42:33.820 mistakes.  
NOTE Confidence: 0.9976981

00:42:34.434 --> 00:42:35.635 So if you get an  
NOTE Confidence: 0.9976981

00:42:35.635 --> 00:42:37.714 accumulation of these mistakes, this  
NOTE Confidence: 0.9976981

00:42:37.714 --> 00:42:38.674 leads to a lot of  
NOTE Confidence: 0.9976981

00:42:38.674 --> 00:42:40.594 errors and abnormalities in the  
NOTE Confidence: 0.9976981

00:42:40.594 --> 00:42:42.515 cells, which eventually can lead  
NOTE Confidence: 0.9976981

00:42:42.515 --> 00:42:43.575 to cancer development.  
NOTE Confidence: 0.975323

00:42:45.635 --> 00:42:47.635 So Lynch syndrome can be  
NOTE Confidence: 0.975323

00:42:47.635 --> 00:42:49.635 associated with many different cancer  
NOTE Confidence: 0.975323

00:42:49.635 --> 00:42:50.910 types as seen  
NOTE Confidence: 0.8510742

00:42:51.290 --> 00:42:51.690 here.  
NOTE Confidence: 0.9666193

00:42:52.250 --> 00:42:54.330 But specifically for colorectal cancer,  
NOTE Confidence: 0.9666193

00:42:54.330 --> 00:42:55.690 depending on which gene is

NOTE Confidence: 0.9666193  
00:42:55.690 --> 00:42:56.190 mutated,  
NOTE Confidence: 0.9765523  
00:42:56.489 --> 00:42:57.850 you might have an increased  
NOTE Confidence: 0.9765523  
00:42:57.850 --> 00:42:59.130 risk of up to sixty  
NOTE Confidence: 0.9765523  
00:42:59.130 --> 00:43:01.070 percent chance of getting colorectal  
NOTE Confidence: 0.9765523  
00:43:01.130 --> 00:43:02.410 cancer as opposed to four  
NOTE Confidence: 0.9765523  
00:43:02.410 --> 00:43:03.550 percent in the population.  
NOTE Confidence: 0.96611327  
00:43:04.494 --> 00:43:06.355 And so for this reason,  
NOTE Confidence: 0.99967444  
00:43:06.655 --> 00:43:07.474 the NCCN  
NOTE Confidence: 0.93530273  
00:43:08.015 --> 00:43:09.795 recommends specific screening,  
NOTE Confidence: 0.98194796  
00:43:10.335 --> 00:43:12.515 not only for colorectal cancer,  
NOTE Confidence: 0.98194796  
00:43:12.655 --> 00:43:13.855 but for other cancers as  
NOTE Confidence: 0.98194796  
00:43:13.855 --> 00:43:15.214 well that are associated with  
NOTE Confidence: 0.98194796  
00:43:15.214 --> 00:43:16.035 Lynch syndrome.  
NOTE Confidence: 0.94954425  
00:43:16.734 --> 00:43:17.875 As Amy mentioned,  
NOTE Confidence: 0.9991455  
00:43:18.255 --> 00:43:19.535 depending on which gene is  
NOTE Confidence: 0.9991455

00:43:19.535 --> 00:43:22.190 mutated, colonoscopy might be recommended

NOTE Confidence: 0.9991455

00:43:22.410 --> 00:43:24.010 as early as age twenty

NOTE Confidence: 0.9991455

00:43:24.010 --> 00:43:24.510 five

NOTE Confidence: 0.98795575

00:43:25.050 --> 00:43:26.090 or a few years before

NOTE Confidence: 0.98795575

00:43:26.090 --> 00:43:27.550 your first family diagnosis.

NOTE Confidence: 0.96601564

00:43:28.250 --> 00:43:29.469 And upper endoscopies,

NOTE Confidence: 0.97767055

00:43:29.850 --> 00:43:30.969 which we don't have a

NOTE Confidence: 0.97767055

00:43:30.969 --> 00:43:32.810 general screening guideline for for

NOTE Confidence: 0.97767055

00:43:32.810 --> 00:43:34.190 average risk adults,

NOTE Confidence: 0.9815877

00:43:34.655 --> 00:43:36.494 would be recommended, depending on

NOTE Confidence: 0.9815877

00:43:36.494 --> 00:43:37.775 your mutation, to start at

NOTE Confidence: 0.9815877

00:43:37.775 --> 00:43:38.594 age thirty.

NOTE Confidence: 0.9995117

00:43:39.135 --> 00:43:40.275 You might be recommended

NOTE Confidence: 0.99853516

00:43:40.575 --> 00:43:41.234 to have,

NOTE Confidence: 0.9939779

00:43:42.015 --> 00:43:44.114 biopsies or have a conversation

NOTE Confidence: 0.9939779

00:43:44.335 --> 00:43:45.614 about whether or not doing

NOTE Confidence: 0.9939779  
00:43:45.614 --> 00:43:46.114 surgery  
NOTE Confidence: 0.9759979  
00:43:46.830 --> 00:43:48.190 could reduce your risks of  
NOTE Confidence: 0.9759979  
00:43:48.190 --> 00:43:49.550 other types of cancers, such  
NOTE Confidence: 0.9759979  
00:43:49.550 --> 00:43:51.730 as endometrial cancer and ovarian  
NOTE Confidence: 0.9759979  
00:43:51.790 --> 00:43:52.290 cancer.  
NOTE Confidence: 0.97505456  
00:43:54.350 --> 00:43:55.790 Now, in terms of how  
NOTE Confidence: 0.97505456  
00:43:55.790 --> 00:43:56.989 can we reduce the risk  
NOTE Confidence: 0.97505456  
00:43:56.989 --> 00:43:58.030 of cancer if you have  
NOTE Confidence: 0.97505456  
00:43:58.030 --> 00:43:58.850 Lynch syndrome,  
NOTE Confidence: 0.99986047  
00:43:59.775 --> 00:44:01.135 a study has shown that  
NOTE Confidence: 0.99986047  
00:44:01.135 --> 00:44:02.114 taking aspirin  
NOTE Confidence: 0.98963994  
00:44:02.415 --> 00:44:04.015 can actually reduce your risks  
NOTE Confidence: 0.98963994  
00:44:04.015 --> 00:44:06.094 of getting colorectal cancer. And  
NOTE Confidence: 0.98963994  
00:44:06.094 --> 00:44:07.135 so, this is something that  
NOTE Confidence: 0.98963994  
00:44:07.135 --> 00:44:08.255 would be discussed if you  
NOTE Confidence: 0.98963994

00:44:08.255 --> 00:44:09.234 had this diagnosis.  
NOTE Confidence: 0.99144423

00:44:10.974 --> 00:44:12.430 On the other hand, an  
NOTE Confidence: 0.99144423

00:44:12.430 --> 00:44:14.270 example of a polyposis syndrome,  
NOTE Confidence: 0.99144423

00:44:14.270 --> 00:44:15.890 as I mentioned, is FAP.  
NOTE Confidence: 0.9975586

00:44:16.910 --> 00:44:19.250 And FAP is an inherited  
NOTE Confidence: 0.9975586

00:44:19.310 --> 00:44:21.010 cancer syndrome with a mutation  
NOTE Confidence: 0.9975586

00:44:21.070 --> 00:44:22.770 in the APC gene.  
NOTE Confidence: 0.9988544

00:44:23.325 --> 00:44:24.285 Just to give you an  
NOTE Confidence: 0.9988544

00:44:24.285 --> 00:44:26.305 idea of how cancer develops  
NOTE Confidence: 0.9988544

00:44:26.445 --> 00:44:27.425 in this situation,  
NOTE Confidence: 0.9998372

00:44:28.605 --> 00:44:29.724 this is a graphic that  
NOTE Confidence: 0.9998372

00:44:29.724 --> 00:44:30.224 shows  
NOTE Confidence: 0.9986165

00:44:30.685 --> 00:44:32.464 what happens when your normal  
NOTE Confidence: 0.9986165

00:44:32.605 --> 00:44:35.085 colon cells become carcinoma or  
NOTE Confidence: 0.9986165

00:44:35.085 --> 00:44:36.065 cancer cells.  
NOTE Confidence: 0.9995117

00:44:36.560 --> 00:44:37.619 So there are mutations

NOTE Confidence: 0.99703544  
00:44:38.000 --> 00:44:39.600 in these red boxes that  
NOTE Confidence: 0.99703544  
00:44:39.600 --> 00:44:41.040 happen along the way that  
NOTE Confidence: 0.99703544  
00:44:41.040 --> 00:44:42.660 turn normal colon cells  
NOTE Confidence: 0.8826381  
00:44:42.960 --> 00:44:44.820 to colon polyps and eventually  
NOTE Confidence: 0.8826381  
00:44:44.880 --> 00:44:45.540 to cancer.  
NOTE Confidence: 0.9794108  
00:44:46.239 --> 00:44:47.520 And as you can see  
NOTE Confidence: 0.9794108  
00:44:47.520 --> 00:44:48.020 here,  
NOTE Confidence: 0.99934894  
00:44:48.400 --> 00:44:49.815 the first stop  
NOTE Confidence: 0.9408831  
00:44:50.114 --> 00:44:51.795 in that pathway is the  
NOTE Confidence: 0.9408831  
00:44:51.795 --> 00:44:52.855 APC gene.  
NOTE Confidence: 0.99960935  
00:44:53.155 --> 00:44:54.614 So if you have mutations  
NOTE Confidence: 0.99924046  
00:44:54.915 --> 00:44:56.295 in your APC,  
NOTE Confidence: 0.99591935  
00:44:57.075 --> 00:44:58.275 then that might mean that  
NOTE Confidence: 0.99591935  
00:44:58.275 --> 00:44:59.315 you're at a much higher  
NOTE Confidence: 0.99591935  
00:44:59.315 --> 00:45:00.935 risk for getting cancer.  
NOTE Confidence: 0.99694824

00:45:02.589 --> 00:45:03.790 This is an example of  
NOTE Confidence: 0.99694824

00:45:03.790 --> 00:45:04.530 a colonoscopy,  
NOTE Confidence: 0.9819824

00:45:05.310 --> 00:45:06.349 from somebody who might have,  
NOTE Confidence: 0.7591959

00:45:07.790 --> 00:45:08.369 a FAP.  
NOTE Confidence: 0.99869055

00:45:08.910 --> 00:45:10.190 And you can see that  
NOTE Confidence: 0.99869055

00:45:10.190 --> 00:45:11.790 there are all of these  
NOTE Confidence: 0.99869055

00:45:11.790 --> 00:45:12.290 spots,  
NOTE Confidence: 0.97436523

00:45:12.750 --> 00:45:14.450 all of these nodules, polyps  
NOTE Confidence: 0.97436523

00:45:14.510 --> 00:45:15.330 in the colon.  
NOTE Confidence: 0.99083114

00:45:15.864 --> 00:45:17.145 People who have a diagnosis  
NOTE Confidence: 0.99083114

00:45:17.145 --> 00:45:18.665 of FAP can have hundreds  
NOTE Confidence: 0.99083114

00:45:18.665 --> 00:45:19.325 of polyps.  
NOTE Confidence: 1

00:45:19.864 --> 00:45:20.364 And  
NOTE Confidence: 0.99768066

00:45:20.745 --> 00:45:21.965 because of that reason,  
NOTE Confidence: 0.99842834

00:45:22.425 --> 00:45:23.545 there is almost a one  
NOTE Confidence: 0.99842834

00:45:23.545 --> 00:45:25.225 hundred percent chance of developing

NOTE Confidence: 0.99842834  
00:45:25.225 --> 00:45:27.225 colorectal cancer if you have  
NOTE Confidence: 0.99842834  
00:45:27.225 --> 00:45:27.725 FAP.  
NOTE Confidence: 1  
00:45:28.610 --> 00:45:29.590 For that reason,  
NOTE Confidence: 0.98935544  
00:45:30.690 --> 00:45:32.050 if you are diagnosed with  
NOTE Confidence: 0.98935544  
00:45:32.050 --> 00:45:33.510 this, there is a recommendation  
NOTE Confidence: 1  
00:45:34.130 --> 00:45:36.770 to surgically remove the colon  
NOTE Confidence: 1  
00:45:36.770 --> 00:45:37.430 and rectum  
NOTE Confidence: 0.9205322  
00:45:37.890 --> 00:45:39.670 usually after age eighteen.  
NOTE Confidence: 0.9720348  
00:45:40.434 --> 00:45:41.154 There are a couple of  
NOTE Confidence: 0.9720348  
00:45:41.154 --> 00:45:42.194 different ways that this can  
NOTE Confidence: 0.9720348  
00:45:42.194 --> 00:45:42.694 happen.  
NOTE Confidence: 0.98844403  
00:45:43.875 --> 00:45:44.855 You can either,  
NOTE Confidence: 0.9939575  
00:45:45.714 --> 00:45:47.474 have your small bowel,  
NOTE Confidence: 0.99641925  
00:45:47.795 --> 00:45:49.315 connected to your rectum and  
NOTE Confidence: 0.99641925  
00:45:49.315 --> 00:45:50.694 just remove the colon.  
NOTE Confidence: 0.97835284

00:45:51.714 --> 00:45:52.694 You might have,  
NOTE Confidence: 0.9316406

00:45:53.270 --> 00:45:54.550 your small bowel collect  
NOTE Confidence: 0.9605713

00:45:55.190 --> 00:45:56.869 connected directly to your anal  
NOTE Confidence: 0.9605713

00:45:56.869 --> 00:45:57.369 canal,  
NOTE Confidence: 0.9981864

00:45:58.469 --> 00:46:00.330 or you might have your  
NOTE Confidence: 0.9981864

00:46:00.390 --> 00:46:01.989 small bowel come into what  
NOTE Confidence: 0.9981864

00:46:01.989 --> 00:46:03.130 is called an ostomy  
NOTE Confidence: 0.92982703

00:46:03.589 --> 00:46:05.109 depending on the specifics of  
NOTE Confidence: 0.92982703

00:46:05.109 --> 00:46:05.770 your condition  
NOTE Confidence: 0.989209

00:46:06.150 --> 00:46:07.755 and the risks and what  
NOTE Confidence: 0.989209

00:46:07.755 --> 00:46:09.775 is available at your hospital.  
NOTE Confidence: 0.9590039

00:46:11.434 --> 00:46:13.835 FAP is also associated with  
NOTE Confidence: 0.9590039

00:46:13.835 --> 00:46:15.515 other cancer risks as well,  
NOTE Confidence: 0.9590039

00:46:15.515 --> 00:46:17.434 particularly cancers in the other  
NOTE Confidence: 0.9590039

00:46:17.434 --> 00:46:18.954 parts of the GI tract,  
NOTE Confidence: 0.9590039

00:46:18.954 --> 00:46:20.974 and thyroid, and adrenal cancer.

NOTE Confidence: 0.9937744  
00:46:21.674 --> 00:46:22.494 And similarly,  
NOTE Confidence: 0.9998373  
00:46:23.070 --> 00:46:23.969 the NCCN  
NOTE Confidence: 0.9807129  
00:46:24.989 --> 00:46:25.489 recommends,  
NOTE Confidence: 0.9777832  
00:46:26.190 --> 00:46:27.870 screening, according to this as  
NOTE Confidence: 0.9777832  
00:46:27.870 --> 00:46:28.989 well to try to catch  
NOTE Confidence: 0.9777832  
00:46:28.989 --> 00:46:30.510 these cancers early and to  
NOTE Confidence: 0.9777832  
00:46:30.510 --> 00:46:31.890 help mitigate the risk.  
NOTE Confidence: 0.9947335  
00:46:32.270 --> 00:46:34.110 So for colorectal cancer, as  
NOTE Confidence: 0.9947335  
00:46:34.110 --> 00:46:34.770 I mentioned,  
NOTE Confidence: 0.94453126  
00:46:35.230 --> 00:46:36.610 there is a strong recommendation  
NOTE Confidence: 0.99658203  
00:46:36.989 --> 00:46:38.344 to have a removal,  
NOTE Confidence: 0.97146267  
00:46:38.885 --> 00:46:39.844 of the colon and the  
NOTE Confidence: 0.97146267  
00:46:39.844 --> 00:46:40.344 rectum.  
NOTE Confidence: 0.9987488  
00:46:40.805 --> 00:46:42.244 And even in whatever part  
NOTE Confidence: 0.9987488  
00:46:42.244 --> 00:46:43.765 is left behind, there's a  
NOTE Confidence: 0.9987488

00:46:43.765 --> 00:46:45.844 recommendation to still screen those

NOTE Confidence: 0.9987488

00:46:45.844 --> 00:46:46.344 areas

NOTE Confidence: 0.9973755

00:46:46.725 --> 00:46:47.925 to see if there's more

NOTE Confidence: 0.9973755

00:46:47.925 --> 00:46:49.065 cancer that develops.

NOTE Confidence: 1

00:46:50.010 --> 00:46:50.510 Furthermore,

NOTE Confidence: 0.9926409

00:46:51.370 --> 00:46:53.530 for, stomach cancers and upper

NOTE Confidence: 0.9926409

00:46:53.530 --> 00:46:54.430 GI cancers,

NOTE Confidence: 0.95616317

00:46:54.890 --> 00:46:56.010 a recommendation is made to

NOTE Confidence: 0.95616317

00:46:56.010 --> 00:46:57.230 get an upper endoscopy

NOTE Confidence: 0.9809299

00:46:57.610 --> 00:46:58.890 starting as early as age

NOTE Confidence: 0.9809299

00:46:58.890 --> 00:47:00.270 twenty to twenty five,

NOTE Confidence: 0.9994575

00:47:00.650 --> 00:47:01.950 and you might be recommended

NOTE Confidence: 0.9994575

00:47:02.010 --> 00:47:03.310 to have more surgeries

NOTE Confidence: 0.91955566

00:47:03.924 --> 00:47:04.505 to remove,

NOTE Confidence: 0.98967636

00:47:05.045 --> 00:47:06.565 different areas depending on what

NOTE Confidence: 0.98967636

00:47:06.565 --> 00:47:07.305 they find.

NOTE Confidence: 0.9394299  
00:47:08.645 --> 00:47:10.085 For f for patients with  
NOTE Confidence: 0.9394299  
00:47:10.085 --> 00:47:11.145 a FAP,  
NOTE Confidence: 0.9878906  
00:47:11.684 --> 00:47:13.444 screening for thyroid cancer might  
NOTE Confidence: 0.9878906  
00:47:13.444 --> 00:47:15.125 begin as as late as  
NOTE Confidence: 0.9878906  
00:47:15.125 --> 00:47:16.724 in your teenage years. So  
NOTE Confidence: 0.9878906  
00:47:16.724 --> 00:47:18.359 it's really important to know,  
NOTE Confidence: 0.9864638  
00:47:18.760 --> 00:47:20.280 whether or not someone in  
NOTE Confidence: 0.9864638  
00:47:20.280 --> 00:47:21.500 your family has this.  
NOTE Confidence: 0.99545896  
00:47:22.040 --> 00:47:23.500 And a condition called hepatoblastoma  
NOTE Confidence: 0.97094727  
00:47:24.280 --> 00:47:25.260 is actually found,  
NOTE Confidence: 0.9342256  
00:47:26.520 --> 00:47:27.799 in childhood, so in the  
NOTE Confidence: 0.9342256  
00:47:27.799 --> 00:47:29.480 first five years of life.  
NOTE Confidence: 0.9342256  
00:47:29.480 --> 00:47:30.440 So it makes it even  
NOTE Confidence: 0.9342256  
00:47:30.440 --> 00:47:31.180 more important.  
NOTE Confidence: 0.98412275  
00:47:32.945 --> 00:47:34.385 In terms of reducing your  
NOTE Confidence: 0.98412275

00:47:34.385 --> 00:47:36.805 risk of, cancer with FAP,  
NOTE Confidence: 0.9439253

00:47:37.665 --> 00:47:38.945 there is a medication called  
NOTE Confidence: 0.9439253

00:47:38.945 --> 00:47:40.785 Solendac, which is an anti  
NOTE Confidence: 0.9439253

00:47:40.785 --> 00:47:41.285 inflammatory  
NOTE Confidence: 0.974149

00:47:41.905 --> 00:47:43.425 drug, which helps to decrease  
NOTE Confidence: 0.974149

00:47:43.425 --> 00:47:45.210 the polyp risk, but still  
NOTE Confidence: 0.974149

00:47:45.210 --> 00:47:46.890 your cancer risk is extremely  
NOTE Confidence: 0.974149

00:47:46.890 --> 00:47:48.810 high, if you have FAP  
NOTE Confidence: 0.974149

00:47:48.810 --> 00:47:49.530 and if you don't have  
NOTE Confidence: 0.974149

00:47:49.530 --> 00:47:50.489 surgery. So that is the  
NOTE Confidence: 0.974149

00:47:50.489 --> 00:47:51.950 reason why it's still recommendation  
NOTE Confidence: 0.9506836

00:47:52.250 --> 00:47:52.750 recommended.  
NOTE Confidence: 0.99438477

00:47:54.250 --> 00:47:56.330 And just to briefly touch  
NOTE Confidence: 0.99438477

00:47:56.330 --> 00:47:58.430 on pancreatic cancer screening,  
NOTE Confidence: 0.9546086

00:47:59.495 --> 00:48:00.775 we have a lot fewer  
NOTE Confidence: 0.9546086

00:48:00.775 --> 00:48:01.975 guidelines about what to do

NOTE Confidence: 0.9546086

00:48:01.975 --> 00:48:03.195 with pancreas cancer.

NOTE Confidence: 0.9664714

00:48:04.055 --> 00:48:05.594 But, this is,

NOTE Confidence: 1

00:48:05.975 --> 00:48:07.035 a really important

NOTE Confidence: 0.9337158

00:48:07.495 --> 00:48:09.035 topic to discuss because

NOTE Confidence: 0.9935506

00:48:09.575 --> 00:48:12.235 while pancreatic cancer only represents

NOTE Confidence: 0.9935506

00:48:12.295 --> 00:48:14.200 about three percent of cancer

NOTE Confidence: 0.9935506

00:48:14.200 --> 00:48:15.800 cases in the US, it

NOTE Confidence: 0.9935506

00:48:15.800 --> 00:48:17.239 represents over eight percent of

NOTE Confidence: 0.9935506

00:48:17.239 --> 00:48:18.780 the cancer related death

NOTE Confidence: 0.9711304

00:48:19.640 --> 00:48:21.000 cancer related deaths, and that's

NOTE Confidence: 0.9711304

00:48:21.000 --> 00:48:22.200 because there is a poor

NOTE Confidence: 0.9711304

00:48:22.200 --> 00:48:24.220 survival of of pancreatic cancer.

NOTE Confidence: 0.9711304

00:48:24.520 --> 00:48:26.655 It's often found quite late.

NOTE Confidence: 0.99902344

00:48:27.535 --> 00:48:28.975 And there is no national

NOTE Confidence: 0.99902344

00:48:28.975 --> 00:48:29.475 recommendations

NOTE Confidence: 1

00:48:29.935 --> 00:48:30.435 for  
NOTE Confidence: 0.9975586

00:48:30.815 --> 00:48:32.594 overall global screening,  
NOTE Confidence: 0.9536133

00:48:33.135 --> 00:48:34.594 for pancreatic cancers,  
NOTE Confidence: 0.9265137

00:48:35.215 --> 00:48:36.355 at least yet.  
NOTE Confidence: 0.98410374

00:48:36.895 --> 00:48:39.075 But it is recommended in  
NOTE Confidence: 0.98410374

00:48:39.135 --> 00:48:40.435 some high risk individuals,  
NOTE Confidence: 0.948877

00:48:41.430 --> 00:48:43.030 specifically if there are genetic  
NOTE Confidence: 0.948877

00:48:43.030 --> 00:48:45.290 mutations, a strong family history,  
NOTE Confidence: 0.99975586

00:48:45.989 --> 00:48:47.210 if you have a hereditary  
NOTE Confidence: 0.99975586

00:48:47.430 --> 00:48:48.650 condition with pancreatitis  
NOTE Confidence: 0.9433594

00:48:48.950 --> 00:48:49.770 or cysts.  
NOTE Confidence: 0.98903584

00:48:50.390 --> 00:48:51.849 But I will focus briefly  
NOTE Confidence: 0.98903584

00:48:51.910 --> 00:48:53.829 on how genetic mutations can  
NOTE Confidence: 0.98903584

00:48:53.829 --> 00:48:54.329 increase,  
NOTE Confidence: 0.9988607

00:48:54.835 --> 00:48:56.435 your risk of pancreas cancer  
NOTE Confidence: 0.9988607

00:48:56.435 --> 00:48:57.335 and the screening.

NOTE Confidence: 0.9968262

00:48:58.675 --> 00:48:59.715 If you have a first

NOTE Confidence: 0.9968262

00:48:59.715 --> 00:49:01.315 degree family member with a

NOTE Confidence: 0.9968262

00:49:01.315 --> 00:49:02.535 pancreatic cancer,

NOTE Confidence: 0.9591878

00:49:03.155 --> 00:49:04.675 that does mean that, actually,

NOTE Confidence: 0.9591878

00:49:04.675 --> 00:49:06.195 you should consider getting genetic

NOTE Confidence: 0.9591878

00:49:06.195 --> 00:49:07.175 testing because

NOTE Confidence: 0.982945

00:49:07.500 --> 00:49:08.780 ten to fifty percent ten

NOTE Confidence: 0.982945

00:49:08.780 --> 00:49:09.980 to fifteen percent of people

NOTE Confidence: 0.982945

00:49:09.980 --> 00:49:11.440 who have pancreatic cancers

NOTE Confidence: 0.9902344

00:49:12.060 --> 00:49:13.920 do have a mutation identified.

NOTE Confidence: 0.9980469

00:49:15.500 --> 00:49:16.000 Now,

NOTE Confidence: 0.9803467

00:49:16.620 --> 00:49:18.800 pancreatic cancer screening can happen

NOTE Confidence: 0.9803467

00:49:18.860 --> 00:49:20.000 through an endoscopy

NOTE Confidence: 0.90649414

00:49:27.224 --> 00:49:27.724 pancreas.

NOTE Confidence: 0.9404297

00:49:28.744 --> 00:49:29.244 And

NOTE Confidence: 0.8941797

00:49:29.785 --> 00:49:31.025 here is a brief table  
NOTE Confidence: 0.8941797

00:49:31.025 --> 00:49:32.265 just to show you that  
NOTE Confidence: 0.8941797

00:49:32.265 --> 00:49:34.265 depending on which gene you  
NOTE Confidence: 0.8941797

00:49:34.265 --> 00:49:34.364 might have as a mutation,  
NOTE Confidence: 0.8941797

00:49:34.364 --> 00:49:35.164 if you do have an  
NOTE Confidence: 0.9953003

00:49:35.619 --> 00:49:36.500 if you do have an  
NOTE Confidence: 0.9953003

00:49:36.500 --> 00:49:37.800 inherited cancer syndrome,  
NOTE Confidence: 0.9703311

00:49:38.660 --> 00:49:40.760 pancreas screening may be recommended  
NOTE Confidence: 0.9703311

00:49:40.820 --> 00:49:42.580 to begin begin as early  
NOTE Confidence: 0.9703311

00:49:42.580 --> 00:49:44.420 as age thirty or as  
NOTE Confidence: 0.9703311

00:49:44.420 --> 00:49:46.359 late as age fifty depending  
NOTE Confidence: 0.9703311

00:49:46.500 --> 00:49:47.000 on  
NOTE Confidence: 0.9935303

00:49:47.300 --> 00:49:48.020 what is,  
NOTE Confidence: 0.9998372

00:49:48.420 --> 00:49:49.480 what is found.  
NOTE Confidence: 0.99790734

00:49:50.785 --> 00:49:52.145 There are more studies going  
NOTE Confidence: 0.99790734

00:49:52.145 --> 00:49:53.425 on to find out whether

NOTE Confidence: 0.99790734  
00:49:53.425 --> 00:49:54.965 or not people can,  
NOTE Confidence: 0.97094727  
00:49:55.825 --> 00:49:56.325 find,  
NOTE Confidence: 0.9699707  
00:49:57.105 --> 00:49:59.364 pancreatic cancer screening helpful.  
NOTE Confidence: 0.9784614  
00:49:59.665 --> 00:50:00.864 For example, if you don't  
NOTE Confidence: 0.9784614  
00:50:00.864 --> 00:50:02.085 have a genetic condition,  
NOTE Confidence: 0.9915114  
00:50:02.430 --> 00:50:03.950 but you do have family  
NOTE Confidence: 0.9915114  
00:50:03.950 --> 00:50:05.950 history of pancreatic cancer and  
NOTE Confidence: 0.9915114  
00:50:05.950 --> 00:50:06.690 a lot of  
NOTE Confidence: 0.96829045  
00:50:06.989 --> 00:50:08.750 history. And there's actually a  
NOTE Confidence: 0.96829045  
00:50:08.750 --> 00:50:10.190 study called the CAPS five  
NOTE Confidence: 0.96829045  
00:50:10.190 --> 00:50:11.630 study, which is open here  
NOTE Confidence: 0.96829045  
00:50:11.630 --> 00:50:12.369 at Yale  
NOTE Confidence: 0.8745117  
00:50:12.750 --> 00:50:13.650 to help identify,  
NOTE Confidence: 0.92122394  
00:50:14.510 --> 00:50:15.885 individuals who might,  
NOTE Confidence: 0.9877264  
00:50:16.364 --> 00:50:18.364 benefit from increased screening. So  
NOTE Confidence: 0.9877264

00:50:18.364 --> 00:50:19.405 please reach out if you're  
NOTE Confidence: 0.9877264

00:50:19.405 --> 00:50:19.905 interested  
NOTE Confidence: 0.9952148

00:50:20.285 --> 00:50:21.745 in learning more about that.  
NOTE Confidence: 0.9085286

00:50:22.765 --> 00:50:23.905 So in conclusion,  
NOTE Confidence: 0.9778687

00:50:24.605 --> 00:50:26.125 early onset GI cancers are  
NOTE Confidence: 0.9778687

00:50:26.125 --> 00:50:27.005 on the rise, and young  
NOTE Confidence: 0.9778687

00:50:27.005 --> 00:50:29.185 adults may need, early screening  
NOTE Confidence: 0.9778687

00:50:29.245 --> 00:50:30.625 based on the risk factors.  
NOTE Confidence: 0.8776042

00:50:31.085 --> 00:50:31.739 And it's important  
NOTE Confidence: 0.74194336

00:50:38.860 --> 00:50:40.719 genetic condition that increases  
NOTE Confidence: 0.88635254

00:50:41.020 --> 00:50:41.920 your risk of GI  
NOTE Confidence: 0.96777344

00:50:42.460 --> 00:50:42.960 cancers,  
NOTE Confidence: 0.9454753

00:50:43.420 --> 00:50:44.540 there may be certain medical  
NOTE Confidence: 0.9454753

00:50:44.540 --> 00:50:46.300 or surgical options to reduce  
NOTE Confidence: 0.9454753

00:50:46.300 --> 00:50:47.040 your risk.  
NOTE Confidence: 0.9817139

00:50:48.035 --> 00:50:48.995 Thank you so much for

NOTE Confidence: 0.9817139  
00:50:48.995 --> 00:50:50.535 your time and attention, and,  
NOTE Confidence: 0.960319  
00:50:50.915 --> 00:50:51.955 I believe doctor Giry is  
NOTE Confidence: 0.960319  
00:50:51.955 --> 00:50:53.395 gonna be briefly talking about  
NOTE Confidence: 0.960319  
00:50:53.395 --> 00:50:54.835 the early onset cancer program,  
NOTE Confidence: 0.960319  
00:50:54.835 --> 00:50:55.955 and here's a QR code  
NOTE Confidence: 0.960319  
00:50:55.955 --> 00:50:57.075 if you're interested in learning  
NOTE Confidence: 0.960319  
00:50:57.075 --> 00:50:58.375 more about that as well.  
NOTE Confidence: 0.937389  
00:51:00.170 --> 00:51:01.530 Thank you very much, doctor  
NOTE Confidence: 0.937389  
00:51:01.530 --> 00:51:02.969 Sri Kumar, for that very  
NOTE Confidence: 0.937389  
00:51:02.969 --> 00:51:03.469 insightful  
NOTE Confidence: 0.9116211  
00:51:03.770 --> 00:51:04.270 presentation.  
NOTE Confidence: 0.88964844  
00:51:06.170 --> 00:51:06.489 And,  
NOTE Confidence: 0.979187  
00:51:07.770 --> 00:51:08.810 we have a few minutes  
NOTE Confidence: 0.979187  
00:51:08.810 --> 00:51:10.110 left for questions,  
NOTE Confidence: 0.9755615  
00:51:10.410 --> 00:51:11.690 and we actually had a  
NOTE Confidence: 0.9755615

00:51:11.690 --> 00:51:13.469 question that came through from,  
NOTE Confidence: 0.9966634

00:51:13.875 --> 00:51:15.094 an audience member,  
NOTE Confidence: 0.998291

00:51:15.635 --> 00:51:16.675 that I thought would be  
NOTE Confidence: 0.998291

00:51:16.675 --> 00:51:19.015 relevant for comment from both,  
NOTE Confidence: 0.9471214

00:51:19.715 --> 00:51:21.155 Amy Wiegand from the genetic  
NOTE Confidence: 0.9471214

00:51:21.155 --> 00:51:23.235 counseling experience and also doctor  
NOTE Confidence: 0.9471214

00:51:23.235 --> 00:51:23.735 Shreekumar,  
NOTE Confidence: 0.97857666

00:51:24.195 --> 00:51:25.655 because it's related to,  
NOTE Confidence: 0.91435546

00:51:26.114 --> 00:51:27.960 an MLH one gene question,  
NOTE Confidence: 0.9812622

00:51:28.599 --> 00:51:29.640 which is, you know, related  
NOTE Confidence: 0.9812622

00:51:29.640 --> 00:51:30.619 to Lynch syndrome.  
NOTE Confidence: 0.9645996

00:51:30.920 --> 00:51:32.119 And the question said,  
NOTE Confidence: 0.9831543

00:51:32.520 --> 00:51:33.260 was asking,  
NOTE Confidence: 0.97405136

00:51:33.640 --> 00:51:35.239 does a personal history of  
NOTE Confidence: 0.97405136

00:51:35.239 --> 00:51:36.060 early onset,  
NOTE Confidence: 0.99869794

00:51:38.440 --> 00:51:38.940 gynecologic

NOTE Confidence: 1  
00:51:39.239 --> 00:51:39.739 cancer  
NOTE Confidence: 0.9347534  
00:51:40.244 --> 00:51:41.204 that has an m l  
NOTE Confidence: 0.9347534  
00:51:41.204 --> 00:51:42.424 h one deficiency  
NOTE Confidence: 0.99934894  
00:51:42.724 --> 00:51:43.704 due to methylation  
NOTE Confidence: 0.9709961  
00:51:44.884 --> 00:51:46.244 and the genetic testing is  
NOTE Confidence: 0.9709961  
00:51:46.244 --> 00:51:47.924 negative, does that increase the  
NOTE Confidence: 0.9709961  
00:51:47.924 --> 00:51:49.864 risk of a GI cancer?  
NOTE Confidence: 0.99318624  
00:51:50.484 --> 00:51:52.265 So thinking about, you know,  
NOTE Confidence: 0.99318624  
00:51:52.404 --> 00:51:53.444 is this type of, you  
NOTE Confidence: 0.99318624  
00:51:53.444 --> 00:51:53.944 know,  
NOTE Confidence: 0.89819336  
00:51:54.350 --> 00:51:55.250 testing result  
NOTE Confidence: 1  
00:51:55.710 --> 00:51:56.210 informative  
NOTE Confidence: 1  
00:51:56.670 --> 00:51:57.170 for  
NOTE Confidence: 0.97593063  
00:51:57.469 --> 00:51:59.469 a hereditary cancer risk? I'll,  
NOTE Confidence: 0.97593063  
00:51:59.710 --> 00:52:00.750 turn it over to Amy  
NOTE Confidence: 0.97593063

00:52:00.750 --> 00:52:02.270 first just talking about, you  
NOTE Confidence: 0.97593063

00:52:02.270 --> 00:52:03.310 know, the different types of  
NOTE Confidence: 0.97593063

00:52:03.310 --> 00:52:04.510 genetic tests and and what  
NOTE Confidence: 0.97593063

00:52:04.510 --> 00:52:05.469 they can kind of tell  
NOTE Confidence: 0.97593063

00:52:05.469 --> 00:52:06.530 us in different ways.  
NOTE Confidence: 0.9815499

00:52:07.605 --> 00:52:08.805 Yeah. That's that's a great  
NOTE Confidence: 0.9815499

00:52:08.805 --> 00:52:09.605 question. So,  
NOTE Confidence: 0.9995117

00:52:10.325 --> 00:52:11.385 just methylation  
NOTE Confidence: 0.9768102

00:52:12.085 --> 00:52:13.465 the the MLH one methylation,  
NOTE Confidence: 0.9768102

00:52:13.685 --> 00:52:15.225 that is considered to be  
NOTE Confidence: 0.9768102

00:52:15.525 --> 00:52:17.125 a somatic change in the  
NOTE Confidence: 0.9768102

00:52:17.125 --> 00:52:19.285 tumor itself. So if someone  
NOTE Confidence: 0.9768102

00:52:19.285 --> 00:52:20.585 has Lynch syndrome,  
NOTE Confidence: 0.999056

00:52:21.320 --> 00:52:22.940 if someone has Lynch syndrome,  
NOTE Confidence: 0.999056

00:52:23.000 --> 00:52:24.760 we might see them if  
NOTE Confidence: 0.999056

00:52:24.760 --> 00:52:26.700 they have an inherited mutation,

NOTE Confidence: 0.9571262  
00:52:27.160 --> 00:52:28.200 one that they're born with,  
NOTE Confidence: 0.9571262  
00:52:28.200 --> 00:52:29.739 and the MLH one gene,  
NOTE Confidence: 0.9571262  
00:52:29.880 --> 00:52:30.680 if they were to go  
NOTE Confidence: 0.9571262  
00:52:30.680 --> 00:52:31.480 on to develop,  
NOTE Confidence: 0.9967448  
00:52:31.880 --> 00:52:32.380 gynecological  
NOTE Confidence: 0.9970703  
00:52:32.760 --> 00:52:33.260 cancer,  
NOTE Confidence: 0.93961585  
00:52:33.864 --> 00:52:34.445 that gynecological  
NOTE Confidence: 0.97402346  
00:52:34.745 --> 00:52:36.425 cancer might be more likely  
NOTE Confidence: 0.97402346  
00:52:36.425 --> 00:52:37.965 to be MLH one deficient.  
NOTE Confidence: 0.9979607  
00:52:38.425 --> 00:52:40.505 However, methylation of MLH one  
NOTE Confidence: 0.9979607  
00:52:40.505 --> 00:52:41.785 is something that just occurs  
NOTE Confidence: 0.9979607  
00:52:41.785 --> 00:52:43.225 in the cancer itself. It's  
NOTE Confidence: 0.9979607  
00:52:43.225 --> 00:52:44.045 not due  
NOTE Confidence: 0.9947917  
00:52:44.825 --> 00:52:45.725 to an inherited  
NOTE Confidence: 0.95296633  
00:52:46.469 --> 00:52:48.230 gene mutation, and particularly if  
NOTE Confidence: 0.95296633

00:52:48.230 --> 00:52:50.230 that person had negative genetic  
NOTE Confidence: 0.95296633

00:52:50.230 --> 00:52:52.330 testing, negative germline genetic testing.  
NOTE Confidence: 0.95296633

00:52:52.550 --> 00:52:54.010 Most likely what that represents  
NOTE Confidence: 0.95296633

00:52:54.070 --> 00:52:55.109 is that there this was  
NOTE Confidence: 0.95296633

00:52:55.109 --> 00:52:57.190 a sporadic cancer, something that  
NOTE Confidence: 0.95296633

00:52:57.190 --> 00:52:58.310 occurred to, again, due to  
NOTE Confidence: 0.95296633

00:52:58.310 --> 00:52:59.770 a combination of other factors.  
NOTE Confidence: 0.95060223

00:53:00.094 --> 00:53:01.535 And having that MLH one  
NOTE Confidence: 0.95060223

00:53:01.535 --> 00:53:02.035 deficient  
NOTE Confidence: 0.9995117

00:53:02.494 --> 00:53:03.474 cancer alone  
NOTE Confidence: 0.9844835

00:53:03.775 --> 00:53:05.855 with negative Lynch syndrome testing  
NOTE Confidence: 0.9844835

00:53:05.855 --> 00:53:06.894 is not known to be  
NOTE Confidence: 0.9844835

00:53:06.894 --> 00:53:08.594 related with to increased risk  
NOTE Confidence: 0.9844835

00:53:08.654 --> 00:53:09.795 of GI cancers.  
NOTE Confidence: 0.977211

00:53:10.815 --> 00:53:12.030 Thank you very much, Amy.  
NOTE Confidence: 0.977211

00:53:12.270 --> 00:53:13.390 Doctor Sreekumar, would you like

NOTE Confidence: 0.977211  
00:53:13.390 --> 00:53:14.830 to add anything about the  
NOTE Confidence: 0.977211  
00:53:14.830 --> 00:53:16.910 potential connection between cancers if  
NOTE Confidence: 0.977211  
00:53:16.910 --> 00:53:18.210 it's a germline mutation?  
NOTE Confidence: 0.9995117  
00:53:18.989 --> 00:53:20.450 Yeah. Thank you so much,  
NOTE Confidence: 1  
00:53:20.910 --> 00:53:21.410 Amy.  
NOTE Confidence: 0.99609375  
00:53:21.870 --> 00:53:22.350 So,  
NOTE Confidence: 0.974714  
00:53:23.230 --> 00:53:24.989 I totally agree. So if  
NOTE Confidence: 0.974714  
00:53:24.989 --> 00:53:25.730 you have,  
NOTE Confidence: 0.9252581  
00:53:27.065 --> 00:53:28.984 a methylation of the MLH  
NOTE Confidence: 0.9252581  
00:53:28.984 --> 00:53:29.644 one gene,  
NOTE Confidence: 0.99937856  
00:53:30.105 --> 00:53:30.984 the other way that I  
NOTE Confidence: 0.99937856  
00:53:30.984 --> 00:53:32.184 like to think about this  
NOTE Confidence: 0.99937856  
00:53:32.184 --> 00:53:32.684 is  
NOTE Confidence: 0.9908203  
00:53:33.704 --> 00:53:36.204 you have almost a signal  
NOTE Confidence: 0.9995117  
00:53:36.744 --> 00:53:37.484 that is  
NOTE Confidence: 0.99902344

00:53:37.785 --> 00:53:38.285 acquired  
NOTE Confidence: 0.96540177

00:53:38.744 --> 00:53:40.505 over time that develops usually  
NOTE Confidence: 0.96540177

00:53:40.505 --> 00:53:41.244 with age  
NOTE Confidence: 0.918396

00:53:41.545 --> 00:53:43.430 that is turning off your  
NOTE Confidence: 0.918396

00:53:43.430 --> 00:53:44.969 MLH one gene  
NOTE Confidence: 0.9114746

00:53:45.270 --> 00:53:47.450 usually in a local area.  
NOTE Confidence: 0.98420155

00:53:47.829 --> 00:53:49.430 And so it's not in  
NOTE Confidence: 0.98420155

00:53:49.430 --> 00:53:50.950 every cancer every cell in  
NOTE Confidence: 0.98420155

00:53:50.950 --> 00:53:51.910 the body the way that  
NOTE Confidence: 0.98420155

00:53:51.910 --> 00:53:54.170 Amy had described inherited mutations  
NOTE Confidence: 0.98420155

00:53:54.309 --> 00:53:55.910 are. It's acquired at a  
NOTE Confidence: 0.98420155

00:53:55.910 --> 00:53:57.614 later age. So if you  
NOTE Confidence: 0.98420155

00:53:57.614 --> 00:53:59.935 have a germline genetic testing  
NOTE Confidence: 0.98420155

00:53:59.935 --> 00:54:00.995 that is negative,  
NOTE Confidence: 0.9995117

00:54:01.455 --> 00:54:03.075 then it is unlikely  
NOTE Confidence: 0.9935303

00:54:03.535 --> 00:54:04.495 to be,

NOTE Confidence: 0.9977214  
00:54:05.055 --> 00:54:06.735 associated with an increased risk  
NOTE Confidence: 0.9977214  
00:54:06.735 --> 00:54:08.094 of a GI cancer. Of  
NOTE Confidence: 0.9977214  
00:54:08.094 --> 00:54:09.375 course, it's always important to  
NOTE Confidence: 0.9977214  
00:54:09.375 --> 00:54:10.815 know your full family history  
NOTE Confidence: 0.9977214  
00:54:10.815 --> 00:54:12.250 and other personal history as  
NOTE Confidence: 0.9977214  
00:54:12.250 --> 00:54:13.210 well to see whether or  
NOTE Confidence: 0.9977214  
00:54:13.210 --> 00:54:14.090 not there may be other  
NOTE Confidence: 0.9977214  
00:54:14.090 --> 00:54:14.590 reasons,  
NOTE Confidence: 0.972229  
00:54:15.370 --> 00:54:16.590 to have an increased,  
NOTE Confidence: 0.9660034  
00:54:16.890 --> 00:54:18.270 risk for GI cancer,  
NOTE Confidence: 0.9953369  
00:54:18.730 --> 00:54:20.330 but, this one in itself,  
NOTE Confidence: 0.9953369  
00:54:20.650 --> 00:54:22.110 may not increase the risk.  
NOTE Confidence: 0.9992676  
00:54:22.650 --> 00:54:23.770 Yes. Thank you for that  
NOTE Confidence: 0.9992676  
00:54:23.770 --> 00:54:24.270 question.  
NOTE Confidence: 0.98488766  
00:54:24.935 --> 00:54:26.695 And, doctor Prasaloglu, a question  
NOTE Confidence: 0.98488766

00:54:26.695 --> 00:54:27.494 that we get asked a  
NOTE Confidence: 0.98488766

00:54:27.494 --> 00:54:28.234 lot is,  
NOTE Confidence: 0.93688023

00:54:28.695 --> 00:54:30.215 what kind of discussions do  
NOTE Confidence: 0.93688023

00:54:30.215 --> 00:54:31.815 you have in a breast  
NOTE Confidence: 0.93688023

00:54:31.815 --> 00:54:33.035 cancer risk assessment,  
NOTE Confidence: 0.9743042

00:54:33.655 --> 00:54:35.195 visit, with a patient?  
NOTE Confidence: 0.9902344

00:54:35.815 --> 00:54:37.350 For example, what are the  
NOTE Confidence: 0.9902344

00:54:37.350 --> 00:54:38.630 pros and cons of having  
NOTE Confidence: 0.9902344

00:54:38.630 --> 00:54:40.390 a mammogram done for a  
NOTE Confidence: 0.9902344

00:54:40.390 --> 00:54:40.890 young,  
NOTE Confidence: 1

00:54:41.270 --> 00:54:41.770 individual  
NOTE Confidence: 0.97083807

00:54:42.310 --> 00:54:43.590 versus some of the other  
NOTE Confidence: 0.97083807

00:54:43.590 --> 00:54:45.030 imaging tests like a breast  
NOTE Confidence: 0.97083807

00:54:45.030 --> 00:54:46.630 MRI, let's say? What are  
NOTE Confidence: 0.97083807

00:54:46.630 --> 00:54:48.150 some of the key, topics  
NOTE Confidence: 0.97083807

00:54:48.150 --> 00:54:49.270 or key pearls that you

NOTE Confidence: 0.97083807  
00:54:49.270 --> 00:54:50.310 discuss in in a breast  
NOTE Confidence: 0.97083807  
00:54:50.310 --> 00:54:51.590 risk assessment visit when you're  
NOTE Confidence: 0.97083807  
00:54:51.590 --> 00:54:52.650 having these discussions?  
NOTE Confidence: 0.9526652  
00:54:53.315 --> 00:54:54.275 Yeah. That's a it's a  
NOTE Confidence: 0.9526652  
00:54:54.275 --> 00:54:56.055 great question, doctor Geary. So,  
NOTE Confidence: 0.9940143  
00:54:56.515 --> 00:54:57.954 you know, broadly, when I  
NOTE Confidence: 0.9940143  
00:54:57.954 --> 00:54:58.994 meet someone for the first  
NOTE Confidence: 0.9940143  
00:54:58.994 --> 00:55:00.114 time, we spend a lot  
NOTE Confidence: 0.9940143  
00:55:00.114 --> 00:55:01.474 of time talking about their  
NOTE Confidence: 0.9940143  
00:55:01.474 --> 00:55:03.394 personal and family history to  
NOTE Confidence: 0.9940143  
00:55:03.394 --> 00:55:04.535 try to figure out  
NOTE Confidence: 0.98184204  
00:55:05.330 --> 00:55:07.090 which element is driving their  
NOTE Confidence: 0.98184204  
00:55:07.090 --> 00:55:08.610 risk the most. For example,  
NOTE Confidence: 0.98184204  
00:55:08.610 --> 00:55:09.810 if they're a known gene  
NOTE Confidence: 0.98184204  
00:55:09.810 --> 00:55:10.930 carrier, we spend a lot  
NOTE Confidence: 0.98184204

00:55:10.930 --> 00:55:12.230 of time talking about  
NOTE Confidence: 0.9982422

00:55:12.770 --> 00:55:14.469 the breast cancer risk associated  
NOTE Confidence: 0.97965497

00:55:14.850 --> 00:55:15.969 with that gene as well  
NOTE Confidence: 0.97965497

00:55:15.969 --> 00:55:17.270 as any other associated  
NOTE Confidence: 0.99975586

00:55:17.810 --> 00:55:19.270 risks with other cancers.  
NOTE Confidence: 0.9986328

00:55:20.005 --> 00:55:21.305 When it comes to imaging,  
NOTE Confidence: 0.9877695

00:55:21.685 --> 00:55:23.364 you know, our general guidance  
NOTE Confidence: 0.9877695

00:55:23.364 --> 00:55:24.645 is that if your exam  
NOTE Confidence: 0.9877695

00:55:24.645 --> 00:55:26.805 is normal, mammogram less than  
NOTE Confidence: 0.9877695

00:55:26.805 --> 00:55:28.085 age thirty is really not  
NOTE Confidence: 0.9877695

00:55:28.085 --> 00:55:29.605 beneficial. And people ask all  
NOTE Confidence: 0.9877695

00:55:29.605 --> 00:55:30.984 the time why that is.  
NOTE Confidence: 0.9877695

00:55:31.125 --> 00:55:32.825 And it's because young people  
NOTE Confidence: 0.9877695

00:55:32.965 --> 00:55:34.325 tend to have very dense  
NOTE Confidence: 0.9877695

00:55:34.325 --> 00:55:36.880 breast tissue where minor changes  
NOTE Confidence: 0.9877695

00:55:36.940 --> 00:55:38.300 in the breast tissue that

NOTE Confidence: 0.9877695  
00:55:38.300 --> 00:55:39.120 might indicate  
NOTE Confidence: 0.9302368  
00:55:39.580 --> 00:55:40.960 a cancer or precancer  
NOTE Confidence: 0.99851704  
00:55:41.580 --> 00:55:42.620 are really not able to  
NOTE Confidence: 0.99851704  
00:55:42.620 --> 00:55:43.760 be seen on mammogram.  
NOTE Confidence: 0.99383545  
00:55:44.140 --> 00:55:45.360 Now there's an important  
NOTE Confidence: 0.97429013  
00:55:45.660 --> 00:55:47.100 caveat here, right, which is  
NOTE Confidence: 0.97429013  
00:55:47.100 --> 00:55:48.860 that is assuming that someone's  
NOTE Confidence: 0.97429013  
00:55:48.860 --> 00:55:49.920 exam is normal.  
NOTE Confidence: 0.9626116  
00:55:50.415 --> 00:55:51.715 If you have a symptom,  
NOTE Confidence: 0.9626116  
00:55:51.935 --> 00:55:53.614 for example, you have bloody  
NOTE Confidence: 0.9626116  
00:55:53.614 --> 00:55:55.455 nipple discharge or your doctor  
NOTE Confidence: 0.9626116  
00:55:55.455 --> 00:55:56.815 feels a mass during your  
NOTE Confidence: 0.9626116  
00:55:56.815 --> 00:55:57.315 exam,  
NOTE Confidence: 0.97998047  
00:55:57.695 --> 00:55:59.215 regardless of your age, even  
NOTE Confidence: 0.97998047  
00:55:59.215 --> 00:56:00.335 though we might start with  
NOTE Confidence: 0.97998047

00:56:00.335 --> 00:56:01.855 an ultrasound, and I'll circle  
NOTE Confidence: 0.97998047

00:56:01.855 --> 00:56:03.614 back to ultrasound MRI in  
NOTE Confidence: 0.97998047

00:56:03.614 --> 00:56:04.275 a minute,  
NOTE Confidence: 0.99258703

00:56:05.070 --> 00:56:07.010 diagnostic mammogram is really important  
NOTE Confidence: 0.99258703

00:56:07.150 --> 00:56:08.510 because it's very good at  
NOTE Confidence: 0.99258703

00:56:08.510 --> 00:56:09.010 catching,  
NOTE Confidence: 0.99627686

00:56:09.630 --> 00:56:10.770 what are called calcifications  
NOTE Confidence: 0.9683838

00:56:11.150 --> 00:56:12.610 or little sort of,  
NOTE Confidence: 0.94649833

00:56:13.790 --> 00:56:15.390 you know, calcium deposits that  
NOTE Confidence: 0.94649833

00:56:15.390 --> 00:56:16.830 can indicate cancer. And that's  
NOTE Confidence: 0.94649833

00:56:16.830 --> 00:56:18.190 really mammogram is really the  
NOTE Confidence: 0.94649833

00:56:18.190 --> 00:56:19.150 only way we can see  
NOTE Confidence: 0.94649833

00:56:19.150 --> 00:56:19.650 those.  
NOTE Confidence: 0.9953801

00:56:20.085 --> 00:56:21.125 But if we did that  
NOTE Confidence: 0.9953801

00:56:21.125 --> 00:56:22.565 routinely on all women in  
NOTE Confidence: 0.9953801

00:56:22.565 --> 00:56:23.625 their mid twenties,

NOTE Confidence: 0.9982422  
00:56:23.925 --> 00:56:25.464 we wouldn't find almost anything.  
NOTE Confidence: 0.9057617  
00:56:26.165 --> 00:56:27.385 Now MRI  
NOTE Confidence: 0.9872943  
00:56:27.844 --> 00:56:29.605 is our most detail oriented  
NOTE Confidence: 0.9872943  
00:56:29.605 --> 00:56:30.805 test. So for our high  
NOTE Confidence: 0.9872943  
00:56:30.805 --> 00:56:32.484 risk patients, it's the test  
NOTE Confidence: 0.9872943  
00:56:32.484 --> 00:56:33.525 that gives us the most  
NOTE Confidence: 0.9872943  
00:56:33.525 --> 00:56:35.219 information. But if you were  
NOTE Confidence: 0.9872943  
00:56:35.219 --> 00:56:36.100 sitting in front of me  
NOTE Confidence: 0.9872943  
00:56:36.100 --> 00:56:37.300 as a new patient, I  
NOTE Confidence: 0.9872943  
00:56:37.300 --> 00:56:38.340 would tell you, you know,  
NOTE Confidence: 0.9872943  
00:56:38.340 --> 00:56:39.860 it's very detail oriented. It's  
NOTE Confidence: 0.9872943  
00:56:39.860 --> 00:56:40.600 very sensitive.  
NOTE Confidence: 0.9918339  
00:56:41.140 --> 00:56:42.500 But it's not very specific,  
NOTE Confidence: 0.9918339  
00:56:42.500 --> 00:56:43.460 which means it's not the  
NOTE Confidence: 0.9918339  
00:56:43.460 --> 00:56:44.980 smartest test. When we do  
NOTE Confidence: 0.9918339

00:56:44.980 --> 00:56:46.260 an MRI for the first  
NOTE Confidence: 0.9918339

00:56:46.260 --> 00:56:47.685 time of the breast, we  
NOTE Confidence: 0.9918339

00:56:47.685 --> 00:56:49.305 will see any abnormality,  
NOTE Confidence: 0.95277625

00:56:49.685 --> 00:56:50.885 which can be a cancer  
NOTE Confidence: 0.95277625

00:56:50.885 --> 00:56:51.625 or precancer,  
NOTE Confidence: 0.9563802

00:56:51.925 --> 00:56:53.125 but in young women, it's  
NOTE Confidence: 0.9563802

00:56:53.125 --> 00:56:54.425 more likely to be  
NOTE Confidence: 0.99380773

00:56:55.125 --> 00:56:57.445 lactational changes, hormonal changes, or  
NOTE Confidence: 0.99380773

00:56:57.445 --> 00:56:59.125 benign masses. And so that's  
NOTE Confidence: 0.99380773

00:56:59.125 --> 00:57:00.405 why, you know, with each  
NOTE Confidence: 0.99380773

00:57:00.405 --> 00:57:01.685 patient, we really try to  
NOTE Confidence: 0.99380773

00:57:01.685 --> 00:57:02.505 think about  
NOTE Confidence: 0.980072

00:57:02.820 --> 00:57:04.680 what is your specific indication  
NOTE Confidence: 0.980072

00:57:04.900 --> 00:57:06.040 for early screening.  
NOTE Confidence: 0.9913025

00:57:07.140 --> 00:57:08.840 And, you know, the MRI  
NOTE Confidence: 0.9913025

00:57:09.060 --> 00:57:10.760 is really good in supplement

NOTE Confidence: 0.9913025  
00:57:10.900 --> 00:57:12.580 to the mammogram beyond age  
NOTE Confidence: 0.9913025  
00:57:12.580 --> 00:57:13.080 thirty.  
NOTE Confidence: 0.9906656  
00:57:13.460 --> 00:57:14.835 But for our highest risk  
NOTE Confidence: 0.9906656  
00:57:14.994 --> 00:57:16.835 patients, even without that baseline  
NOTE Confidence: 0.9906656  
00:57:16.835 --> 00:57:18.775 mammogram, an MRI is useful  
NOTE Confidence: 0.9906656  
00:57:18.835 --> 00:57:20.375 since we can see cancers  
NOTE Confidence: 0.9988281  
00:57:20.835 --> 00:57:22.195 so very early in some  
NOTE Confidence: 0.9988281  
00:57:22.195 --> 00:57:23.815 of those gene positive patients.  
NOTE Confidence: 0.98634493  
00:57:24.515 --> 00:57:25.474 And then at a in  
NOTE Confidence: 0.98634493  
00:57:25.474 --> 00:57:26.515 a visit, we'll have, you  
NOTE Confidence: 0.98634493  
00:57:26.515 --> 00:57:28.275 know, thoughtful shared decision making  
NOTE Confidence: 0.98634493  
00:57:28.275 --> 00:57:29.315 about whether or not we  
NOTE Confidence: 0.98634493  
00:57:29.315 --> 00:57:30.450 should also be adding an  
NOTE Confidence: 0.98634493  
00:57:30.530 --> 00:57:31.750 ultrasound in for screening,  
NOTE Confidence: 0.99780273  
00:57:32.210 --> 00:57:33.670 which is usually not necessary  
NOTE Confidence: 0.99780273

00:57:33.730 --> 00:57:34.530 when you do both the  
NOTE Confidence: 0.99780273

00:57:34.530 --> 00:57:35.589 MRI and the mammogram,  
NOTE Confidence: 0.95405275

00:57:36.050 --> 00:57:37.410 but something obviously to talk  
NOTE Confidence: 0.95405275

00:57:37.410 --> 00:57:39.030 about with your individual doctor.  
NOTE Confidence: 0.99975586

00:57:40.210 --> 00:57:41.490 Thank you so much. Very  
NOTE Confidence: 0.99975586

00:57:41.490 --> 00:57:41.990 helpful.  
NOTE Confidence: 0.9909017

00:57:42.945 --> 00:57:44.225 Another question that we are  
NOTE Confidence: 0.9909017

00:57:44.225 --> 00:57:45.905 asked quite a bit is,  
NOTE Confidence: 0.9909017

00:57:46.225 --> 00:57:48.405 regarding the family history information.  
NOTE Confidence: 0.9641113

00:57:48.785 --> 00:57:49.285 And,  
NOTE Confidence: 0.98172

00:57:50.465 --> 00:57:51.985 sometimes that information can be  
NOTE Confidence: 0.98172

00:57:51.985 --> 00:57:53.505 challenging to know or is  
NOTE Confidence: 0.98172

00:57:53.505 --> 00:57:55.285 just unknown in a family  
NOTE Confidence: 0.98172

00:57:55.345 --> 00:57:55.845 or  
NOTE Confidence: 0.9422966

00:57:56.260 --> 00:57:57.220 in one side of the  
NOTE Confidence: 0.9422966

00:57:57.220 --> 00:57:58.660 family or versus another side

NOTE Confidence: 0.9422966  
00:57:58.660 --> 00:58:00.260 of the family or say  
NOTE Confidence: 0.9422966  
00:58:00.260 --> 00:58:00.920 in relatives.  
NOTE Confidence: 0.9706543  
00:58:01.380 --> 00:58:03.320 So, Amy, how do you,  
NOTE Confidence: 0.9802246  
00:58:03.620 --> 00:58:05.060 what is your recommendation in  
NOTE Confidence: 0.9802246  
00:58:05.060 --> 00:58:05.960 terms of,  
NOTE Confidence: 0.97426534  
00:58:07.380 --> 00:58:08.980 limited knowledge of family history?  
NOTE Confidence: 0.97426534  
00:58:08.980 --> 00:58:10.020 And can it still be  
NOTE Confidence: 0.97426534  
00:58:10.020 --> 00:58:10.520 beneficial  
NOTE Confidence: 0.99675435  
00:58:11.205 --> 00:58:12.665 for a person to bring  
NOTE Confidence: 0.99675435  
00:58:12.805 --> 00:58:14.805 some information to their doctors  
NOTE Confidence: 0.99675435  
00:58:14.805 --> 00:58:15.845 or potentially meet with a  
NOTE Confidence: 0.99675435  
00:58:15.845 --> 00:58:16.745 genetic counselor?  
NOTE Confidence: 0.9952916  
00:58:17.925 --> 00:58:19.205 Yeah. That's a great question.  
NOTE Confidence: 0.9952916  
00:58:19.205 --> 00:58:19.865 I think,  
NOTE Confidence: 0.9926092  
00:58:20.965 --> 00:58:21.845 as I said, I think  
NOTE Confidence: 0.9926092

00:58:21.845 --> 00:58:23.205 in terms of collecting family  
NOTE Confidence: 0.9926092

00:58:23.205 --> 00:58:24.565 history, I think all you  
NOTE Confidence: 0.9926092

00:58:24.565 --> 00:58:25.925 can do is the the  
NOTE Confidence: 0.9926092

00:58:25.925 --> 00:58:27.339 best that you can. I  
NOTE Confidence: 0.9926092

00:58:27.339 --> 00:58:27.980 I think we all know  
NOTE Confidence: 0.9926092

00:58:27.980 --> 00:58:29.260 there can be family dynamics  
NOTE Confidence: 0.9926092

00:58:29.260 --> 00:58:30.300 that can make it really  
NOTE Confidence: 0.9926092

00:58:30.300 --> 00:58:31.599 challenging to get information.  
NOTE Confidence: 0.9971517

00:58:31.900 --> 00:58:33.099 And the farther back you  
NOTE Confidence: 0.9971517

00:58:33.099 --> 00:58:33.599 go,  
NOTE Confidence: 0.9834527

00:58:33.980 --> 00:58:34.859 you may not have that  
NOTE Confidence: 0.9834527

00:58:34.859 --> 00:58:36.880 information, especially if someone  
NOTE Confidence: 0.9814453

00:58:37.339 --> 00:58:39.260 especially generations ago where cancer  
NOTE Confidence: 0.9814453

00:58:39.260 --> 00:58:40.780 was either not discussed because  
NOTE Confidence: 0.9814453

00:58:40.780 --> 00:58:41.599 it was taboo  
NOTE Confidence: 0.9537598

00:58:41.994 --> 00:58:44.255 or was, possibly not diagnosed.

NOTE Confidence: 0.99224854  
00:58:45.035 --> 00:58:45.915 So I think if with  
NOTE Confidence: 0.99224854  
00:58:45.915 --> 00:58:47.135 limited family history,  
NOTE Confidence: 0.97411484  
00:58:47.515 --> 00:58:48.955 sometimes even just getting ages  
NOTE Confidence: 0.97411484  
00:58:48.955 --> 00:58:50.335 of death could be helpful  
NOTE Confidence: 0.97411484  
00:58:50.395 --> 00:58:51.835 or, like, anything that maybe  
NOTE Confidence: 0.97411484  
00:58:51.835 --> 00:58:53.275 could be surrounding, like, maybe  
NOTE Confidence: 0.97411484  
00:58:53.275 --> 00:58:54.395 what caused their death that  
NOTE Confidence: 0.97411484  
00:58:54.395 --> 00:58:55.994 maybe could be helpful, maybe  
NOTE Confidence: 0.97411484  
00:58:55.994 --> 00:58:57.900 thinking about if they maybe  
NOTE Confidence: 0.97411484  
00:58:57.900 --> 00:58:59.599 died of, advanced cancer.  
NOTE Confidence: 0.9373685  
00:58:59.980 --> 00:59:00.859 I still think even if  
NOTE Confidence: 0.9373685  
00:59:00.859 --> 00:59:02.619 someone has a a limited  
NOTE Confidence: 0.9373685  
00:59:02.619 --> 00:59:03.920 family history understanding,  
NOTE Confidence: 0.9323188  
00:59:04.299 --> 00:59:05.500 maybe meeting with a genetic  
NOTE Confidence: 0.9323188  
00:59:05.500 --> 00:59:06.640 counselor could be helpful.  
NOTE Confidence: 0.9394415

00:59:07.099 --> 00:59:08.220 Even though we really focus  
NOTE Confidence: 0.9394415

00:59:08.220 --> 00:59:09.760 on family history of cancer,  
NOTE Confidence: 0.9394415

00:59:09.819 --> 00:59:10.859 and as we've talked about,  
NOTE Confidence: 0.9394415

00:59:11.180 --> 00:59:12.380 everyone's talked about this whole  
NOTE Confidence: 0.9394415

00:59:12.380 --> 00:59:12.880 presentation,  
NOTE Confidence: 0.9775216

00:59:13.445 --> 00:59:14.725 family history can be really  
NOTE Confidence: 0.9775216

00:59:14.725 --> 00:59:16.565 important in risk assessment for  
NOTE Confidence: 0.9775216

00:59:16.565 --> 00:59:18.105 genetic testing, but also,  
NOTE Confidence: 0.9103074

00:59:18.645 --> 00:59:20.244 early cancer screening. It still  
NOTE Confidence: 0.9103074

00:59:20.244 --> 00:59:21.125 will be helpful to me  
NOTE Confidence: 0.9103074

00:59:21.125 --> 00:59:22.565 with a genetic counselor, I  
NOTE Confidence: 0.9103074

00:59:22.565 --> 00:59:24.165 think, you know, regardless just  
NOTE Confidence: 0.9103074

00:59:24.165 --> 00:59:24.665 because  
NOTE Confidence: 0.9705298

00:59:25.125 --> 00:59:26.380 have as as a genetic  
NOTE Confidence: 0.9705298

00:59:26.380 --> 00:59:27.340 counselor, what we do is  
NOTE Confidence: 0.9705298

00:59:27.340 --> 00:59:28.380 we take into account what

NOTE Confidence: 0.9705298  
00:59:28.380 --> 00:59:29.580 we know about your family  
NOTE Confidence: 0.9705298  
00:59:29.580 --> 00:59:31.180 history. We're able to make  
NOTE Confidence: 0.9705298  
00:59:31.180 --> 00:59:32.540 our assessment and then still  
NOTE Confidence: 0.9705298  
00:59:32.540 --> 00:59:34.620 discuss genetic testing options and  
NOTE Confidence: 0.9705298  
00:59:34.620 --> 00:59:36.380 kinda work walk walk you  
NOTE Confidence: 0.9705298  
00:59:36.380 --> 00:59:37.994 through what genetic testing might  
NOTE Confidence: 0.9705298  
00:59:37.994 --> 00:59:39.615 show, what might be recommended  
NOTE Confidence: 0.9705298  
00:59:39.674 --> 00:59:41.355 depending on the results. So  
NOTE Confidence: 0.9705298  
00:59:41.355 --> 00:59:42.074 I think at the end  
NOTE Confidence: 0.9705298  
00:59:42.074 --> 00:59:42.875 of the day, the best  
NOTE Confidence: 0.9705298  
00:59:42.875 --> 00:59:43.674 that you can do is  
NOTE Confidence: 0.9705298  
00:59:43.674 --> 00:59:44.315 the best that you can  
NOTE Confidence: 0.9705298  
00:59:44.315 --> 00:59:45.775 do with collecting family history.  
NOTE Confidence: 0.9705298  
00:59:45.835 --> 00:59:46.555 And if you do have  
NOTE Confidence: 0.9705298  
00:59:46.555 --> 00:59:48.075 family history of cancer that  
NOTE Confidence: 0.9705298

00:59:48.075 --> 00:59:49.595 is either you're unsure if  
NOTE Confidence: 0.9705298

00:59:49.595 --> 00:59:51.454 it's suspicious of hereditary cancer,  
NOTE Confidence: 0.9671631

00:59:51.869 --> 00:59:52.829 or you don't maybe don't  
NOTE Confidence: 0.9671631

00:59:52.829 --> 00:59:53.630 know a lot about it,  
NOTE Confidence: 0.9671631

00:59:53.630 --> 00:59:54.589 I still think meeting with  
NOTE Confidence: 0.9671631

00:59:54.589 --> 00:59:55.789 a genetic counselor could still  
NOTE Confidence: 0.9671631

00:59:55.789 --> 00:59:56.450 be helpful.  
NOTE Confidence: 0.9989258

00:59:57.710 --> 00:59:59.329 Absolutely. Thank you so much.  
NOTE Confidence: 0.98291016

01:00:00.109 --> 01:00:01.549 And then one final question,  
NOTE Confidence: 0.8689575

01:00:01.869 --> 01:00:02.769 doctor Shreekumar.  
NOTE Confidence: 0.92519534

01:00:03.309 --> 01:00:05.329 We received so many questions,  
NOTE Confidence: 1

01:00:06.295 --> 01:00:06.795 regarding  
NOTE Confidence: 0.9603027

01:00:07.255 --> 01:00:08.715 what can a person do  
NOTE Confidence: 0.9603027

01:00:09.015 --> 01:00:10.715 from a a diet standpoint,  
NOTE Confidence: 0.97528076

01:00:11.975 --> 01:00:13.195 when we think about,  
NOTE Confidence: 0.904541

01:00:13.815 --> 01:00:15.335 reducing risk for cancers and

NOTE Confidence: 0.904541  
01:00:15.335 --> 01:00:17.195 in particular, colon cancer.  
NOTE Confidence: 0.9765625  
01:00:18.390 --> 01:00:19.849 Do you have recommendations  
NOTE Confidence: 0.95996094  
01:00:20.390 --> 01:00:20.869 or,  
NOTE Confidence: 0.9874878  
01:00:21.349 --> 01:00:23.270 sources of information that,  
NOTE Confidence: 0.9680176  
01:00:23.670 --> 01:00:25.589 are trusted, reliable sources of  
NOTE Confidence: 0.9680176  
01:00:25.589 --> 01:00:26.730 information online  
NOTE Confidence: 0.9930284  
01:00:27.270 --> 01:00:28.309 that a person can go  
NOTE Confidence: 0.9930284  
01:00:28.309 --> 01:00:29.270 to? What how how do  
NOTE Confidence: 0.9930284  
01:00:29.270 --> 01:00:30.789 you, have these discussions with  
NOTE Confidence: 0.9930284  
01:00:30.789 --> 01:00:31.910 your patients when it comes  
NOTE Confidence: 0.9930284  
01:00:31.910 --> 01:00:33.505 to diet and reducing colon  
NOTE Confidence: 0.9930284  
01:00:33.505 --> 01:00:34.245 cancer risk?  
NOTE Confidence: 0.96964526  
01:00:35.105 --> 01:00:36.385 Yes. Thank you so much,  
NOTE Confidence: 0.96964526  
01:00:36.705 --> 01:00:38.145 doctor Geary, for that question.  
NOTE Confidence: 0.96964526  
01:00:38.145 --> 01:00:38.645 So,  
NOTE Confidence: 0.99943036

01:00:40.145 --> 01:00:41.665 you know, there have been  
NOTE Confidence: 0.99943036

01:00:41.665 --> 01:00:43.425 large studies that have been  
NOTE Confidence: 0.99943036

01:00:43.425 --> 01:00:44.645 done to  
NOTE Confidence: 1

01:00:45.359 --> 01:00:46.180 look at  
NOTE Confidence: 0.9718221

01:00:46.720 --> 01:00:48.660 what sort of diets might  
NOTE Confidence: 0.9718221

01:00:48.880 --> 01:00:50.880 increase your risk of colon  
NOTE Confidence: 0.9718221

01:00:50.880 --> 01:00:51.779 cancer, or  
NOTE Confidence: 0.99262154

01:00:52.240 --> 01:00:53.680 I should say, you know,  
NOTE Confidence: 0.99262154

01:00:53.680 --> 01:00:54.960 patients who are diagnosed with  
NOTE Confidence: 0.99262154

01:00:54.960 --> 01:00:56.160 colon cancer are found to  
NOTE Confidence: 0.99262154

01:00:56.160 --> 01:00:57.059 have a higher  
NOTE Confidence: 0.97595215

01:00:57.440 --> 01:00:59.055 certain subsets of diets,  
NOTE Confidence: 0.99960935

01:00:59.934 --> 01:01:01.555 and what might be protective  
NOTE Confidence: 0.9790039

01:01:01.855 --> 01:01:02.355 against,  
NOTE Confidence: 0.98764646

01:01:02.734 --> 01:01:04.095 diet. What I will say  
NOTE Confidence: 0.98764646

01:01:04.095 --> 01:01:06.595 is that it's not diet

NOTE Confidence: 0.98764646  
01:01:06.655 --> 01:01:08.815 alone that will influence whether  
NOTE Confidence: 0.98764646  
01:01:08.815 --> 01:01:09.954 or not you get colorectal  
NOTE Confidence: 0.98764646  
01:01:10.015 --> 01:01:11.395 cancer, and that's really important.  
NOTE Confidence: 0.609375  
01:01:12.630 --> 01:01:13.069 But,  
NOTE Confidence: 0.957959  
01:01:13.510 --> 01:01:14.790 it is maybe what we  
NOTE Confidence: 0.957959  
01:01:14.790 --> 01:01:16.710 consider to be, as as,  
NOTE Confidence: 0.94861853  
01:01:17.109 --> 01:01:19.190 doctor Pasalagu had mentioned, a  
NOTE Confidence: 0.94861853  
01:01:19.190 --> 01:01:20.730 modifiable risk factor.  
NOTE Confidence: 0.9934082  
01:01:21.109 --> 01:01:22.890 So it's important to,  
NOTE Confidence: 0.97680664  
01:01:23.510 --> 01:01:24.010 avoid,  
NOTE Confidence: 0.94091797  
01:01:24.710 --> 01:01:26.010 things such as,  
NOTE Confidence: 0.9818929  
01:01:27.475 --> 01:01:29.315 eating, too much red meat  
NOTE Confidence: 0.9818929  
01:01:29.315 --> 01:01:29.815 or,  
NOTE Confidence: 0.9445801  
01:01:30.675 --> 01:01:31.655 having overconsumption  
NOTE Confidence: 0.9838867  
01:01:31.955 --> 01:01:32.695 of alcohol.  
NOTE Confidence: 0.9746094

01:01:33.155 --> 01:01:34.135 Those are common,  
NOTE Confidence: 0.95832825

01:01:35.955 --> 01:01:37.075 things that I will talk  
NOTE Confidence: 0.95832825

01:01:37.075 --> 01:01:39.075 about with individuals who will  
NOTE Confidence: 0.95832825

01:01:39.075 --> 01:01:39.875 come see me at my  
NOTE Confidence: 0.95832825

01:01:39.875 --> 01:01:40.375 clinic.  
NOTE Confidence: 0.99328613

01:01:41.160 --> 01:01:42.060 Also important,  
NOTE Confidence: 0.9770952

01:01:42.599 --> 01:01:43.880 if possible, to try to  
NOTE Confidence: 0.9770952

01:01:43.880 --> 01:01:45.560 minimize the amount of sugar  
NOTE Confidence: 0.9770952

01:01:45.560 --> 01:01:46.060 sweetened  
NOTE Confidence: 0.9671224

01:01:46.839 --> 01:01:48.599 beverages that, you're drinking as  
NOTE Confidence: 0.9671224

01:01:48.599 --> 01:01:49.099 well.  
NOTE Confidence: 0.997454

01:01:49.560 --> 01:01:51.240 And, what we do see  
NOTE Confidence: 0.997454

01:01:51.240 --> 01:01:52.760 is that it seems that  
NOTE Confidence: 0.997454

01:01:52.760 --> 01:01:54.380 having a diet that  
NOTE Confidence: 0.9899292

01:01:54.775 --> 01:01:56.615 is high high in, you  
NOTE Confidence: 0.9899292

01:01:56.615 --> 01:01:58.855 know, vegetables and fruits and

NOTE Confidence: 0.9899292

01:01:58.855 --> 01:02:00.635 whole grains may be protective

NOTE Confidence: 0.9899292

01:02:00.775 --> 01:02:02.315 in this setting as well.

NOTE Confidence: 0.99853516

01:02:02.615 --> 01:02:03.095 So,

NOTE Confidence: 0.96643066

01:02:03.494 --> 01:02:04.615 what you what you eat

NOTE Confidence: 0.96643066

01:02:04.615 --> 01:02:05.755 really does matter.

NOTE Confidence: 0.99794006

01:02:06.615 --> 01:02:08.055 We think that what you

NOTE Confidence: 0.99794006

01:02:08.055 --> 01:02:10.120 eat can influence the healthy

NOTE Confidence: 0.99794006

01:02:10.180 --> 01:02:12.020 bacteria that is in your

NOTE Confidence: 0.99794006

01:02:12.020 --> 01:02:12.520 gut,

NOTE Confidence: 1

01:02:12.900 --> 01:02:13.400 which

NOTE Confidence: 0.9680447

01:02:13.940 --> 01:02:15.780 therefore might be leading to

NOTE Confidence: 0.9680447

01:02:15.780 --> 01:02:17.480 more or less inflammation

NOTE Confidence: 0.9947917

01:02:17.860 --> 01:02:19.080 and could be,

NOTE Confidence: 0.99675643

01:02:19.380 --> 01:02:20.980 you know, influencing your cancer

NOTE Confidence: 0.99675643

01:02:20.980 --> 01:02:22.980 risk. So really important thing

NOTE Confidence: 0.99675643

01:02:22.980 --> 01:02:24.365 to to think about.  
NOTE Confidence: 0.9991862

01:02:25.225 --> 01:02:26.665 Thank you so much. Yes.  
NOTE Confidence: 0.9991862

01:02:26.665 --> 01:02:27.165 Absolutely.  
NOTE Confidence: 0.98430526

01:02:27.465 --> 01:02:29.085 And the American Cancer Society  
NOTE Confidence: 0.98430526

01:02:29.225 --> 01:02:30.525 has, guidelines  
NOTE Confidence: 0.9998372

01:02:30.905 --> 01:02:32.445 for thinking about,  
NOTE Confidence: 0.9995117

01:02:33.145 --> 01:02:33.805 you know,  
NOTE Confidence: 0.8991699

01:02:34.585 --> 01:02:35.325 physical activity  
NOTE Confidence: 0.9456787

01:02:35.625 --> 01:02:36.365 and diet,  
NOTE Confidence: 0.86954755

01:02:37.200 --> 01:02:38.000 and kind of,  
NOTE Confidence: 0.99072266

01:02:38.480 --> 01:02:39.599 they break this down in  
NOTE Confidence: 0.99072266

01:02:39.599 --> 01:02:40.640 in a patient friendly way.  
NOTE Confidence: 0.99072266

01:02:40.640 --> 01:02:41.840 So that's a resource that  
NOTE Confidence: 0.99072266

01:02:41.840 --> 01:02:43.119 that, you know, anyone can  
NOTE Confidence: 0.99072266

01:02:43.119 --> 01:02:44.400 go to online as well.  
NOTE Confidence: 0.99072266

01:02:44.400 --> 01:02:44.900 So,

NOTE Confidence: 0.9374512  
01:02:45.840 --> 01:02:46.720 well, I would like to  
NOTE Confidence: 0.9374512  
01:02:46.720 --> 01:02:48.580 wrap up our Smilo shares,  
NOTE Confidence: 0.9239095  
01:02:49.040 --> 01:02:50.180 event for tonight,  
NOTE Confidence: 0.96118164  
01:02:51.265 --> 01:02:53.285 and, wanted to end by  
NOTE Confidence: 0.96118164  
01:02:53.345 --> 01:02:54.165 giving you,  
NOTE Confidence: 0.9971517  
01:02:54.625 --> 01:02:55.845 a little bit of information  
NOTE Confidence: 0.9971517  
01:02:55.984 --> 01:02:57.685 about the, two programs,  
NOTE Confidence: 0.9539005  
01:02:58.145 --> 01:02:59.585 the that you've heard about  
NOTE Confidence: 0.9539005  
01:02:59.585 --> 01:03:01.265 in in, throughout the talks  
NOTE Confidence: 0.9539005  
01:03:01.265 --> 01:03:03.025 tonight, the Yale Early Onset  
NOTE Confidence: 0.9539005  
01:03:03.025 --> 01:03:03.925 Cancer Program,  
NOTE Confidence: 0.925981  
01:03:04.820 --> 01:03:06.340 and the Yale or and  
NOTE Confidence: 0.925981  
01:03:06.340 --> 01:03:08.580 Smilo, cancer genetics and prevention  
NOTE Confidence: 0.925981  
01:03:08.580 --> 01:03:09.080 program.  
NOTE Confidence: 0.9964844  
01:03:09.540 --> 01:03:11.320 The early onset cancer program  
NOTE Confidence: 0.9874945

01:03:11.620 --> 01:03:13.140 at Yale Cancer Center and  
NOTE Confidence: 0.9874945

01:03:13.140 --> 01:03:13.640 Smilo,  
NOTE Confidence: 0.99975586

01:03:14.340 --> 01:03:15.800 is a dedicated team  
NOTE Confidence: 0.9998915

01:03:16.180 --> 01:03:17.940 that is focused on addressing  
NOTE Confidence: 0.9998915

01:03:17.940 --> 01:03:19.080 the needs of patients  
NOTE Confidence: 0.98999023

01:03:19.674 --> 01:03:21.615 who, either have been diagnosed  
NOTE Confidence: 0.98999023

01:03:21.674 --> 01:03:22.875 with a cancer at a  
NOTE Confidence: 0.98999023

01:03:22.875 --> 01:03:23.694 young age,  
NOTE Confidence: 0.99323064

01:03:24.395 --> 01:03:25.755 and also thinking about what  
NOTE Confidence: 0.99323064

01:03:25.755 --> 01:03:27.115 supports are needed for these  
NOTE Confidence: 0.99323064

01:03:27.115 --> 01:03:27.615 patients,  
NOTE Confidence: 0.99609375

01:03:27.994 --> 01:03:29.694 for their families, caregivers,  
NOTE Confidence: 0.96451086

01:03:30.474 --> 01:03:32.154 and how we can bring  
NOTE Confidence: 0.96451086

01:03:32.154 --> 01:03:34.720 information such as tonight's Smilo  
NOTE Confidence: 0.96451086

01:03:34.720 --> 01:03:35.220 shares,  
NOTE Confidence: 0.9918768

01:03:35.840 --> 01:03:37.200 to the public and to

NOTE Confidence: 0.9918768  
01:03:37.200 --> 01:03:38.400 our patients and to our  
NOTE Confidence: 0.9918768  
01:03:38.400 --> 01:03:38.900 communities  
NOTE Confidence: 0.97405136  
01:03:39.440 --> 01:03:40.560 to really help bring this  
NOTE Confidence: 0.97405136  
01:03:40.560 --> 01:03:41.300 into awareness  
NOTE Confidence: 0.9864502  
01:03:41.600 --> 01:03:42.720 and really put as much  
NOTE Confidence: 0.9864502  
01:03:42.720 --> 01:03:44.080 information in your hands as  
NOTE Confidence: 0.9864502  
01:03:44.080 --> 01:03:45.780 we possibly can. So,  
NOTE Confidence: 0.93688965  
01:03:46.955 --> 01:03:47.775 I am,  
NOTE Confidence: 0.9228249  
01:03:48.155 --> 01:03:50.315 really, excited to co lead  
NOTE Confidence: 0.9228249  
01:03:50.315 --> 01:03:51.755 this program with doctor Nancy  
NOTE Confidence: 0.9228249  
01:03:51.755 --> 01:03:52.255 Borstelmann.  
NOTE Confidence: 0.998291  
01:03:52.635 --> 01:03:54.095 We have a terrific team,  
NOTE Confidence: 0.9593506  
01:03:54.395 --> 01:03:55.135 that is,  
NOTE Confidence: 0.9904785  
01:03:55.755 --> 01:03:56.875 we all work together to  
NOTE Confidence: 0.9904785  
01:03:56.875 --> 01:03:57.835 think about the needs of  
NOTE Confidence: 0.9904785

01:03:57.835 --> 01:03:59.295 these patients from a clinical  
NOTE Confidence: 0.9904785

01:03:59.435 --> 01:03:59.935 standpoint.  
NOTE Confidence: 0.99131554

01:04:00.470 --> 01:04:01.430 How can we do more  
NOTE Confidence: 0.99131554

01:04:01.430 --> 01:04:03.130 research to gain more insights  
NOTE Confidence: 0.99131554

01:04:03.190 --> 01:04:04.569 about early onset cancers?  
NOTE Confidence: 0.99697876

01:04:05.750 --> 01:04:06.869 How can we support our  
NOTE Confidence: 0.99697876

01:04:06.869 --> 01:04:08.170 patients and families,  
NOTE Confidence: 0.96500653

01:04:09.109 --> 01:04:10.010 in a very,  
NOTE Confidence: 0.9123535

01:04:10.549 --> 01:04:12.470 well rounded holistic way and,  
NOTE Confidence: 0.9123535

01:04:12.470 --> 01:04:13.769 again, from an educational  
NOTE Confidence: 0.9803414

01:04:14.595 --> 01:04:16.195 perspective. This is the QR  
NOTE Confidence: 0.9803414

01:04:16.195 --> 01:04:17.235 code that's here on the  
NOTE Confidence: 0.9803414

01:04:17.235 --> 01:04:18.994 screen, regarding the early onset  
NOTE Confidence: 0.9803414

01:04:18.994 --> 01:04:20.195 program if you'd like to  
NOTE Confidence: 0.9803414

01:04:20.195 --> 01:04:21.015 check it out.  
NOTE Confidence: 0.98016715

01:04:21.555 --> 01:04:22.835 And there's lots and lots

NOTE Confidence: 0.98016715  
01:04:22.835 --> 01:04:24.595 of resources online, from our  
NOTE Confidence: 0.98016715  
01:04:24.595 --> 01:04:26.275 program and that we're continuing  
NOTE Confidence: 0.98016715  
01:04:26.275 --> 01:04:27.015 to develop.  
NOTE Confidence: 0.9795898  
01:04:27.470 --> 01:04:28.349 This is our first in  
NOTE Confidence: 0.9795898  
01:04:28.349 --> 01:04:30.049 a series of Smilo shares  
NOTE Confidence: 0.9931127  
01:04:30.349 --> 01:04:31.710 for the early onset program,  
NOTE Confidence: 0.9931127  
01:04:31.710 --> 01:04:32.930 and we will be having  
NOTE Confidence: 0.9931127  
01:04:32.990 --> 01:04:34.589 Smilo shares later this year  
NOTE Confidence: 0.9931127  
01:04:34.589 --> 01:04:36.609 focused on fertility preservation  
NOTE Confidence: 0.9972479  
01:04:36.990 --> 01:04:38.589 for individuals who have had  
NOTE Confidence: 0.9972479  
01:04:38.589 --> 01:04:40.029 a diagnosis of early onset  
NOTE Confidence: 0.9972479  
01:04:40.029 --> 01:04:40.529 cancer  
NOTE Confidence: 0.9411621  
01:04:40.910 --> 01:04:41.390 and,  
NOTE Confidence: 0.96698  
01:04:41.789 --> 01:04:43.089 thinking about, you know,  
NOTE Confidence: 0.971639  
01:04:43.445 --> 01:04:44.905 preserving fertility and childbearing.  
NOTE Confidence: 0.9565324

01:04:45.845 --> 01:04:47.365 And then another Smilo shares  
NOTE Confidence: 0.9565324

01:04:47.365 --> 01:04:49.045 focused on what are the  
NOTE Confidence: 0.9565324

01:04:49.045 --> 01:04:50.565 support services and ways that  
NOTE Confidence: 0.9565324

01:04:50.565 --> 01:04:51.925 we can help our patients  
NOTE Confidence: 0.9565324

01:04:51.925 --> 01:04:53.705 and families from that psychosocial  
NOTE Confidence: 0.9565324

01:04:54.005 --> 01:04:54.905 support standpoint  
NOTE Confidence: 0.9626465

01:04:55.205 --> 01:04:56.185 as well. So,  
NOTE Confidence: 0.98986816

01:04:57.119 --> 01:04:57.839 please take a look at  
NOTE Confidence: 0.98986816

01:04:57.839 --> 01:04:58.880 our website, and,  
NOTE Confidence: 0.9996338

01:04:59.440 --> 01:05:00.400 we'd love to hear from  
NOTE Confidence: 0.9996338

01:05:00.400 --> 01:05:01.299 you as well.  
NOTE Confidence: 0.9647624

01:05:02.400 --> 01:05:03.760 And then, the,  
NOTE Confidence: 0.94350404

01:05:04.079 --> 01:05:06.180 cancer genetics and prevention program  
NOTE Confidence: 0.94350404

01:05:06.400 --> 01:05:08.020 at Yale and Smilow  
NOTE Confidence: 0.78686523

01:05:08.559 --> 01:05:09.059 is,  
NOTE Confidence: 0.9527588

01:05:10.005 --> 01:05:12.005 just a a very, amazing

NOTE Confidence: 0.9527588  
01:05:12.005 --> 01:05:13.464 team of experts,  
NOTE Confidence: 0.9805664  
01:05:14.244 --> 01:05:16.644 that includes physicians, that includes,  
NOTE Confidence: 0.9854492  
01:05:16.964 --> 01:05:19.144 genetic counselors and genetics coordinators,  
NOTE Confidence: 0.9978841  
01:05:20.005 --> 01:05:21.385 advanced practice providers.  
NOTE Confidence: 0.9817418  
01:05:21.765 --> 01:05:23.140 We see patients across the  
NOTE Confidence: 0.9817418  
01:05:23.140 --> 01:05:24.820 state of Connecticut at various  
NOTE Confidence: 0.9817418  
01:05:24.820 --> 01:05:26.680 care delivery network sites.  
NOTE Confidence: 0.99121094  
01:05:27.700 --> 01:05:28.200 And  
NOTE Confidence: 0.970988  
01:05:28.500 --> 01:05:30.100 it's it really has been,  
NOTE Confidence: 0.970988  
01:05:30.420 --> 01:05:32.020 important to think about bringing  
NOTE Confidence: 0.970988  
01:05:32.020 --> 01:05:34.100 this aspect of of risk  
NOTE Confidence: 0.970988  
01:05:34.100 --> 01:05:35.080 and risk assessment,  
NOTE Confidence: 0.9790039  
01:05:35.934 --> 01:05:37.714 family history, and genetic testing  
NOTE Confidence: 0.99332684  
01:05:38.015 --> 01:05:39.075 into this conversation  
NOTE Confidence: 0.97441405  
01:05:39.454 --> 01:05:40.895 about who should be screened  
NOTE Confidence: 0.97441405

01:05:40.895 --> 01:05:42.414 for early onset cancers and  
NOTE Confidence: 0.97441405

01:05:42.414 --> 01:05:43.615 how do you know that,  
NOTE Confidence: 0.9995117

01:05:44.414 --> 01:05:45.795 that a particular individual  
NOTE Confidence: 0.98254395

01:05:46.255 --> 01:05:47.694 really should consider that. And  
NOTE Confidence: 0.98254395

01:05:47.694 --> 01:05:48.194 so,  
NOTE Confidence: 0.9864909

01:05:48.890 --> 01:05:50.250 we have the information here  
NOTE Confidence: 0.9864909

01:05:50.250 --> 01:05:51.850 for the cancer genetics and  
NOTE Confidence: 0.9864909

01:05:51.850 --> 01:05:53.610 prevention program as well, with  
NOTE Confidence: 0.9864909

01:05:53.610 --> 01:05:54.670 the QR code,  
NOTE Confidence: 1

01:05:55.290 --> 01:05:56.270 and the website  
NOTE Confidence: 0.9331258

01:05:56.570 --> 01:05:57.370 as well as a phone  
NOTE Confidence: 0.9331258

01:05:57.370 --> 01:05:58.970 number. So anyone that had  
NOTE Confidence: 0.9331258

01:05:58.970 --> 01:06:00.190 questions about,  
NOTE Confidence: 0.99031067

01:06:00.995 --> 01:06:02.915 their own personal medical history,  
NOTE Confidence: 0.99031067

01:06:02.915 --> 01:06:04.115 their family history as you've  
NOTE Confidence: 0.99031067

01:06:04.115 --> 01:06:05.715 been hearing this information today,

NOTE Confidence: 0.99031067  
01:06:05.715 --> 01:06:06.675 please do go ahead and  
NOTE Confidence: 0.99031067  
01:06:06.675 --> 01:06:07.555 reach out to us. We'd  
NOTE Confidence: 0.99031067  
01:06:07.555 --> 01:06:08.435 love to hear from you  
NOTE Confidence: 0.99031067  
01:06:08.435 --> 01:06:09.095 as well.  
NOTE Confidence: 0.93167317  
01:06:10.435 --> 01:06:12.135 So this concludes our SmiloShares  
NOTE Confidence: 0.9421387  
01:06:12.435 --> 01:06:14.615 event for this evening, and,  
NOTE Confidence: 0.86775714  
01:06:15.039 --> 01:06:16.160 this, in this,  
NOTE Confidence: 0.99902344  
01:06:16.640 --> 01:06:18.260 recording will actually be available  
NOTE Confidence: 0.9836426  
01:06:18.640 --> 01:06:20.660 online as well. And so  
NOTE Confidence: 0.9836426  
01:06:20.880 --> 01:06:21.619 you can,  
NOTE Confidence: 0.9775146  
01:06:22.319 --> 01:06:24.000 show this to your your  
NOTE Confidence: 0.9775146  
01:06:24.000 --> 01:06:26.019 friends, your families, your networks.  
NOTE Confidence: 0.999442  
01:06:26.720 --> 01:06:28.019 As much as we can  
NOTE Confidence: 0.999442  
01:06:28.155 --> 01:06:29.435 put this information in the  
NOTE Confidence: 0.999442  
01:06:29.435 --> 01:06:30.655 hands of our communities,  
NOTE Confidence: 0.9927734

01:06:31.355 --> 01:06:32.235 it is really to their  
NOTE Confidence: 0.9927734

01:06:32.235 --> 01:06:33.915 benefit. And I think some,  
NOTE Confidence: 0.9550781

01:06:34.475 --> 01:06:36.155 parting words, I would say,  
NOTE Confidence: 0.9550781

01:06:36.155 --> 01:06:37.135 know your body,  
NOTE Confidence: 0.98732686

01:06:37.515 --> 01:06:39.275 know your risk, and know  
NOTE Confidence: 0.98732686

01:06:39.275 --> 01:06:40.575 if you should get screened  
NOTE Confidence: 0.98732686

01:06:40.635 --> 01:06:41.135 because  
NOTE Confidence: 0.9689399

01:06:41.550 --> 01:06:43.070 knowledge really is power, and  
NOTE Confidence: 0.9689399

01:06:43.070 --> 01:06:44.370 we really wanna empower,  
NOTE Confidence: 0.99076706

01:06:45.470 --> 01:06:47.150 all of us to to  
NOTE Confidence: 0.99076706

01:06:47.150 --> 01:06:48.510 really think about our health  
NOTE Confidence: 0.99076706

01:06:48.510 --> 01:06:49.010 and,  
NOTE Confidence: 0.95302737

01:06:49.710 --> 01:06:50.670 feel that you can that  
NOTE Confidence: 0.95302737

01:06:50.670 --> 01:06:51.950 you are supported and that  
NOTE Confidence: 0.95302737

01:06:51.950 --> 01:06:53.650 we advocate for you. So  
NOTE Confidence: 0.95302737

01:06:53.710 --> 01:06:55.330 thank you again, and everyone

NOTE Confidence: 0.95302737

01:06:55.390 --> 01:06:56.770 have a very good evening.

NOTE Confidence: 0.9951172

01:06:57.193 --> 01:06:57.693 Thank

NOTE Confidence: 0.9802246

01:06:58.026 --> 01:06:58.526 you.