

WEBVTT

NOTE duration:"01:26:59.8400000"

NOTE language:en-us

NOTE Confidence: 0.8006452

00:00:00.000 --> 00:00:03.573 Join in so I'll start on a screen share.

NOTE Confidence: 0.85339105

00:00:08.050 --> 00:00:10.500 Alright, so it is my pleasure to

NOTE Confidence: 0.85339105

00:00:10.500 --> 00:00:12.745 help moderate this smilow shares

NOTE Confidence: 0.85339105

00:00:12.745 --> 00:00:14.989 special Greenwich Addition tonight.

NOTE Confidence: 0.85339105

00:00:14.990 --> 00:00:17.430 Understanding colorectal cancer were doing

NOTE Confidence: 0.85339105

00:00:17.430 --> 00:00:19.870 this during colorectal Cancer Awareness

NOTE Confidence: 0.85339105

00:00:19.937 --> 00:00:22.223 Month and we have really wonderful

NOTE Confidence: 0.85339105

00:00:22.223 --> 00:00:24.110 representation from the whole team.

NOTE Confidence: 0.85339105

00:00:24.110 --> 00:00:26.708 My name is Doctor Pamela Kunze.

NOTE Confidence: 0.85339105

00:00:26.710 --> 00:00:29.620 I'm an associate professor of medicine

NOTE Confidence: 0.85339105

00:00:29.620 --> 00:00:32.381 and medical oncology and I practice

NOTE Confidence: 0.85339105

00:00:32.381 --> 00:00:34.957 at the main campus in New Haven.

NOTE Confidence: 0.85339105

00:00:34.960 --> 00:00:38.536 I am the new director for the Center.

NOTE Confidence: 0.85339105

00:00:38.540 --> 00:00:40.725 Sure of gastrointestinal cancers and

NOTE Confidence: 0.85339105

00:00:40.725 --> 00:00:42.910 arrived mid pandemic last summer.

NOTE Confidence: 0.85339105

00:00:42.910 --> 00:00:45.367 I I am joined by Doctor Shabeer

NOTE Confidence: 0.85339105

00:00:45.367 --> 00:00:47.992 your who's a professor of medicine

NOTE Confidence: 0.85339105

00:00:47.992 --> 00:00:50.962 and gastro enterology he is the

NOTE Confidence: 0.85339105

00:00:50.962 --> 00:00:53.331 director of screening and prevention

NOTE Confidence: 0.85339105

00:00:53.331 --> 00:00:56.013 and like leader of our newly

NOTE Confidence: 0.85339105

00:00:56.020 --> 00:00:58.020 formed Colorectal Cancer program,

NOTE Confidence: 0.85339105

00:00:58.020 --> 00:01:00.520 he'll be speaking about colorectal

NOTE Confidence: 0.85339105

00:01:00.520 --> 00:01:02.760 cancer screening and prevention.

NOTE Confidence: 0.85339105

00:01:02.760 --> 00:01:04.200 Also Doctor Peter Mcwhorter,

NOTE Confidence: 0.85339105

00:01:04.200 --> 00:01:05.640 who's a colorectal surgeon

NOTE Confidence: 0.85339105

00:01:05.640 --> 00:01:06.900 at Greenwich Hospital.

NOTE Confidence: 0.85339105

00:01:06.900 --> 00:01:09.174 He'll be speaking about surgical treatment

NOTE Confidence: 0.85339105

00:01:09.174 --> 00:01:12.157 of colon and rectal cancer Doctor Sung Lee,

NOTE Confidence: 0.85339105

00:01:12.160 --> 00:01:14.035 an assistant professor of clinical

NOTE Confidence: 0.85339105

00:01:14.035 --> 00:01:15.535 medicine and medical oncology,  
NOTE Confidence: 0.85339105

00:01:15.540 --> 00:01:17.275 and the interim medical director  
NOTE Confidence: 0.85339105

00:01:17.275 --> 00:01:19.680 of Smilow Care Center in Greenwich.  
NOTE Confidence: 0.85339105

00:01:19.680 --> 00:01:21.920 And he'll be talking about the treatment  
NOTE Confidence: 0.85339105

00:01:21.920 --> 00:01:23.713 before and after surgery called  
NOTE Confidence: 0.85339105

00:01:23.713 --> 00:01:25.648 neoadjuvant in adamant treatment and  
NOTE Confidence: 0.85339105

00:01:25.648 --> 00:01:28.108 Doctor Barry Boyd and Assistant Professor  
NOTE Confidence: 0.85339105

00:01:28.108 --> 00:01:30.580 of Clinical medicine and medical oncology.  
NOTE Confidence: 0.85339105

00:01:30.580 --> 00:01:32.460 Also practicing at the Smilow  
NOTE Confidence: 0.85339105

00:01:32.460 --> 00:01:33.964 Care Center in Greenwich,  
NOTE Confidence: 0.85339105

00:01:33.970 --> 00:01:36.825 and he'll be talking about  
NOTE Confidence: 0.85339105

00:01:36.825 --> 00:01:39.109 treatment for metastatic disease.  
NOTE Confidence: 0.85339105

00:01:39.110 --> 00:01:41.168 So just with a few brief  
NOTE Confidence: 0.85339105

00:01:41.168 --> 00:01:43.260 comments to get us started,  
NOTE Confidence: 0.85339105

00:01:43.260 --> 00:01:45.462 colorectal cancer is the third leading  
NOTE Confidence: 0.85339105

00:01:45.462 --> 00:01:48.160 cause of cancer in the United States,

NOTE Confidence: 0.85339105

00:01:48.160 --> 00:01:50.040 among both men and women.

NOTE Confidence: 0.85339105

00:01:50.040 --> 00:01:52.679 And you can see the stars here,

NOTE Confidence: 0.85339105

00:01:52.680 --> 00:01:55.648 and it is also the third leading cause

NOTE Confidence: 0.85339105

00:01:55.648 --> 00:01:58.706 of cancer deaths in both men and women.

NOTE Confidence: 0.85339105

00:01:58.710 --> 00:02:01.300 But the good news is that it's

NOTE Confidence: 0.85339105

00:02:01.300 --> 00:02:03.618 preventable and we'll talk about that.

NOTE Confidence: 0.85339105

00:02:03.620 --> 00:02:07.067 Colon cancer has been in the news quite a

NOTE Confidence: 0.85339105

00:02:07.067 --> 00:02:10.773 bit over the course of the last 12 months.

NOTE Confidence: 0.85339105

00:02:10.780 --> 00:02:13.090 And there was the untimely death

NOTE Confidence: 0.85339105

00:02:13.090 --> 00:02:15.070 of the Black Panther star.

NOTE Confidence: 0.85339105

00:02:15.070 --> 00:02:18.647 Chadwick Boseman at the age of 43.

NOTE Confidence: 0.85339105

00:02:18.650 --> 00:02:20.876 And then also in the fall we

NOTE Confidence: 0.85339105

00:02:20.876 --> 00:02:22.730 saw in the headlines.

NOTE Confidence: 0.85339105

00:02:22.730 --> 00:02:24.254 Colon cancer screening should

NOTE Confidence: 0.85339105

00:02:24.254 --> 00:02:26.810 start earlier at the age of 45.

NOTE Confidence: 0.85339105

00:02:26.810 --> 00:02:29.394 This was on the basis of a new  
NOTE Confidence: 0.85339105

00:02:29.394 --> 00:02:31.298 recommendation from the United States  
NOTE Confidence: 0.85339105

00:02:31.298 --> 00:02:33.668 Preventive Services Task Force that the  
NOTE Confidence: 0.85339105

00:02:33.668 --> 00:02:36.456 age should get lowered for average risk.  
NOTE Confidence: 0.85339105

00:02:36.460 --> 00:02:38.260 Individuals and doctor will go  
NOTE Confidence: 0.85339105

00:02:38.260 --> 00:02:40.540 into that a little bit later.  
NOTE Confidence: 0.85339105

00:02:40.540 --> 00:02:43.879 So with that I am going to stop Sharon,  
NOTE Confidence: 0.85339105

00:02:43.880 --> 00:02:47.219 I'm going to pass the baton to doctor your.  
NOTE Confidence: 0.80723417

00:02:56.520 --> 00:02:59.448 Thank you very much like our kids.  
NOTE Confidence: 0.80723417

00:02:59.450 --> 00:03:02.666 It's a real pleasure to be here with  
NOTE Confidence: 0.80723417

00:03:02.666 --> 00:03:04.898 this wonderful panel of experts,  
NOTE Confidence: 0.80723417

00:03:04.900 --> 00:03:07.510 so I'll try to give you my two cents  
NOTE Confidence: 0.80723417

00:03:07.510 --> 00:03:10.746 on on the very summarized way about  
NOTE Confidence: 0.80723417

00:03:10.746 --> 00:03:13.241 preventive measures for correct cancer  
NOTE Confidence: 0.80723417

00:03:13.241 --> 00:03:15.786 and screening approaches for that.  
NOTE Confidence: 0.84746766

00:03:20.320 --> 00:03:23.434 So taking a global view which is always

NOTE Confidence: 0.84746766

00:03:23.434 --> 00:03:27.046 helpful if we look at this map of the world,

NOTE Confidence: 0.84746766

00:03:27.050 --> 00:03:29.426 we see these incidence of colorectal

NOTE Confidence: 0.84746766

00:03:29.426 --> 00:03:32.410 cancer in 2018 and we read it goes

NOTE Confidence: 0.84746766

00:03:32.410 --> 00:03:34.396 from the very light areas like

NOTE Confidence: 0.84746766

00:03:34.474 --> 00:03:36.778 blue areas to the darkest areas,

NOTE Confidence: 0.84746766

00:03:36.780 --> 00:03:39.083 which are the ones that have the

NOTE Confidence: 0.84746766

00:03:39.083 --> 00:03:41.260 highest incidence of colorectal cancer.

NOTE Confidence: 0.84746766

00:03:41.260 --> 00:03:44.086 And as you can see there are huge differences

NOTE Confidence: 0.84746766

00:03:44.086 --> 00:03:46.497 in the incidence that's expressed.

NOTE Confidence: 0.84746766

00:03:46.500 --> 00:03:49.188 It's a common way to express it.

NOTE Confidence: 0.84746766

00:03:49.190 --> 00:03:51.350 Per 100,000 individuals and it's

NOTE Confidence: 0.84746766

00:03:51.350 --> 00:03:54.576 from less than 6.2 to more than

NOTE Confidence: 0.84746766

00:03:54.576 --> 00:03:56.548 27 per 100,000 individuals,

NOTE Confidence: 0.84746766

00:03:56.550 --> 00:03:59.136 that's a huge range difference between

NOTE Confidence: 0.84746766

00:03:59.136 --> 00:04:01.437 some areas with lower incidents

NOTE Confidence: 0.84746766

00:04:01.437 --> 00:04:03.910 like like Southeast Asia, Sub,  
NOTE Confidence: 0.84746766

00:04:03.910 --> 00:04:06.210 Saharian, Africa or other areas,  
NOTE Confidence: 0.84746766

00:04:06.210 --> 00:04:08.510 particularly in the more of  
NOTE Confidence: 0.84746766

00:04:08.510 --> 00:04:09.890 the richer worlds,  
NOTE Confidence: 0.84746766

00:04:09.890 --> 00:04:11.730 Western and Eastern Europe,  
NOTE Confidence: 0.84746766

00:04:11.730 --> 00:04:14.394 North America, Australia and New Zealand.  
NOTE Confidence: 0.84746766

00:04:14.394 --> 00:04:18.516 So the richer we get usually the higher the  
NOTE Confidence: 0.84746766

00:04:18.516 --> 00:04:21.841 incidence of these countries and many others,  
NOTE Confidence: 0.84746766

00:04:21.850 --> 00:04:22.275 unfortunately.  
NOTE Confidence: 0.84746766

00:04:22.275 --> 00:04:26.100 And that must have something to do with the  
NOTE Confidence: 0.84746766

00:04:26.179 --> 00:04:29.259 kind of things that go with being Richard.  
NOTE Confidence: 0.84746766

00:04:29.260 --> 00:04:31.378 It's important also to to point  
NOTE Confidence: 0.84746766

00:04:31.378 --> 00:04:34.189 out that there is good data showing  
NOTE Confidence: 0.84746766

00:04:34.189 --> 00:04:36.389 that people migrating from lower  
NOTE Confidence: 0.84746766

00:04:36.389 --> 00:04:38.860 risk areas to higher risk areas.  
NOTE Confidence: 0.84746766

00:04:38.860 --> 00:04:41.128 Pretty soon they get to the

NOTE Confidence: 0.84746766

00:04:41.128 --> 00:04:43.260 similar levels of the locals,

NOTE Confidence: 0.84746766

00:04:43.260 --> 00:04:45.380 meaning that that changing environment

NOTE Confidence: 0.84746766

00:04:45.380 --> 00:04:47.921 really plays a very important role

NOTE Confidence: 0.84746766

00:04:47.921 --> 00:04:50.057 in terms of colorectal cancer risk.

NOTE Confidence: 0.84746766

00:04:50.060 --> 00:04:52.568 We've known also some factors for.

NOTE Confidence: 0.84746766

00:04:52.570 --> 00:04:55.746 For awhile and some of them quite confirm.

NOTE Confidence: 0.84746766

00:04:55.750 --> 00:04:57.730 For instance, heavy alcohol intake.

NOTE Confidence: 0.84746766

00:04:57.730 --> 00:05:00.509 That's the result in an increased risk.

NOTE Confidence: 0.84746766

00:05:00.510 --> 00:05:03.289 This is expressed here as relative risk,

NOTE Confidence: 0.84746766

00:05:03.290 --> 00:05:05.666 so one meaning no increased risk.

NOTE Confidence: 0.84746766

00:05:05.670 --> 00:05:07.258 Everything that's above one

NOTE Confidence: 0.84746766

00:05:07.258 --> 00:05:08.846 would be increased risk.

NOTE Confidence: 0.84746766

00:05:08.850 --> 00:05:11.650 Everything that's below one is lower

NOTE Confidence: 0.84746766

00:05:11.650 --> 00:05:14.239 rates there for preventive effect.

NOTE Confidence: 0.84746766

00:05:14.240 --> 00:05:17.336 And again, as we went one further up,

NOTE Confidence: 0.84746766



00:05:17.340 --> 00:05:18.498 sorry about that.  
NOTE Confidence: 0.84746766

00:05:18.498 --> 00:05:20.814 And as we can see here,  
NOTE Confidence: 0.84746766

00:05:20.820 --> 00:05:22.750 alcohol is associated with that.  
NOTE Confidence: 0.84746766

00:05:22.750 --> 00:05:23.272 Also,  
NOTE Confidence: 0.84746766

00:05:23.272 --> 00:05:26.926 obesity is associated with an increased risk.  
NOTE Confidence: 0.84746766

00:05:26.930 --> 00:05:29.856 Also an increased risk for red meat  
NOTE Confidence: 0.84746766

00:05:29.856 --> 00:05:32.225 and consumption of processed meat  
NOTE Confidence: 0.84746766

00:05:32.225 --> 00:05:34.815 and very important Association with  
NOTE Confidence: 0.84746766

00:05:34.815 --> 00:05:37.753 smoking and even former smokers do  
NOTE Confidence: 0.84746766

00:05:37.753 --> 00:05:40.784 still have carry a high risk daughter.  
NOTE Confidence: 0.84746766

00:05:40.790 --> 00:05:44.582 Risk does go down so there are some  
NOTE Confidence: 0.84746766

00:05:44.582 --> 00:05:47.382 environmental habits and and and aspects  
NOTE Confidence: 0.84746766

00:05:47.382 --> 00:05:50.022 that really can modify our risk.  
NOTE Confidence: 0.84746766

00:05:50.030 --> 00:05:51.874 Others like physical activity  
NOTE Confidence: 0.84746766

00:05:51.874 --> 00:05:53.257 or dairy products,  
NOTE Confidence: 0.84746766

00:05:53.260 --> 00:05:54.697 particularly physical activity.

NOTE Confidence: 0.84746766

00:05:54.697 --> 00:05:56.613 That's been very consistently

NOTE Confidence: 0.84746766

00:05:56.613 --> 00:05:58.480 associated with a lower.

NOTE Confidence: 0.84746766

00:05:58.480 --> 00:06:01.250 At risk so so a lot to be said about

NOTE Confidence: 0.84746766

00:06:01.332 --> 00:06:03.364 environmental factors that probably

NOTE Confidence: 0.84746766

00:06:03.364 --> 00:06:06.412 still don't have a good sense.

NOTE Confidence: 0.84746766

00:06:06.420 --> 00:06:09.220 And what other types of factors are

NOTE Confidence: 0.84746766

00:06:09.220 --> 00:06:11.980 playing a big role in this case?

NOTE Confidence: 0.84746766

00:06:11.980 --> 00:06:14.367 We've also known for a long time

NOTE Confidence: 0.84746766

00:06:14.367 --> 00:06:15.976 that there's familial clustering

NOTE Confidence: 0.84746766

00:06:15.976 --> 00:06:17.539 in corrective cancers,

NOTE Confidence: 0.84746766

00:06:17.540 --> 00:06:20.655 meaning that some families tend to have

NOTE Confidence: 0.84746766

00:06:20.655 --> 00:06:23.319 different relatives with colorectal cancer.

NOTE Confidence: 0.84746766

00:06:23.320 --> 00:06:24.298 Not wonder more.

NOTE Confidence: 0.84746766

00:06:24.298 --> 00:06:26.254 And as we can see here,

NOTE Confidence: 0.84746766

00:06:26.260 --> 00:06:27.156 for instance,

NOTE Confidence: 0.84746766

00:06:27.156 --> 00:06:27.604 having.  
NOTE Confidence: 0.84746766

00:06:27.604 --> 00:06:29.844 Just one more first degree  
NOTE Confidence: 0.84746766

00:06:29.844 --> 00:06:32.260 relative that would mean siblings,  
NOTE Confidence: 0.84746766

00:06:32.260 --> 00:06:32.708 parents,  
NOTE Confidence: 0.84746766

00:06:32.708 --> 00:06:33.156 sons,  
NOTE Confidence: 0.84746766

00:06:33.156 --> 00:06:34.948 daughters that would increase  
NOTE Confidence: 0.84746766

00:06:34.948 --> 00:06:37.110 the risk quite a bit.  
NOTE Confidence: 0.84746766

00:06:37.110 --> 00:06:39.200 2.2 very significant having one  
NOTE Confidence: 0.84746766

00:06:39.200 --> 00:06:41.835 or more first of your relatives  
NOTE Confidence: 0.84746766

00:06:41.835 --> 00:06:44.607 diagnosed before the age of 50.  
NOTE Confidence: 0.84746766

00:06:44.610 --> 00:06:47.697 Stealing it increases the risk even higher,  
NOTE Confidence: 0.84746766

00:06:47.700 --> 00:06:49.740 and having two more first  
NOTE Confidence: 0.84746766

00:06:49.740 --> 00:06:51.780 degree relatives tax even a  
NOTE Confidence: 0.8360674

00:06:51.857 --> 00:06:53.741 higher increase in the  
NOTE Confidence: 0.8360674

00:06:53.741 --> 00:06:55.625 risk of colorectal cancer.  
NOTE Confidence: 0.8360674

00:06:55.630 --> 00:06:57.900 That on the other hand.

NOTE Confidence: 0.8360674

00:06:57.900 --> 00:07:01.204 Even having a one more second degree

NOTE Confidence: 0.8360674

00:07:01.204 --> 00:07:04.773 relative or having a a one or more

NOTE Confidence: 0.8360674

00:07:04.773 --> 00:07:07.390 first degree relatives with what we

NOTE Confidence: 0.8360674

00:07:07.390 --> 00:07:11.098 call an advanced polyp like Canada, no ma'am.

NOTE Confidence: 0.8360674

00:07:11.098 --> 00:07:13.368 Not a cancerous polyp yet,

NOTE Confidence: 0.8360674

00:07:13.370 --> 00:07:17.010 but a what we often call premalignant polyp.

NOTE Confidence: 0.8360674

00:07:17.010 --> 00:07:20.040 That also increases the risk and

NOTE Confidence: 0.8360674

00:07:20.040 --> 00:07:22.060 that's why recommendations for

NOTE Confidence: 0.8360674

00:07:22.144 --> 00:07:24.982 individuals who have for family members

NOTE Confidence: 0.8360674

00:07:24.982 --> 00:07:27.920 who have a relative who has had.

NOTE Confidence: 0.8360674

00:07:27.920 --> 00:07:29.376 Call it like that.

NOTE Confidence: 0.8360674

00:07:29.376 --> 00:07:31.196 Get also enhanced screening too,

NOTE Confidence: 0.8360674

00:07:31.200 --> 00:07:33.734 so that's those are all important factors.

NOTE Confidence: 0.8360674

00:07:33.740 --> 00:07:34.416 And again,

NOTE Confidence: 0.8360674

00:07:34.416 --> 00:07:36.782 what they really speak for is that

NOTE Confidence: 0.8360674

00:07:36.782 --> 00:07:39.049 there is that classroom means that  
NOTE Confidence: 0.8360674

00:07:39.049 --> 00:07:41.350 there are some factors that seem  
NOTE Confidence: 0.8360674

00:07:41.350 --> 00:07:43.570 to be shared among family members,  
NOTE Confidence: 0.8360674

00:07:43.570 --> 00:07:46.118 and that's why you see those clusters.  
NOTE Confidence: 0.8360674

00:07:46.120 --> 00:07:48.300 And those factors really are  
NOTE Confidence: 0.8360674

00:07:48.300 --> 00:07:50.044 the result of important.  
NOTE Confidence: 0.8360674

00:07:50.050 --> 00:07:51.666 At once like lifestyle,  
NOTE Confidence: 0.8360674

00:07:51.666 --> 00:07:53.686 we talked about environment Dyett,  
NOTE Confidence: 0.8360674

00:07:53.690 --> 00:07:56.108 Andy genetic background and really did.  
NOTE Confidence: 0.8360674

00:07:56.110 --> 00:07:58.672 Some of these have a higher weight  
NOTE Confidence: 0.8360674

00:07:58.672 --> 00:08:01.556 in some cases and others and genetic  
NOTE Confidence: 0.8360674

00:08:01.556 --> 00:08:04.600 defect will have a higher weighed in  
NOTE Confidence: 0.8360674

00:08:04.600 --> 00:08:07.018 what we call the cancer syndromes.  
NOTE Confidence: 0.8360674

00:08:07.020 --> 00:08:09.282 The ones that were there is  
NOTE Confidence: 0.8360674

00:08:09.282 --> 00:08:11.460 a mutation in the family.  
NOTE Confidence: 0.8360674

00:08:11.460 --> 00:08:13.056 There's a significantly higher

NOTE Confidence: 0.8360674

00:08:13.056 --> 00:08:15.450 risk of cancer and that's the

NOTE Confidence: 0.8360674

00:08:15.522 --> 00:08:17.517 example that I'm showing here.

NOTE Confidence: 0.8360674

00:08:17.520 --> 00:08:20.058 Those are if this is the.

NOTE Confidence: 0.8360674

00:08:20.060 --> 00:08:22.517 Tired of all colorectal cancers and we

NOTE Confidence: 0.8360674

00:08:22.517 --> 00:08:25.801 look at if they have any mutations of

NOTE Confidence: 0.8360674

00:08:25.801 --> 00:08:28.750 those that cause inherited cancer syndromes.

NOTE Confidence: 0.8360674

00:08:28.750 --> 00:08:30.820 If we take anyone with

NOTE Confidence: 0.8360674

00:08:30.820 --> 00:08:32.890 colorectal cancer older than 50,

NOTE Confidence: 0.8360674

00:08:32.890 --> 00:08:34.960 was it about 5% five?

NOTE Confidence: 0.8360674

00:08:34.960 --> 00:08:37.468 8% will have an inherited predisposition

NOTE Confidence: 0.8360674

00:08:37.468 --> 00:08:39.520 most common while lynching room.

NOTE Confidence: 0.8360674

00:08:39.520 --> 00:08:42.243 But if we take younger people in

NOTE Confidence: 0.8360674

00:08:42.243 --> 00:08:45.690 this case right here in the middle of

NOTE Confidence: 0.8360674

00:08:45.690 --> 00:08:48.210 all individuals are younger than 50,

NOTE Confidence: 0.8360674

00:08:48.210 --> 00:08:50.390 you would see that the.

NOTE Confidence: 0.8360674

00:08:50.390 --> 00:08:53.186 Percentage of those having a inherited  
NOTE Confidence: 0.8360674

00:08:53.186 --> 00:08:56.310 cancer syndrome would go up close to 20%,  
NOTE Confidence: 0.8360674

00:08:56.310 --> 00:08:59.894 and if we only look at individuals who  
NOTE Confidence: 0.8360674

00:08:59.894 --> 00:09:03.076 were diagnosed at an age younger than 35,  
NOTE Confidence: 0.8360674

00:09:03.080 --> 00:09:06.248 that will go up to about a third  
NOTE Confidence: 0.8360674

00:09:06.248 --> 00:09:08.160 of all the cases.  
NOTE Confidence: 0.8360674

00:09:08.160 --> 00:09:10.644 So that's why family history and  
NOTE Confidence: 0.8360674

00:09:10.644 --> 00:09:13.230 determining genetic defects is so important,  
NOTE Confidence: 0.8360674

00:09:13.230 --> 00:09:15.350 particularly with the younger individuals,  
NOTE Confidence: 0.8360674

00:09:15.350 --> 00:09:18.017 because they do have the highest risk  
NOTE Confidence: 0.8360674

00:09:18.017 --> 00:09:20.848 of being due to inherited defects.  
NOTE Confidence: 0.8817059

00:09:24.890 --> 00:09:27.474 And but the good news of the story  
NOTE Confidence: 0.8817059

00:09:27.474 --> 00:09:30.173 that I wanted to share with you  
NOTE Confidence: 0.8817059

00:09:30.173 --> 00:09:32.620 is what I'm showing right here.  
NOTE Confidence: 0.8817059

00:09:32.620 --> 00:09:35.189 This is the graph that starts in  
NOTE Confidence: 0.8817059

00:09:35.189 --> 00:09:39.500 the 1930s up to 2017. And that's.

NOTE Confidence: 0.8817059

00:09:39.500 --> 00:09:41.530 Incidents again per 100,000 individuals

NOTE Confidence: 0.8817059

00:09:41.530 --> 00:09:45.055 and as we can see here both for males

NOTE Confidence: 0.8817059

00:09:45.055 --> 00:09:47.648 and females there since in mid 1980s

NOTE Confidence: 0.8817059

00:09:47.648 --> 00:09:49.952 a very steady and significant decline

NOTE Confidence: 0.8817059

00:09:49.952 --> 00:09:52.658 in in both the incidence of colorectal

NOTE Confidence: 0.8817059

00:09:52.658 --> 00:09:54.980 cancer and mortality of colorectal cancer.

NOTE Confidence: 0.8817059

00:09:54.980 --> 00:09:56.910 That's certainly a very that's

NOTE Confidence: 0.8817059

00:09:56.910 --> 00:09:58.454 been very encouraging news.

NOTE Confidence: 0.8817059

00:09:58.460 --> 00:10:00.072 The trend has come.

NOTE Confidence: 0.8817059

00:10:00.072 --> 00:10:02.490 Seen it going down and that's

NOTE Confidence: 0.8817059

00:10:02.575 --> 00:10:04.880 the very positive news here.

NOTE Confidence: 0.8817059

00:10:04.880 --> 00:10:09.360 The fact, in fact, this has this.

NOTE Confidence: 0.8817059

00:10:09.360 --> 00:10:10.650 Decrease from 2006,

NOTE Confidence: 0.8817059

00:10:10.650 --> 00:10:13.660 2000 to 2015 has been an average

NOTE Confidence: 0.8817059

00:10:13.751 --> 00:10:15.053 about 3.7% annually,

NOTE Confidence: 0.8817059



00:10:15.053 --> 00:10:17.891 so that means every year there's  
NOTE Confidence: 0.8817059

00:10:17.891 --> 00:10:20.670 been that close to 4% decrease in  
NOTE Confidence: 0.8817059

00:10:20.670 --> 00:10:22.845 this incident of colorectal cancer.  
NOTE Confidence: 0.8817059

00:10:22.850 --> 00:10:25.295 Quite remarkable numbers and that  
NOTE Confidence: 0.8817059

00:10:25.295 --> 00:10:28.565 decrease in incidents that we see here  
NOTE Confidence: 0.8817059

00:10:28.565 --> 00:10:31.541 in this line going down from year 2000,  
NOTE Confidence: 0.8817059

00:10:31.550 --> 00:10:33.776 no longer 2018 has really been  
NOTE Confidence: 0.8817059

00:10:33.776 --> 00:10:35.907 matched by this steady increase  
NOTE Confidence: 0.8817059

00:10:35.907 --> 00:10:37.638 in screening procedures,  
NOTE Confidence: 0.8817059

00:10:37.640 --> 00:10:39.900 and here we are showing.  
NOTE Confidence: 0.8817059

00:10:39.900 --> 00:10:42.075 Call a colonoscopies the more  
NOTE Confidence: 0.8817059

00:10:42.075 --> 00:10:43.815 colonoscopies we've been doing,  
NOTE Confidence: 0.8817059

00:10:43.820 --> 00:10:46.436 the lower incidence of colorectal cancer,  
NOTE Confidence: 0.8817059

00:10:46.440 --> 00:10:50.800 so it it must have something to do with that.  
NOTE Confidence: 0.8817059

00:10:50.800 --> 00:10:52.051 What we doing.  
NOTE Confidence: 0.8817059

00:10:52.051 --> 00:10:54.136 Removing polyps even though there

NOTE Confidence: 0.8817059

00:10:54.136 --> 00:10:56.838 are some other trends showing that

NOTE Confidence: 0.8817059

00:10:56.838 --> 00:10:59.520 other factors may have had literal,

NOTE Confidence: 0.8817059

00:10:59.520 --> 00:11:01.700 but the most important role,

NOTE Confidence: 0.8817059

00:11:01.700 --> 00:11:03.432 definitely is that generalization

NOTE Confidence: 0.8817059

00:11:03.432 --> 00:11:05.597 of screening of colorectal cancer

NOTE Confidence: 0.8817059

00:11:05.597 --> 00:11:07.815 screening that's made the incidence

NOTE Confidence: 0.8817059

00:11:07.815 --> 00:11:09.606 significantly lower, so now.

NOTE Confidence: 0.8817059

00:11:09.606 --> 00:11:12.384 Doctor Kincel was referring to the

NOTE Confidence: 0.8817059

00:11:12.384 --> 00:11:14.660 United United States Preventive

NOTE Confidence: 0.8817059

00:11:14.660 --> 00:11:16.547 Services Task Force,

NOTE Confidence: 0.8817059

00:11:16.550 --> 00:11:18.990 which is this independent Organism.

NOTE Confidence: 0.8817059

00:11:18.990 --> 00:11:22.000 The basically looks at the at the

NOTE Confidence: 0.8817059

00:11:22.000 --> 00:11:23.925 medical literature very carefully

NOTE Confidence: 0.8817059

00:11:23.925 --> 00:11:26.715 and ends up issuing recommendations

NOTE Confidence: 0.8817059

00:11:26.715 --> 00:11:28.947 for screening and prevention

NOTE Confidence: 0.8817059

00:11:29.027 --> 00:11:31.787 that really widely adopted by the  
NOTE Confidence: 0.8817059

00:11:31.787 --> 00:11:33.627 primary care providers and,  
NOTE Confidence: 0.8817059

00:11:33.630 --> 00:11:36.794 and they've been telling us for awhile  
NOTE Confidence: 0.8817059

00:11:36.794 --> 00:11:39.489 that screening average risk individuals,  
NOTE Confidence: 0.8817059

00:11:39.490 --> 00:11:40.344 asymptomatic ages.  
NOTE Confidence: 0.8817059

00:11:40.344 --> 00:11:43.760 50 to 75 is definitely been has definitely  
NOTE Confidence: 0.8817059

00:11:43.836 --> 00:11:46.636 been proven to be a substantial benefit,  
NOTE Confidence: 0.8817059

00:11:46.640 --> 00:11:48.735 and there's really no question  
NOTE Confidence: 0.8817059

00:11:48.735 --> 00:11:51.281 about it nowadays and there are  
NOTE Confidence: 0.8817059

00:11:51.281 --> 00:11:53.146 not that many cancers were.  
NOTE Confidence: 0.8817059

00:11:53.150 --> 00:11:54.678 Screening is clearly associated  
NOTE Confidence: 0.8817059

00:11:54.678 --> 00:11:56.970 with a decrease in and cancer  
NOTE Confidence: 0.8817059

00:11:57.034 --> 00:11:58.850 and cancer related mortality.  
NOTE Confidence: 0.8817059

00:11:58.850 --> 00:12:00.885 The benefits of early detection  
NOTE Confidence: 0.8817059

00:12:00.885 --> 00:12:02.920 according to the USPS TF.  
NOTE Confidence: 0.8817059

00:12:02.920 --> 00:12:05.055 An intervention for colon cancer

NOTE Confidence: 0.8817059

00:12:05.055 --> 00:12:08.029 screening decline after age 75 and the

NOTE Confidence: 0.8817059

00:12:08.029 --> 00:12:10.717 decision to screen individuals aged 76 two.

NOTE Confidence: 0.8817059

00:12:10.720 --> 00:12:12.708 85 should be individualized,

NOTE Confidence: 0.8817059

00:12:12.708 --> 00:12:14.696 considering really the overall

NOTE Confidence: 0.8817059

00:12:14.696 --> 00:12:16.899 health and prior screening.

NOTE Confidence: 0.8817059

00:12:16.900 --> 00:12:20.986 History and benefit for adults 85

NOTE Confidence: 0.8817059

00:12:20.986 --> 00:12:25.730 and older in general has to be very.

NOTE Confidence: 0.8817059

00:12:25.730 --> 00:12:27.665 The potential adverse events usually

NOTE Confidence: 0.8817059

00:12:27.665 --> 00:12:29.213 probably outweighed the benefits.

NOTE Confidence: 0.8817059

00:12:29.220 --> 00:12:32.204 I must say that there is a recent

NOTE Confidence: 0.8817059

00:12:32.204 --> 00:12:34.376 literature showing that there are ways

NOTE Confidence: 0.8817059

00:12:34.376 --> 00:12:37.353 to re stratify and and that they are

NOTE Confidence: 0.8817059

00:12:37.353 --> 00:12:39.981 showing that actually even in older

NOTE Confidence: 0.8817059

00:12:39.981 --> 00:12:41.988 individuals they could also benefit,

NOTE Confidence: 0.8817059

00:12:41.988 --> 00:12:45.130 so I think we'll hear more about these,

NOTE Confidence: 0.8817059

00:12:45.130 --> 00:12:48.850 and this probably could be a little bit  
NOTE Confidence: 0.8817059

00:12:48.850 --> 00:12:52.540 of moving moving target in the future.  
NOTE Confidence: 0.8817059

00:12:52.540 --> 00:12:53.470 Modalities of screening.  
NOTE Confidence: 0.8817059

00:12:53.470 --> 00:12:56.450 I think this is the one we are more  
NOTE Confidence: 0.8817059

00:12:56.450 --> 00:12:58.315 familiar with the the colonoscopy.  
NOTE Confidence: 0.8817059

00:12:58.320 --> 00:13:00.360 This insertion of this flexible rubber  
NOTE Confidence: 0.8817059

00:13:00.360 --> 00:13:02.722 tube through the \*\*\*\*\* where we can  
NOTE Confidence: 0.8817059

00:13:02.722 --> 00:13:05.060 look at the entire colon with the  
NOTE Confidence: 0.81444025

00:13:05.133 --> 00:13:06.838 camera and remove polyps which  
NOTE Confidence: 0.81444025

00:13:06.838 --> 00:13:09.199 is at the end of the day.  
NOTE Confidence: 0.81444025

00:13:09.200 --> 00:13:11.685 What really ends up saving lives because  
NOTE Confidence: 0.81444025

00:13:11.685 --> 00:13:14.086 those polyps left and check would go  
NOTE Confidence: 0.81444025

00:13:14.086 --> 00:13:15.994 and grow and develop into cancer,  
NOTE Confidence: 0.81444025

00:13:16.000 --> 00:13:18.149 so that's really what we want to  
NOTE Confidence: 0.81444025

00:13:18.149 --> 00:13:20.080 avoid and that's what's avoided.  
NOTE Confidence: 0.81444025

00:13:20.080 --> 00:13:21.151 Removing those polyps,

NOTE Confidence: 0.81444025

00:13:21.151 --> 00:13:22.579 city Cornography is another.

NOTE Confidence: 0.81444025

00:13:22.580 --> 00:13:25.492 Option, which is sort of a CAT scan

NOTE Confidence: 0.81444025

00:13:25.492 --> 00:13:27.298 that's focusing on the column.

NOTE Confidence: 0.81444025

00:13:27.300 --> 00:13:28.788 And stool based tests.

NOTE Confidence: 0.81444025

00:13:28.788 --> 00:13:31.770 We have a couple of options nowadays.

NOTE Confidence: 0.81444025

00:13:31.770 --> 00:13:33.800 We're really using the stool

NOTE Confidence: 0.81444025

00:13:33.800 --> 00:13:35.830 based test that we've seen.

NOTE Confidence: 0.81444025

00:13:35.830 --> 00:13:37.860 A significant also decrease in

NOTE Confidence: 0.81444025

00:13:37.860 --> 00:13:39.484 both incidence and mortality

NOTE Confidence: 0.81444025

00:13:39.484 --> 00:13:41.100 from that approach too.

NOTE Confidence: 0.81444025

00:13:41.100 --> 00:13:44.754 So nowadays we do have a menu of options,

NOTE Confidence: 0.81444025

00:13:44.760 --> 00:13:48.008 all of them end up if positive in

NOTE Confidence: 0.81444025

00:13:48.008 --> 00:13:49.948 a colonoscopy, that's for sure,

NOTE Confidence: 0.81444025

00:13:49.948 --> 00:13:52.204 but some of those options are

NOTE Confidence: 0.81444025

00:13:52.204 --> 00:13:53.689 less invasive food,

NOTE Confidence: 0.81444025

00:13:53.690 --> 00:13:56.222 so they could be more attractive  
NOTE Confidence: 0.81444025

00:13:56.222 --> 00:13:57.910 as initial pre screening.  
NOTE Confidence: 0.81444025

00:13:57.910 --> 00:13:59.638 So we're dividing them between the  
NOTE Confidence: 0.81444025

00:13:59.638 --> 00:14:02.001 the ones that are we call direct  
NOTE Confidence: 0.81444025

00:14:02.001 --> 00:14:03.916 visualization ones who treated include  
NOTE Confidence: 0.81444025

00:14:03.916 --> 00:14:05.568 the colonoscopy every 10 years.  
NOTE Confidence: 0.81444025

00:14:05.570 --> 00:14:08.226 Sigmoid osca P will be the shorter version,  
NOTE Confidence: 0.81444025

00:14:08.230 --> 00:14:10.542 or some way to ask would be every  
NOTE Confidence: 0.81444025

00:14:10.542 --> 00:14:13.545 10 years plus a stool test or city  
NOTE Confidence: 0.81444025

00:14:13.545 --> 00:14:15.492 colonography approved for every five  
NOTE Confidence: 0.81444025

00:14:15.492 --> 00:14:17.916 years and then those two based as I  
NOTE Confidence: 0.81444025

00:14:17.916 --> 00:14:20.884 was talking to you about Efobi teza know one.  
NOTE Confidence: 0.81444025

00:14:20.890 --> 00:14:23.878 Most of it is no longer used but fit.  
NOTE Confidence: 0.81444025

00:14:23.880 --> 00:14:25.670 Testing is definitely widely used  
NOTE Confidence: 0.81444025

00:14:25.670 --> 00:14:27.460 and that African multi target  
NOTE Confidence: 0.81444025

00:14:27.524 --> 00:14:29.330 DNA test is also another stool

NOTE Confidence: 0.81444025

00:14:29.330 --> 00:14:30.940 test that's being used again.

NOTE Confidence: 0.81444025

00:14:30.940 --> 00:14:32.263 Windows are positive,

NOTE Confidence: 0.81444025

00:14:32.263 --> 00:14:35.850 a colonoscopy is the thing to do here,

NOTE Confidence: 0.81444025

00:14:35.850 --> 00:14:38.334 but as doctor conventional so not

NOTE Confidence: 0.81444025

00:14:38.334 --> 00:14:41.936 all is good news and the fact that

NOTE Confidence: 0.81444025

00:14:41.936 --> 00:14:43.792 we're seeing more individuals

NOTE Confidence: 0.81444025

00:14:43.792 --> 00:14:46.548 not only not only movie stars,

NOTE Confidence: 0.81444025

00:14:46.550 --> 00:14:48.944 but really we hear of a significant

NOTE Confidence: 0.81444025

00:14:48.944 --> 00:14:50.726 number of young individuals

NOTE Confidence: 0.81444025

00:14:50.726 --> 00:14:52.787 developing colorectal cancer,

NOTE Confidence: 0.81444025

00:14:52.790 --> 00:14:55.020 that's truly a trend that's

NOTE Confidence: 0.81444025

00:14:55.020 --> 00:14:57.250 been documented since the 1990s.

NOTE Confidence: 0.81444025

00:14:57.250 --> 00:14:57.718 This,

NOTE Confidence: 0.81444025

00:14:57.718 --> 00:15:00.526 along with this very steady decline

NOTE Confidence: 0.81444025

00:15:00.526 --> 00:15:03.108 that we talked about in the.

NOTE Confidence: 0.81444025



00:15:03.110 --> 00:15:05.918 Older than 50 for the individuals  
NOTE Confidence: 0.81444025

00:15:05.918 --> 00:15:08.190 that are 20 to 49,  
NOTE Confidence: 0.81444025

00:15:08.190 --> 00:15:11.613 we see this steady rise in colorectal  
NOTE Confidence: 0.81444025

00:15:11.613 --> 00:15:14.659 cancer incidence both for men and women.  
NOTE Confidence: 0.81444025

00:15:14.660 --> 00:15:16.504 Very, very unfortunate trend.  
NOTE Confidence: 0.81444025

00:15:16.504 --> 00:15:17.426 And actually,  
NOTE Confidence: 0.81444025

00:15:17.430 --> 00:15:19.865 when we're looking at individuals  
NOTE Confidence: 0.81444025

00:15:19.865 --> 00:15:23.311 that are each 50 here in this  
NOTE Confidence: 0.81444025

00:15:23.311 --> 00:15:26.071 and these incidents for the age  
NOTE Confidence: 0.81444025

00:15:26.071 --> 00:15:28.058 15 incidents for the 45.  
NOTE Confidence: 0.81444025

00:15:28.060 --> 00:15:31.236 What we see here is that in 1993  
NOTE Confidence: 0.81444025

00:15:31.236 --> 00:15:34.158 the risk of colorectal cancer.  
NOTE Confidence: 0.81444025

00:15:34.160 --> 00:15:36.841 For a 50 year old is exactly  
NOTE Confidence: 0.81444025

00:15:36.841 --> 00:15:39.914 the same as the risk that it is  
NOTE Confidence: 0.81444025

00:15:39.914 --> 00:15:42.700 right now for a 45 year old.  
NOTE Confidence: 0.81444025

00:15:42.700 --> 00:15:45.040 So so several years back actually

NOTE Confidence: 0.81444025

00:15:45.040 --> 00:15:47.740 their risk was pretty similar for 55,

NOTE Confidence: 0.81444025

00:15:47.740 --> 00:15:50.456 then that is right now for 45,

NOTE Confidence: 0.81444025

00:15:50.460 --> 00:15:53.036 so we see this steady decline in

NOTE Confidence: 0.81444025

00:15:53.036 --> 00:15:55.824 the incidence of of the of the

NOTE Confidence: 0.81444025

00:15:55.824 --> 00:15:57.829 age of diagnosis very unfortunate.

NOTE Confidence: 0.81444025

00:15:57.830 --> 00:15:59.924 Another important aspect is that for

NOTE Confidence: 0.81444025

00:15:59.924 --> 00:16:02.324 many years we have been recommending

NOTE Confidence: 0.81444025

00:16:02.324 --> 00:16:04.188 to screen start screening.

NOTE Confidence: 0.81444025

00:16:04.190 --> 00:16:06.845 Directed at an African Americans

NOTE Confidence: 0.81444025

00:16:06.845 --> 00:16:09.500 for colorectal cancer at 45.

NOTE Confidence: 0.81444025

00:16:09.500 --> 00:16:12.810 Just because there were significantly

NOTE Confidence: 0.81444025

00:16:12.810 --> 00:16:15.458 higher number of individuals

NOTE Confidence: 0.81444025

00:16:15.458 --> 00:16:18.696 being diagnosed at a younger age.

NOTE Confidence: 0.81444025

00:16:18.700 --> 00:16:20.750 Over the last few years,

NOTE Confidence: 0.81444025

00:16:20.750 --> 00:16:23.312 is that white and actually all the

NOTE Confidence: 0.81444025

00:16:23.312 --> 00:16:25.875 ethnic groups F with that trend  
NOTE Confidence: 0.81444025

00:16:25.875 --> 00:16:27.719 increasing in the incidents,  
NOTE Confidence: 0.7980542

00:16:27.720 --> 00:16:30.792 they basically pretty much are at the same  
NOTE Confidence: 0.7980542

00:16:30.792 --> 00:16:34.275 level as African Americans are at this time.  
NOTE Confidence: 0.7980542

00:16:34.280 --> 00:16:36.290 So really, that's extremely concerning  
NOTE Confidence: 0.7980542

00:16:36.290 --> 00:16:38.790 because instead of all doing better,  
NOTE Confidence: 0.7980542

00:16:38.790 --> 00:16:41.226 actually what we've done is just  
NOTE Confidence: 0.7980542

00:16:41.226 --> 00:16:42.850 equalizing upwards towards the  
NOTE Confidence: 0.7980542

00:16:42.922 --> 00:16:44.952 higher incidence with the African  
NOTE Confidence: 0.7980542

00:16:44.952 --> 00:16:46.982 Americans who had the photos,  
NOTE Confidence: 0.7980542

00:16:46.990 --> 00:16:49.390 the group with the highest.  
NOTE Confidence: 0.7980542

00:16:49.390 --> 00:16:51.450 Levels of young onset cancer.  
NOTE Confidence: 0.7980542

00:16:51.450 --> 00:16:53.510 So so because of these  
NOTE Confidence: 0.7980542

00:16:53.510 --> 00:16:55.570 trends and what you've heard,  
NOTE Confidence: 0.7980542

00:16:55.570 --> 00:16:57.570 the American Cancer Society couple  
NOTE Confidence: 0.7980542

00:16:57.570 --> 00:16:59.570 years ago started recommending to

NOTE Confidence: 0.7980542

00:16:59.631 --> 00:17:01.746 screen for average risk individuals,

NOTE Confidence: 0.7980542

00:17:01.750 --> 00:17:04.282 meaning individuals who feel fine who

NOTE Confidence: 0.7980542

00:17:04.282 --> 00:17:07.550 do not have family history who do not

NOTE Confidence: 0.7980542

00:17:07.550 --> 00:17:10.312 have any reason to believe that they

NOTE Confidence: 0.7980542

00:17:10.312 --> 00:17:13.266 have an average higher than average risk

NOTE Confidence: 0.7980542

00:17:13.266 --> 00:17:16.576 of correct cancer again to start at 45.

NOTE Confidence: 0.7980542

00:17:16.580 --> 00:17:19.876 And while USPS TF that we mentioned before,

NOTE Confidence: 0.7980542

00:17:19.880 --> 00:17:21.266 has been recommended.

NOTE Confidence: 0.7980542

00:17:21.266 --> 00:17:23.576 MH 5050 as Africans mentioned,

NOTE Confidence: 0.7980542

00:17:23.580 --> 00:17:26.708 the USPS TF put a draft out last

NOTE Confidence: 0.7980542

00:17:26.708 --> 00:17:28.908 October that they were suggesting

NOTE Confidence: 0.7980542

00:17:28.908 --> 00:17:32.009 to revise that age of onset of

NOTE Confidence: 0.7980542

00:17:32.099 --> 00:17:35.054 colorectal cancer screening for average

NOTE Confidence: 0.7980542

00:17:35.054 --> 00:17:38.471 individuals to 45 instead of 50.

NOTE Confidence: 0.7980542

00:17:38.471 --> 00:17:42.159 That's probably going to be approved and I

NOTE Confidence: 0.7980542

00:17:42.159 --> 00:17:46.175 think that's where we're moving at this time.

NOTE Confidence: 0.7980542

00:17:46.180 --> 00:17:49.572 To really make sure that we are capturing

NOTE Confidence: 0.7980542

00:17:49.572 --> 00:17:52.566 more and more individuals, and.

NOTE Confidence: 0.7980542

00:17:52.566 --> 00:17:55.030 We're saving more lives.

NOTE Confidence: 0.7980542

00:17:55.030 --> 00:17:56.138 Thank you very much.

NOTE Confidence: 0.8843613

00:17:59.040 --> 00:18:00.590 Thank you so much Doctor,

NOTE Confidence: 0.8843613

00:18:00.590 --> 00:18:02.140 you are that was great.

NOTE Confidence: 0.8843612999999999

00:18:02.140 --> 00:18:04.162 So I encourage the audience to

NOTE Confidence: 0.8843612999999999

00:18:04.162 --> 00:18:06.426 please feel free to ask questions in

NOTE Confidence: 0.8843612999999999

00:18:06.426 --> 00:18:09.067 the Q&A box we can get to them in

NOTE Confidence: 0.8843612999999999

00:18:09.067 --> 00:18:11.139 writing or we will answer them by

NOTE Confidence: 0.8843612999999999

00:18:11.139 --> 00:18:13.300 we will go next to Doctor Mcwhorter.

NOTE Confidence: 0.8940914

00:18:18.200 --> 00:18:19.200 Thank you.

NOTE Confidence: 0.854344

00:18:22.600 --> 00:18:24.838 Quarter I'm a colon and rectal

NOTE Confidence: 0.854344

00:18:24.838 --> 00:18:26.330 surgeon at Greenwich Hospital.

NOTE Confidence: 0.854344

00:18:26.330 --> 00:18:28.376 Thank you for having me and

NOTE Confidence: 0.854344

00:18:28.376 --> 00:18:30.809 welcome to all of the audience.

NOTE Confidence: 0.854344

00:18:30.810 --> 00:18:32.952 I'm talking about the surgical treatment

NOTE Confidence: 0.854344

00:18:32.952 --> 00:18:35.280 of colon cancer and rectal cancer.

NOTE Confidence: 0.824931

00:18:37.710 --> 00:18:40.960 Tonight. I'm going to try to

NOTE Confidence: 0.824931

00:18:40.960 --> 00:18:43.260 put my timer on so that I stay.

NOTE Confidence: 0.824931

00:18:43.260 --> 00:18:45.020 Right on time, surgical treatment

NOTE Confidence: 0.824931

00:18:45.020 --> 00:18:47.260 of colon cancer and rectal cancer.

NOTE Confidence: 0.824931

00:18:47.260 --> 00:18:50.396 So I want to make a distinction

NOTE Confidence: 0.824931

00:18:50.396 --> 00:18:53.239 between what the two things are.

NOTE Confidence: 0.824931

00:18:53.240 --> 00:18:55.550 So a little bit of anatomy.

NOTE Confidence: 0.824931

00:18:55.550 --> 00:18:57.090 I am a surgeon,

NOTE Confidence: 0.824931

00:18:57.090 --> 00:18:59.412 so the colon and \*\*\*\*\* are

NOTE Confidence: 0.824931

00:18:59.412 --> 00:19:01.764 depicted in this diagram in the

NOTE Confidence: 0.824931

00:19:01.764 --> 00:19:04.019 right upper portion of the screen.

NOTE Confidence: 0.824931

00:19:04.020 --> 00:19:06.715 The colon is the 1st 5 feet

NOTE Confidence: 0.824931

00:19:06.715 --> 00:19:07.870 of large intestine.  
NOTE Confidence: 0.824931

00:19:07.870 --> 00:19:10.684 The \*\*\*\*\* is the continuation of the  
NOTE Confidence: 0.824931

00:19:10.684 --> 00:19:13.258 large intestine as it exits the body.  
NOTE Confidence: 0.824931

00:19:13.260 --> 00:19:14.908 Eliminate ING our waste.  
NOTE Confidence: 0.824931

00:19:14.908 --> 00:19:18.165 The purpose of the colon is to store  
NOTE Confidence: 0.824931

00:19:18.165 --> 00:19:20.957 our waste and draw water out of it.  
NOTE Confidence: 0.824931

00:19:20.960 --> 00:19:22.890 So colon cancer is doctor.  
NOTE Confidence: 0.824931

00:19:22.890 --> 00:19:24.558 Yours pointed out is.  
NOTE Confidence: 0.824931

00:19:24.558 --> 00:19:27.576 Is cancer that develops in the lining  
NOTE Confidence: 0.824931

00:19:27.576 --> 00:19:30.607 or mucosa of the colon or large  
NOTE Confidence: 0.824931

00:19:30.607 --> 00:19:32.760 intestine which are synonymous?  
NOTE Confidence: 0.824931

00:19:32.760 --> 00:19:35.203 I want to point out that there  
NOTE Confidence: 0.824931

00:19:35.203 --> 00:19:36.850 are differences in management  
NOTE Confidence: 0.824931

00:19:36.850 --> 00:19:38.958 between these two cancers.  
NOTE Confidence: 0.824931

00:19:38.960 --> 00:19:40.157 In colon cancer.  
NOTE Confidence: 0.824931

00:19:40.157 --> 00:19:42.551 I think even my oncology colleagues

NOTE Confidence: 0.824931

00:19:42.551 --> 00:19:44.740 would agree surgery is primary.

NOTE Confidence: 0.9020555

00:19:46.940 --> 00:19:49.856 We removed the cancer in less.

NOTE Confidence: 0.9020555

00:19:49.860 --> 00:19:53.206 It has already spread to distant organs

NOTE Confidence: 0.9020555

00:19:53.206 --> 00:19:56.679 and then after removal of the cancer,

NOTE Confidence: 0.9020555

00:19:56.680 --> 00:20:00.649 there may be a role for chemotherapy.

NOTE Confidence: 0.9020555

00:20:00.650 --> 00:20:03.050 Some patients don't have to have

NOTE Confidence: 0.9020555

00:20:03.050 --> 00:20:06.219 chemotherapy, and that's fantastic.

NOTE Confidence: 0.9020555

00:20:06.220 --> 00:20:08.614 I want to draw the distinction to

NOTE Confidence: 0.9020555

00:20:08.614 --> 00:20:10.804 rectal cancer, where surgery is but

NOTE Confidence: 0.9020555

00:20:10.804 --> 00:20:13.840 one of the tools in the toolkit.

NOTE Confidence: 0.9020555

00:20:13.840 --> 00:20:17.459 Rectal cancer is much more of a

NOTE Confidence: 0.9020555

00:20:17.459 --> 00:20:20.054 multi modality, not the colon.

NOTE Confidence: 0.9020555

00:20:20.054 --> 00:20:22.076 Cancer isn't, but rectal.

NOTE Confidence: 0.9020555

00:20:22.076 --> 00:20:25.034 Cancer is very much a multi

NOTE Confidence: 0.9020555

00:20:25.034 --> 00:20:26.790 modality treatment disease,

NOTE Confidence: 0.9020555



00:20:26.790 --> 00:20:28.032 where chemotherapy,  
NOTE Confidence: 0.9020555

00:20:28.032 --> 00:20:31.758 radiation and surgery are all utilized  
NOTE Confidence: 0.9020555

00:20:31.758 --> 00:20:35.966 in the management of rectal cancer I.  
NOTE Confidence: 0.9020555

00:20:35.970 --> 00:20:38.938 I often sort of mentioned in my patients.  
NOTE Confidence: 0.9020555

00:20:38.940 --> 00:20:41.430 You can think of three.  
NOTE Confidence: 0.9020555

00:20:41.430 --> 00:20:43.418 Treatment modalities for cancers.  
NOTE Confidence: 0.9020555

00:20:43.418 --> 00:20:46.400 And this is pretty much true.  
NOTE Confidence: 0.9020555

00:20:46.400 --> 00:20:49.810 I think for all cancers one is to do surgery.  
NOTE Confidence: 0.9020555

00:20:49.810 --> 00:20:51.763 One is to do radiation and one  
NOTE Confidence: 0.9020555

00:20:51.763 --> 00:20:53.560 is to give chemotherapy.  
NOTE Confidence: 0.9020555

00:20:53.560 --> 00:20:56.242 So those are our three treatment  
NOTE Confidence: 0.9020555

00:20:56.242 --> 00:20:59.237 modalities and surgery plays a role in  
NOTE Confidence: 0.9020555

00:20:59.237 --> 00:21:01.487 both colon cancer and rectal cancer.  
NOTE Confidence: 0.9020555

00:21:01.490 --> 00:21:05.536 However, it's more primary to colon cancer.  
NOTE Confidence: 0.9020555

00:21:05.540 --> 00:21:07.440 What's the standard pathway for  
NOTE Confidence: 0.9020555

00:21:07.440 --> 00:21:08.960 management of colon cancer?

NOTE Confidence: 0.9020555

00:21:08.960 --> 00:21:10.862 One make the diagnosis that's generally

NOTE Confidence: 0.9020555

00:21:10.862 --> 00:21:13.520 in the court of the gastroenterologist,

NOTE Confidence: 0.9020555

00:21:13.520 --> 00:21:15.800 who in most cases it's being

NOTE Confidence: 0.9020555

00:21:15.800 --> 00:21:16.940 diagnosed with colonoscopy,

NOTE Confidence: 0.9020555

00:21:16.940 --> 00:21:19.348 where a biopsy is taken of suspicious

NOTE Confidence: 0.9020555

00:21:19.348 --> 00:21:22.097 tissue in the colon and the pathologist

NOTE Confidence: 0.9020555

00:21:22.097 --> 00:21:24.157 confirms that this is cancer.

NOTE Confidence: 0.9020555

00:21:24.160 --> 00:21:26.060 I always tell my patients,

NOTE Confidence: 0.9020555

00:21:26.060 --> 00:21:28.692 regardless of the type of cancer your

NOTE Confidence: 0.9020555

00:21:28.692 --> 00:21:31.592 next step is to figure out is this

NOTE Confidence: 0.9020555

00:21:31.592 --> 00:21:33.893 early cancer or is this advanced

NOTE Confidence: 0.9020555

00:21:33.893 --> 00:21:36.528 cancer and that's called staging.

NOTE Confidence: 0.9020555

00:21:36.530 --> 00:21:39.458 Staging involves getting a CAT scan

NOTE Confidence: 0.9020555

00:21:39.458 --> 00:21:43.456 and doing a blood test called CEA to

NOTE Confidence: 0.9020555

00:21:43.456 --> 00:21:47.400 determine how we caught this early or or not.

NOTE Confidence: 0.9020555

00:21:47.400 --> 00:21:50.304 Step three is in most cases for colon  
NOTE Confidence: 0.9020555

00:21:50.304 --> 00:21:53.819 cancer is the surgeon who removes the cancer.  
NOTE Confidence: 0.9020555

00:21:53.820 --> 00:21:56.214 The removed piece of colon goes  
NOTE Confidence: 0.9020555

00:21:56.214 --> 00:21:58.673 to the pathologist who tells us  
NOTE Confidence: 0.9020555

00:21:58.673 --> 00:22:00.628 how advanced this cancer is,  
NOTE Confidence: 0.9020555

00:22:00.630 --> 00:22:02.958 how deeply into the wall of  
NOTE Confidence: 0.9020555

00:22:02.958 --> 00:22:05.040 the colon did it grow,  
NOTE Confidence: 0.9020555

00:22:05.040 --> 00:22:07.050 and did lymph nodes becoming?  
NOTE Confidence: 0.9020555

00:22:07.050 --> 00:22:09.458 Did the colon cancer spread into the  
NOTE Confidence: 0.9020555

00:22:09.458 --> 00:22:11.913 lymph nodes and then after after  
NOTE Confidence: 0.9020555

00:22:11.913 --> 00:22:14.163 the surgeon and pathologist are  
NOTE Confidence: 0.9020555

00:22:14.163 --> 00:22:17.400 primarily involved, the oncologist?  
NOTE Confidence: 0.9020555

00:22:17.400 --> 00:22:20.040 Takes the ball and either delivered  
NOTE Confidence: 0.9020555

00:22:20.040 --> 00:22:21.360 is the chemotherapy,  
NOTE Confidence: 0.9020555

00:22:21.360 --> 00:22:23.808 or if chemotherapy is not necessary  
NOTE Confidence: 0.9020555

00:22:23.808 --> 00:22:26.639 in a case of colon cancer,

NOTE Confidence: 0.9020555

00:22:26.640 --> 00:22:28.840 young cologist is involved for

NOTE Confidence: 0.9020555

00:22:28.840 --> 00:22:29.720 their surveillance.

NOTE Confidence: 0.9020555

00:22:29.720 --> 00:22:32.360 That colon cancer doesn't come back,

NOTE Confidence: 0.9020555

00:22:32.360 --> 00:22:33.680 which includes having

NOTE Confidence: 0.9020555

00:22:33.680 --> 00:22:35.440 colonoscopies having blood tests,

NOTE Confidence: 0.9020555

00:22:35.440 --> 00:22:39.766 and in some cases having CAT scans.

NOTE Confidence: 0.9020555

00:22:39.770 --> 00:22:43.046 So who is the quarterback at first?

NOTE Confidence: 0.9020555

00:22:43.050 --> 00:22:45.380 The quarterback is the gastroenterologist

NOTE Confidence: 0.9020555

00:22:45.380 --> 00:22:48.950 here, depicted by a colonoscope.

NOTE Confidence: 0.9020555

00:22:48.950 --> 00:22:49.471 Second,

NOTE Confidence: 0.9020555

00:22:49.471 --> 00:22:52.076 after the diagnosis is made,

NOTE Confidence: 0.9020555

00:22:52.080 --> 00:22:54.208 the by the gastroenterologist,

NOTE Confidence: 0.9020555

00:22:54.208 --> 00:22:57.400 the quarterback in helping guide the

NOTE Confidence: 0.9020555

00:22:57.481 --> 00:22:59.821 patient through this experience is

NOTE Confidence: 0.9020555

00:22:59.821 --> 00:23:03.040 the surgeon who does the operation.

NOTE Confidence: 0.9020555

00:23:03.040 --> 00:23:06.412 Manage is the recovery from surgery  
NOTE Confidence: 0.9020555

00:23:06.412 --> 00:23:09.695 and then three depicted down here  
NOTE Confidence: 0.9020555

00:23:09.695 --> 00:23:12.957 in the lowest part of the diagram.  
NOTE Confidence: 0.9020555

00:23:12.960 --> 00:23:15.570 The pills represent the oncologist,  
NOTE Confidence: 0.9020555

00:23:15.570 --> 00:23:19.386 who gives the medicine that kills.  
NOTE Confidence: 0.9020555

00:23:19.390 --> 00:23:21.700 Cancer that was not removed by surgery.  
NOTE Confidence: 0.9020555

00:23:21.700 --> 00:23:23.596 What we call systemic disease disease  
NOTE Confidence: 0.9020555

00:23:23.596 --> 00:23:26.318 that may be in the blood blood stream.  
NOTE Confidence: 0.9020555

00:23:26.320 --> 00:23:29.141 Maybe in lymph nodes may be trying  
NOTE Confidence: 0.9020555

00:23:29.141 --> 00:23:32.547 to set up shop in distant organs.  
NOTE Confidence: 0.9020555

00:23:32.550 --> 00:23:33.780 Rectal cancer again.  
NOTE Confidence: 0.9020555

00:23:33.780 --> 00:23:36.650 To draw the distinction to colon cancer  
NOTE Confidence: 0.85033584

00:23:36.727 --> 00:23:38.367 is not so cookie cutter.  
NOTE Confidence: 0.85033584

00:23:38.370 --> 00:23:40.670 There are many options for  
NOTE Confidence: 0.85033584

00:23:40.670 --> 00:23:42.970 how rectal cancer is managed.  
NOTE Confidence: 0.85033584

00:23:42.970 --> 00:23:44.840 Number one, some patients will

NOTE Confidence: 0.85033584

00:23:44.840 --> 00:23:47.098 get chemotherapy and they will get

NOTE Confidence: 0.85033584

00:23:47.098 --> 00:23:49.373 radiation and they will get surgery at

NOTE Confidence: 0.85033584

00:23:49.373 --> 00:23:51.677 some point in their treatment course.

NOTE Confidence: 0.85033584

00:23:51.680 --> 00:23:53.918 Some patients who have a rectal

NOTE Confidence: 0.85033584

00:23:53.918 --> 00:23:56.441 cancer that is higher up in their

NOTE Confidence: 0.85033584

00:23:56.441 --> 00:23:59.290 \*\*\*\*\* may only get surgery and

NOTE Confidence: 0.85033584

00:23:59.290 --> 00:24:01.820 not need the other modalities.

NOTE Confidence: 0.85033584

00:24:01.820 --> 00:24:03.740 Some patients will have surgery

NOTE Confidence: 0.85033584

00:24:03.740 --> 00:24:06.410 before they get chemo and radiation.

NOTE Confidence: 0.85033584

00:24:06.410 --> 00:24:08.315 Some patients will get surgery

NOTE Confidence: 0.85033584

00:24:08.315 --> 00:24:10.990 after they get chemo and radiation.

NOTE Confidence: 0.85033584

00:24:10.990 --> 00:24:14.640 It's a very confusing landscape.

NOTE Confidence: 0.85033584

00:24:14.640 --> 00:24:16.460 For patients to understand,

NOTE Confidence: 0.85033584

00:24:16.460 --> 00:24:17.370 even frankly,

NOTE Confidence: 0.85033584

00:24:17.370 --> 00:24:20.555 for doctors to understand #5I point out,

NOTE Confidence: 0.85033584

00:24:20.560 --> 00:24:21.548 down here.  
NOTE Confidence: 0.85033584

00:24:21.548 --> 00:24:24.018 Some patients now are getting  
NOTE Confidence: 0.85033584

00:24:24.018 --> 00:24:26.386 chemotherapy and radiation for rectal  
NOTE Confidence: 0.85033584

00:24:26.386 --> 00:24:29.200 cancer and not having to have surgery.  
NOTE Confidence: 0.85033584

00:24:29.200 --> 00:24:31.492 That's because we have found over  
NOTE Confidence: 0.85033584

00:24:31.492 --> 00:24:34.804 the last decade or so that in some  
NOTE Confidence: 0.85033584

00:24:34.804 --> 00:24:36.508 cases delivery of chemotherapy  
NOTE Confidence: 0.85033584

00:24:36.508 --> 00:24:39.176 and deliver radiation can actually  
NOTE Confidence: 0.85033584

00:24:39.176 --> 00:24:41.488 eliminate the cancer altogether,  
NOTE Confidence: 0.85033584

00:24:41.490 --> 00:24:44.220 and in certain highly selected patients,  
NOTE Confidence: 0.85033584

00:24:44.220 --> 00:24:46.052 surgery may be avoided.  
NOTE Confidence: 0.85033584

00:24:46.052 --> 00:24:50.448 So this is simply to point out that it is a.  
NOTE Confidence: 0.85033584

00:24:50.450 --> 00:24:51.440 These are different.  
NOTE Confidence: 0.85033584

00:24:51.440 --> 00:24:53.420 I'm not sure that they're biologically  
NOTE Confidence: 0.85033584

00:24:53.420 --> 00:24:54.819 so different diseases.  
NOTE Confidence: 0.85033584

00:24:54.820 --> 00:24:56.640 It's partly their anatomy where

NOTE Confidence: 0.85033584

00:24:56.640 --> 00:24:57.368 they're located.

NOTE Confidence: 0.85033584

00:24:57.370 --> 00:24:59.272 One could certainly talk about the

NOTE Confidence: 0.85033584

00:24:59.272 --> 00:25:01.739 biology of the two different diseases,

NOTE Confidence: 0.85033584

00:25:01.740 --> 00:25:04.900 but they're certainly managed differently.

NOTE Confidence: 0.85033584

00:25:04.900 --> 00:25:07.572 So a little bit of you know the

NOTE Confidence: 0.85033584

00:25:07.572 --> 00:25:10.269 the meat and potatoes of surgery

NOTE Confidence: 0.85033584

00:25:10.269 --> 00:25:13.179 for colon cancer or rectal cancer.

NOTE Confidence: 0.85033584

00:25:13.180 --> 00:25:15.250 Three modalities that I've shown

NOTE Confidence: 0.85033584

00:25:15.250 --> 00:25:16.906 here on the left.

NOTE Confidence: 0.85033584

00:25:16.910 --> 00:25:19.394 I've shown patients abdomen with an

NOTE Confidence: 0.85033584

00:25:19.394 --> 00:25:21.050 incision representing open surgery.

NOTE Confidence: 0.85033584

00:25:21.050 --> 00:25:23.246 The surgeon can make an incision

NOTE Confidence: 0.85033584

00:25:23.246 --> 00:25:26.112 on the belly and do their work

NOTE Confidence: 0.85033584

00:25:26.112 --> 00:25:28.317 fully inside the patient's abdomen

NOTE Confidence: 0.85033584

00:25:28.317 --> 00:25:30.955 with their hands in their in

NOTE Confidence: 0.85033584



00:25:30.955 --> 00:25:32.635 their instruments in there.  
NOTE Confidence: 0.85033584

00:25:32.640 --> 00:25:35.478 The middle diagram shows a patient.  
NOTE Confidence: 0.85033584

00:25:35.480 --> 00:25:35.946 Gent,  
NOTE Confidence: 0.85033584

00:25:35.946 --> 00:25:38.276 who has small bandages on  
NOTE Confidence: 0.85033584

00:25:38.276 --> 00:25:39.674 small keyhole incisions.  
NOTE Confidence: 0.85033584

00:25:39.680 --> 00:25:41.081 If you will,  
NOTE Confidence: 0.85033584

00:25:41.081 --> 00:25:43.416 which could represent laparoscopic surgery.  
NOTE Confidence: 0.85033584

00:25:43.420 --> 00:25:44.450 Quite frankly,  
NOTE Confidence: 0.85033584

00:25:44.450 --> 00:25:47.025 it could also represent laparoscopic  
NOTE Confidence: 0.85033584

00:25:47.025 --> 00:25:50.038 surgery the the what's done for  
NOTE Confidence: 0.85033584

00:25:50.038 --> 00:25:52.343 for both laparoscopic and robotic  
NOTE Confidence: 0.85033584

00:25:52.343 --> 00:25:54.982 surgery is that air is placed  
NOTE Confidence: 0.85033584

00:25:54.982 --> 00:25:57.430 inside the abdomen so that there's  
NOTE Confidence: 0.85033584

00:25:57.430 --> 00:25:59.734 a greater working volume and then  
NOTE Confidence: 0.85033584

00:25:59.734 --> 00:26:03.030 in the case of laparoscopic surgery,  
NOTE Confidence: 0.85033584

00:26:03.030 --> 00:26:04.950 long skinny instruments that

NOTE Confidence: 0.85033584

00:26:04.950 --> 00:26:06.390 are like chopsticks.

NOTE Confidence: 0.85033584

00:26:06.390 --> 00:26:10.548 Are used to manipulate the tissues,

NOTE Confidence: 0.85033584

00:26:10.550 --> 00:26:16.878 eventually leading to the removal of the.

NOTE Confidence: 0.85033584

00:26:16.880 --> 00:26:20.552 Piece of intestine that has cancer in it

NOTE Confidence: 0.85033584

00:26:20.552 --> 00:26:24.540 and the reattachment of the intestines.

NOTE Confidence: 0.85033584

00:26:24.540 --> 00:26:25.064 Finally,

NOTE Confidence: 0.85033584

00:26:25.064 --> 00:26:29.256 over here on the right is what robotic

NOTE Confidence: 0.85033584

00:26:29.256 --> 00:26:32.740 surgery looks like in robotic surgery.

NOTE Confidence: 0.85033584

00:26:32.740 --> 00:26:37.420 The surgeon sits at the console and through

NOTE Confidence: 0.85033584

00:26:37.420 --> 00:26:40.947 the movements of his or her fingers,

NOTE Confidence: 0.85033584

00:26:40.950 --> 00:26:44.214 controls the movements of the robotic

NOTE Confidence: 0.85033584

00:26:44.214 --> 00:26:47.749 arms of robot that is executing.

NOTE Confidence: 0.85033584

00:26:47.750 --> 00:26:50.746 The surgeons motions to perform the surgery.

NOTE Confidence: 0.85033584

00:26:50.750 --> 00:26:54.257 That also is a minimally invasive type

NOTE Confidence: 0.85033584

00:26:54.257 --> 00:26:57.564 surgery where the scars might look

NOTE Confidence: 0.85033584

00:26:57.564 --> 00:27:00.414 something like the middle diagram.  
NOTE Confidence: 0.85033584

00:27:00.420 --> 00:27:03.100 Regardless of how which modality  
NOTE Confidence: 0.85033584

00:27:03.100 --> 00:27:05.244 of surgery is chosen,  
NOTE Confidence: 0.85033584

00:27:05.250 --> 00:27:08.478 the principles are the same number.  
NOTE Confidence: 0.85033584

00:27:08.480 --> 00:27:12.320 One complete removal of the cancer.  
NOTE Confidence: 0.85033584

00:27:12.320 --> 00:27:15.038 #2 the lymph nodes as well.  
NOTE Confidence: 0.85033584

00:27:15.040 --> 00:27:17.300 OK, what are lymph nodes?  
NOTE Confidence: 0.85033584

00:27:17.300 --> 00:27:20.924 Lymph nodes are part of our immune system.  
NOTE Confidence: 0.85033584

00:27:20.930 --> 00:27:23.190 They help us fight infections.  
NOTE Confidence: 0.85033584

00:27:23.190 --> 00:27:25.860 They also screen abnormal cells  
NOTE Confidence: 0.85033584

00:27:25.860 --> 00:27:29.140 such as cancer in our body.  
NOTE Confidence: 0.85033584

00:27:29.140 --> 00:27:31.858 Call for colon and rectal cancer.  
NOTE Confidence: 0.85396594

00:27:31.860 --> 00:27:33.580 Like for other cancers,  
NOTE Confidence: 0.85396594

00:27:33.580 --> 00:27:35.730 usually one would expect that  
NOTE Confidence: 0.85396594

00:27:35.730 --> 00:27:38.137 before a cancer metastasizes to  
NOTE Confidence: 0.85396594

00:27:38.137 --> 00:27:40.037 different to distant organs,

NOTE Confidence: 0.85396594

00:27:40.040 --> 00:27:42.470 it often at most often will

NOTE Confidence: 0.85396594

00:27:42.470 --> 00:27:45.195 spread into lymph nodes which live

NOTE Confidence: 0.85396594

00:27:45.195 --> 00:27:47.750 immediately adjacent to the colon.

NOTE Confidence: 0.85396594

00:27:47.750 --> 00:27:50.654 So as part of it as part of

NOTE Confidence: 0.85396594

00:27:50.654 --> 00:27:53.200 a proper cancer operation,

NOTE Confidence: 0.85396594

00:27:53.200 --> 00:27:55.930 when the intestine itself is removed,

NOTE Confidence: 0.85396594

00:27:55.930 --> 00:28:00.097 the lymph nodes also are in order to remove.

NOTE Confidence: 0.85396594

00:28:00.100 --> 00:28:02.430 All potential sites where the

NOTE Confidence: 0.85396594

00:28:02.430 --> 00:28:04.760 colon cancer may have spread

NOTE Confidence: 0.85396594

00:28:04.844 --> 00:28:07.496 locali and then after the removal

NOTE Confidence: 0.85396594

00:28:07.496 --> 00:28:10.070 of the affected piece of colon,

NOTE Confidence: 0.85396594

00:28:10.070 --> 00:28:12.138 the intestines are reconnected.

NOTE Confidence: 0.85396594

00:28:12.138 --> 00:28:15.240 This diagram here shows that the

NOTE Confidence: 0.85396594

00:28:15.328 --> 00:28:18.496 blue portion of colon is the part to

NOTE Confidence: 0.85396594

00:28:18.496 --> 00:28:21.513 be respected and you can notice in

NOTE Confidence: 0.85396594

00:28:21.513 --> 00:28:24.193 the diagram immediately next to it.  
NOTE Confidence: 0.85396594

00:28:24.193 --> 00:28:26.858 The small intestine has now  
NOTE Confidence: 0.85396594

00:28:26.858 --> 00:28:29.670 been reconnected to the colon.  
NOTE Confidence: 0.85396594

00:28:29.670 --> 00:28:32.040 What can a surgery patient expect?  
NOTE Confidence: 0.85396594

00:28:32.040 --> 00:28:35.316 There will be pain for a couple of days  
NOTE Confidence: 0.85396594

00:28:35.316 --> 00:28:38.359 after surgery beyond a couple of days.  
NOTE Confidence: 0.85396594

00:28:38.360 --> 00:28:40.335 Most patients describe that they're  
NOTE Confidence: 0.85396594

00:28:40.335 --> 00:28:41.915 uncomfortable more than that,  
NOTE Confidence: 0.85396594

00:28:41.920 --> 00:28:44.678 they truly are in grimacing type pain.  
NOTE Confidence: 0.85396594

00:28:44.680 --> 00:28:47.370 Most patients will resume a  
NOTE Confidence: 0.85396594

00:28:47.370 --> 00:28:51.010 normal diet in a couple of days.  
NOTE Confidence: 0.85396594

00:28:51.010 --> 00:28:52.156 Fatigue lingers longer.  
NOTE Confidence: 0.85396594

00:28:52.156 --> 00:28:54.066 It is weeks before people  
NOTE Confidence: 0.85396594

00:28:54.066 --> 00:28:56.108 feel their full strength back.  
NOTE Confidence: 0.85396594

00:28:56.110 --> 00:28:58.180 One of the biggest determinants  
NOTE Confidence: 0.85396594

00:28:58.180 --> 00:29:01.405 of of what is your time course of

NOTE Confidence: 0.85396594

00:29:01.405 --> 00:29:04.730 surgery going to be is is your age?

NOTE Confidence: 0.85396594

00:29:04.730 --> 00:29:08.209 OK it's it's a quicker recovery the

NOTE Confidence: 0.85396594

00:29:08.209 --> 00:29:12.086 younger that you are and it takes longer.

NOTE Confidence: 0.85396594

00:29:12.090 --> 00:29:16.206 Sikaran, the older that the patient is.

NOTE Confidence: 0.85396594

00:29:16.210 --> 00:29:18.304 What can a patient expect in

NOTE Confidence: 0.85396594

00:29:18.304 --> 00:29:19.700 terms of their bowels?

NOTE Confidence: 0.85396594

00:29:19.700 --> 00:29:21.728 I will say that rectal cancer

NOTE Confidence: 0.85396594

00:29:21.728 --> 00:29:23.495 treatment affects bowel habits more

NOTE Confidence: 0.85396594

00:29:23.495 --> 00:29:25.280 than colon cancer treatment does.

NOTE Confidence: 0.85396594

00:29:25.280 --> 00:29:27.188 That's because the \*\*\*\*\* is the

NOTE Confidence: 0.85396594

00:29:27.188 --> 00:29:29.470 lowest portion of our large intestine.

NOTE Confidence: 0.85396594

00:29:29.470 --> 00:29:32.529 It's where the storage of the waste

NOTE Confidence: 0.85396594

00:29:32.529 --> 00:29:34.880 happens before it's illuminated.

NOTE Confidence: 0.85396594

00:29:34.880 --> 00:29:37.262 So the elimination and the ultimate

NOTE Confidence: 0.85396594

00:29:37.262 --> 00:29:39.792 storage of our waste is more

NOTE Confidence: 0.85396594

00:29:39.792 --> 00:29:41.957 affected by rectal cancer treatment  
NOTE Confidence: 0.85396594

00:29:41.957 --> 00:29:44.249 then colon cancer treatment is,  
NOTE Confidence: 0.85396594

00:29:44.250 --> 00:29:46.275 and so rectal cancer patients  
NOTE Confidence: 0.85396594

00:29:46.275 --> 00:29:48.300 will have more alterations to  
NOTE Confidence: 0.85396594

00:29:48.373 --> 00:29:50.638 their bowel function and surgery.  
NOTE Confidence: 0.85396594

00:29:50.640 --> 00:29:52.344 Patients will be nervous.  
NOTE Confidence: 0.85396594

00:29:52.344 --> 00:29:53.196 That's normal.  
NOTE Confidence: 0.85396594

00:29:53.200 --> 00:29:56.344 That's one of my job or any physicians  
NOTE Confidence: 0.85396594

00:29:56.344 --> 00:30:00.286 job is to manage the psychosocial part of.  
NOTE Confidence: 0.85396594

00:30:00.290 --> 00:30:01.072 A patient,  
NOTE Confidence: 0.85396594

00:30:01.072 --> 00:30:04.200 I will say that across the board the  
NOTE Confidence: 0.85396594

00:30:04.290 --> 00:30:07.188 most nervous part of for patients  
NOTE Confidence: 0.85396594

00:30:07.188 --> 00:30:10.039 is waiting for treatment to happen.  
NOTE Confidence: 0.85396594

00:30:10.040 --> 00:30:12.992 It's waiting for surgery to come  
NOTE Confidence: 0.85396594

00:30:12.992 --> 00:30:15.790 and then once surgery happens.  
NOTE Confidence: 0.85396594

00:30:15.790 --> 00:30:17.670 They though they have pain,

NOTE Confidence: 0.85396594

00:30:17.670 --> 00:30:19.395 and though they're not probably

NOTE Confidence: 0.85396594

00:30:19.395 --> 00:30:21.790 pleased to be in the hospital,

NOTE Confidence: 0.85396594

00:30:21.790 --> 00:30:24.128 they are nowhere near as sort of

NOTE Confidence: 0.85396594

00:30:24.128 --> 00:30:26.499 anxious as they are when they're

NOTE Confidence: 0.85396594

00:30:26.499 --> 00:30:29.090 waiting for surgery. What's new in surgery?

NOTE Confidence: 0.85396594

00:30:29.090 --> 00:30:31.040 Three things that I'll point out

NOTE Confidence: 0.85396594

00:30:31.106 --> 00:30:32.290 simplified recovery.

NOTE Confidence: 0.85396594

00:30:32.290 --> 00:30:34.210 We're trying to shorten the length

NOTE Confidence: 0.85396594

00:30:34.210 --> 00:30:36.845 of stay in the hospital by managing

NOTE Confidence: 0.85396594

00:30:36.845 --> 00:30:39.413 pain with with less narcotic medicine,

NOTE Confidence: 0.85396594

00:30:39.420 --> 00:30:42.052 trying to get balls to work more

NOTE Confidence: 0.85396594

00:30:42.052 --> 00:30:44.703 quickly so that patients can return

NOTE Confidence: 0.85396594

00:30:44.703 --> 00:30:46.627 to their lives quicker.

NOTE Confidence: 0.85396594

00:30:46.630 --> 00:30:48.940 Certainly technology things such as

NOTE Confidence: 0.85396594

00:30:48.940 --> 00:30:51.851 as robotic surgery have have changed

NOTE Confidence: 0.85396594



00:30:51.851 --> 00:30:56.870 the landscape, and as I touched on.  
NOTE Confidence: 0.85396594

00:30:56.870 --> 00:30:58.860 For rectal cancer in particular,  
NOTE Confidence: 0.85396594

00:30:58.860 --> 00:31:00.448 the treatment paradigm is  
NOTE Confidence: 0.85396594

00:31:00.448 --> 00:31:02.036 changing all the time,  
NOTE Confidence: 0.85396594

00:31:02.040 --> 00:31:04.428 and where surgery used to be.  
NOTE Confidence: 0.85396594

00:31:04.430 --> 00:31:06.420 Arguably the mainstay of treatment,  
NOTE Confidence: 0.85396594

00:31:06.420 --> 00:31:10.400 it is now it is a portion of the treatment,  
NOTE Confidence: 0.8607669

00:31:10.400 --> 00:31:12.788 and it sometimes not even needed.  
NOTE Confidence: 0.8607669

00:31:12.790 --> 00:31:15.974 Thank you for your time, and I'll answer  
NOTE Confidence: 0.8607669

00:31:15.974 --> 00:31:18.760 questions with the rest of the group.  
NOTE Confidence: 0.8657848

00:31:21.020 --> 00:31:23.756 Thank you so much Peter. That was great.  
NOTE Confidence: 0.8657848

00:31:23.756 --> 00:31:26.326 So we will move on next to Doctor  
NOTE Confidence: 0.8657848

00:31:26.326 --> 00:31:29.374 Lee who will talk with us some about  
NOTE Confidence: 0.8657848

00:31:29.374 --> 00:31:32.007 treatment before and after surgery. These.  
NOTE Confidence: 0.8657848

00:31:32.007 --> 00:31:34.269 Names are adamant and knew argument  
NOTE Confidence: 0.8657848

00:31:34.269 --> 00:31:36.748 in fact still describe that some.

NOTE Confidence: 0.8183713

00:31:40.310 --> 00:31:42.056 Doctor Lee, you're on mute still.

NOTE Confidence: 0.79588491

00:31:54.140 --> 00:31:57.114 OK. Sorry about my sorry bout

NOTE Confidence: 0.79588491

00:31:57.114 --> 00:31:58.137 my technical difficulties.

NOTE Confidence: 0.78088886

00:31:58.140 --> 00:32:00.460 So my name is only I am one of the

NOTE Confidence: 0.78088886

00:32:00.528 --> 00:32:02.438 medical oncologist in Greenwich so

NOTE Confidence: 0.78088886

00:32:02.438 --> 00:32:05.254 I will be speaking to you about

NOTE Confidence: 0.78088886

00:32:05.254 --> 00:32:07.349 Azure Vintan Neways even therapy.

NOTE Confidence: 0.78088886

00:32:07.350 --> 00:32:09.920 So what does that mean? So now.

NOTE Confidence: 0.78088886

00:32:09.920 --> 00:32:12.847 A surgeon has well against Mr. Hodges.

NOTE Confidence: 0.78088886

00:32:12.847 --> 00:32:14.749 Lester has diagnosed with colon cancer.

NOTE Confidence: 0.78088886

00:32:14.750 --> 00:32:16.340 You have senior surgeon and

NOTE Confidence: 0.78088886

00:32:16.340 --> 00:32:17.930 you've had the curative surgery.

NOTE Confidence: 0.78088886

00:32:17.930 --> 00:32:19.520 So what do we get?

NOTE Confidence: 0.78088886

00:32:19.520 --> 00:32:21.210 After the curious surgery we

NOTE Confidence: 0.78088886

00:32:21.210 --> 00:32:22.562 get something called Pathologic

NOTE Confidence: 0.78088886

00:32:22.562 --> 00:32:24.286 Stage and I talked to Mcwhorter,  
NOTE Confidence: 0.78088886

00:32:24.290 --> 00:32:26.198 has spoken to you about staging.  
NOTE Confidence: 0.78088886

00:32:26.200 --> 00:32:27.766 Now there are two different type  
NOTE Confidence: 0.78088886

00:32:27.766 --> 00:32:29.930 of stage and that's what we called  
NOTE Confidence: 0.78088886

00:32:29.930 --> 00:32:31.354 clinical staging and there's  
NOTE Confidence: 0.78088886

00:32:31.354 --> 00:32:32.880 something called pathologic staging.  
NOTE Confidence: 0.78088886

00:32:32.880 --> 00:32:34.788 For those of you don't know,  
NOTE Confidence: 0.78088886

00:32:34.790 --> 00:32:36.485 stating just simply means how  
NOTE Confidence: 0.78088886

00:32:36.485 --> 00:32:38.529 advance is how advanced was the  
NOTE Confidence: 0.78088886

00:32:38.529 --> 00:32:40.510 cancer at the time of the surgery,  
NOTE Confidence: 0.78088886

00:32:40.510 --> 00:32:41.270 generally speaking.  
NOTE Confidence: 0.78088886

00:32:41.270 --> 00:32:43.550 Stage one and stage two cancers  
NOTE Confidence: 0.78088886

00:32:43.550 --> 00:32:45.898 are what we call limited disease,  
NOTE Confidence: 0.78088886

00:32:45.900 --> 00:32:48.186 meaning that the cancer has been  
NOTE Confidence: 0.78088886

00:32:48.186 --> 00:32:50.111 discovered to be contained within  
NOTE Confidence: 0.78088886

00:32:50.111 --> 00:32:52.791 the walls of the walls of the large

NOTE Confidence: 0.78088886

00:32:52.791 --> 00:32:54.409 intestine stage three diseases

NOTE Confidence: 0.78088886

00:32:54.409 --> 00:32:56.424 in localized disease that is,

NOTE Confidence: 0.78088886

00:32:56.430 --> 00:32:58.747 the cancer that has spread into one

NOTE Confidence: 0.78088886

00:32:58.747 --> 00:33:01.689 or more of the adjacent lymph glands.

NOTE Confidence: 0.78088886

00:33:01.690 --> 00:33:03.570 And, as you probably know,

NOTE Confidence: 0.78088886

00:33:03.570 --> 00:33:06.167 Stage 4 means that the cancer has

NOTE Confidence: 0.78088886

00:33:06.167 --> 00:33:08.520 spread to distant organs under the

NOTE Confidence: 0.78088886

00:33:08.520 --> 00:33:11.810 terms that we will use is metastatic cancer.

NOTE Confidence: 0.78088886

00:33:11.810 --> 00:33:14.540 So I have to do surgeries done.

NOTE Confidence: 0.78088886

00:33:14.540 --> 00:33:16.680 The pathologist will assess what

NOTE Confidence: 0.78088886

00:33:16.680 --> 00:33:19.853 was taken out and provide us the

NOTE Confidence: 0.78088886

00:33:19.853 --> 00:33:22.228 clinician with the pathologic staging.

NOTE Confidence: 0.78088886

00:33:22.230 --> 00:33:23.766 Why do we care?

NOTE Confidence: 0.78088886

00:33:23.766 --> 00:33:24.150 Well,

NOTE Confidence: 0.78088886

00:33:24.150 --> 00:33:26.586 this is what we call the five

NOTE Confidence: 0.78088886

00:33:26.586 --> 00:33:28.370 year disease Free Survival,  
NOTE Confidence: 0.78088886

00:33:28.370 --> 00:33:31.298 a meaning that at the within the five  
NOTE Confidence: 0.78088886

00:33:31.298 --> 00:33:34.130 years after they have cured of surgery,  
NOTE Confidence: 0.78088886

00:33:34.130 --> 00:33:36.434 what is the chance that the  
NOTE Confidence: 0.78088886

00:33:36.434 --> 00:33:37.970 cancer will have recurrent?  
NOTE Confidence: 0.78088886

00:33:37.970 --> 00:33:41.050 So if a person has stage one cancer,  
NOTE Confidence: 0.78088886

00:33:41.050 --> 00:33:43.720 then the probability of the cancelled  
NOTE Confidence: 0.78088886

00:33:43.720 --> 00:33:46.837 not requiring in the in the in the  
NOTE Confidence: 0.78088886

00:33:46.837 --> 00:33:49.121 next five years is 30 high, 90%?  
NOTE Confidence: 0.78088886

00:33:49.121 --> 00:33:51.858 That's pretty good for stage two is.  
NOTE Confidence: 0.78088886

00:33:51.860 --> 00:33:53.540 Equally well, maybe not equally,  
NOTE Confidence: 0.78088886

00:33:53.540 --> 00:33:55.308 but it's still excellent,  
NOTE Confidence: 0.78088886

00:33:55.308 --> 00:33:56.634 say about 80%.  
NOTE Confidence: 0.78088886

00:33:56.640 --> 00:33:59.286 The problem is stage three disease where  
NOTE Confidence: 0.78088886

00:33:59.286 --> 00:34:01.278 disease free survival is about 50%.  
NOTE Confidence: 0.78088886

00:34:01.280 --> 00:34:03.536 So another way of putting it is that

NOTE Confidence: 0.78088886

00:34:03.536 --> 00:34:06.451 if a person has had a presumed curative

NOTE Confidence: 0.78088886

00:34:06.451 --> 00:34:08.849 surgery and you have stage three

NOTE Confidence: 0.78088886

00:34:08.849 --> 00:34:11.279 disease within the next five years,

NOTE Confidence: 0.78088886

00:34:11.280 --> 00:34:13.884 there's a 50% chance that the cancer

NOTE Confidence: 0.78088886

00:34:13.884 --> 00:34:17.137 may may be discovered to have return.

NOTE Confidence: 0.78088886

00:34:17.140 --> 00:34:19.576 So what can we do about that?

NOTE Confidence: 0.78088886

00:34:19.580 --> 00:34:22.051 Is there something we can do to

NOTE Confidence: 0.78088886

00:34:22.051 --> 00:34:24.182 reduce that likelihood and that is

NOTE Confidence: 0.78088886

00:34:24.182 --> 00:34:26.186 where agile and therapies come in,

NOTE Confidence: 0.78088886

00:34:26.190 --> 00:34:28.619 so adamant therapy, as the name implies,

NOTE Confidence: 0.78088886

00:34:28.620 --> 00:34:30.666 means a treatment that we give

NOTE Confidence: 0.78088886

00:34:30.666 --> 00:34:32.799 to help a person's cure rate.

NOTE Confidence: 0.78088886

00:34:32.800 --> 00:34:36.896 So to reduce the chance of a relapse.

NOTE Confidence: 0.78088886

00:34:36.900 --> 00:34:39.860 In case of colon cancer that the the

NOTE Confidence: 0.78088886

00:34:39.860 --> 00:34:42.706 advent therapy that we use is chemotherapy.

NOTE Confidence: 0.78088886

00:34:42.710 --> 00:34:44.230 So what is chemotherapy,  
NOTE Confidence: 0.78088886

00:34:44.230 --> 00:34:46.130 chemotherapy or any and all  
NOTE Confidence: 0.78088886

00:34:46.130 --> 00:34:48.118 medications that destroy cancer cells?  
NOTE Confidence: 0.78088886

00:34:48.120 --> 00:34:50.712 And I think Doctor Boyle probably  
NOTE Confidence: 0.78088886

00:34:50.712 --> 00:34:53.640 going to more detail about different  
NOTE Confidence: 0.78088886

00:34:53.640 --> 00:34:55.880 forms of chemotherapy now.  
NOTE Confidence: 0.78088886

00:34:55.880 --> 00:34:58.548 Large chemotherapy often target  
NOTE Confidence: 0.78088886

00:34:58.548 --> 00:35:00.549 rapidly growing cells.  
NOTE Confidence: 0.78088886

00:35:00.550 --> 00:35:02.585 They are typically given either  
NOTE Confidence: 0.78088886

00:35:02.585 --> 00:35:04.620 intravenously or you take it  
NOTE Confidence: 0.78088886

00:35:04.690 --> 00:35:05.980 as a pill by mouth,  
NOTE Confidence: 0.78088886

00:35:05.980 --> 00:35:07.820 and as such there affect  
NOTE Confidence: 0.78088886

00:35:07.820 --> 00:35:09.660 our systemic for both good  
NOTE Confidence: 0.84554595

00:35:09.741 --> 00:35:12.130 and bad. And when I'm by that,  
NOTE Confidence: 0.84554595

00:35:12.130 --> 00:35:15.010 what I mean is that unlike surgery or  
NOTE Confidence: 0.84554595

00:35:15.010 --> 00:35:16.867 radiation therapy that are targeted

NOTE Confidence: 0.84554595

00:35:16.867 --> 00:35:19.003 to particular part of the body,

NOTE Confidence: 0.84554595

00:35:19.010 --> 00:35:21.150 chemotherapy affects the entire body

NOTE Confidence: 0.84554595

00:35:21.150 --> 00:35:24.580 and therefore if a person were to have

NOTE Confidence: 0.84554595

00:35:24.580 --> 00:35:27.022 adverse effects than the adverse affect

NOTE Confidence: 0.84554595

00:35:27.022 --> 00:35:29.636 entire affect our entire body as well.

NOTE Confidence: 0.84554595

00:35:29.640 --> 00:35:32.203 So who gets argument therapy? What?

NOTE Confidence: 0.84554595

00:35:32.203 --> 00:35:34.981 What are the different types of

NOTE Confidence: 0.84554595

00:35:34.981 --> 00:35:37.617 treatment and when do you get it?

NOTE Confidence: 0.84554595

00:35:37.620 --> 00:35:40.940 So as shown earlier?

NOTE Confidence: 0.84554595

00:35:40.940 --> 00:35:43.106 Stage 3 colon cancer patients have

NOTE Confidence: 0.84554595

00:35:43.106 --> 00:35:46.038 a high risk of recurrence and they

NOTE Confidence: 0.84554595

00:35:46.038 --> 00:35:48.388 are again technical count ones.

NOTE Confidence: 0.84554595

00:35:48.390 --> 00:35:50.460 Overall health are often advised

NOTE Confidence: 0.84554595

00:35:50.460 --> 00:35:52.116 to receive adjuvant chemotherapy.

NOTE Confidence: 0.84554595

00:35:52.120 --> 00:35:54.598 Now, besides giving us a clinical,

NOTE Confidence: 0.84554595



00:35:54.600 --> 00:35:57.135 staging pathologist can also provide  
NOTE Confidence: 0.84554595

00:35:57.135 --> 00:35:59.163 additional information in the  
NOTE Confidence: 0.84554595

00:35:59.163 --> 00:36:01.457 information that will give us ideas  
NOTE Confidence: 0.84554595

00:36:01.457 --> 00:36:03.625 to whether a certain patients with  
NOTE Confidence: 0.84554595

00:36:03.625 --> 00:36:05.510 stage two cancer's actually have  
NOTE Confidence: 0.84554595

00:36:05.510 --> 00:36:08.403 high risk of relapse and in select  
NOTE Confidence: 0.84554595

00:36:08.403 --> 00:36:10.708 patients with high risk features.  
NOTE Confidence: 0.84554595

00:36:10.710 --> 00:36:13.062 We also can't cancel them and  
NOTE Confidence: 0.84554595

00:36:13.062 --> 00:36:15.157 sometimes advise them to receive  
NOTE Confidence: 0.84554595

00:36:15.157 --> 00:36:17.397 as even chemotherapy as well.  
NOTE Confidence: 0.84554595

00:36:17.400 --> 00:36:20.020 The three most commonly used  
NOTE Confidence: 0.84554595

00:36:20.020 --> 00:36:23.030 as you can chemotherapy R5 FU,  
NOTE Confidence: 0.84554595

00:36:23.030 --> 00:36:24.425 Xeloda an oxaliplatin,  
NOTE Confidence: 0.84554595

00:36:24.425 --> 00:36:26.750 and these medications are often  
NOTE Confidence: 0.84554595

00:36:26.750 --> 00:36:28.660 used in combination,  
NOTE Confidence: 0.84554595

00:36:28.660 --> 00:36:33.175 giving us a regiment of and going

NOTE Confidence: 0.84554595

00:36:33.175 --> 00:36:37.808 by the acronym of FOLFOX or K Box.

NOTE Confidence: 0.84554595

00:36:37.810 --> 00:36:40.610 When do we start the as you can

NOTE Confidence: 0.84554595

00:36:40.610 --> 00:36:42.809 chemotherapy well as soon as possible.

NOTE Confidence: 0.84554595

00:36:42.810 --> 00:36:44.952 Soon as a person has recovered

NOTE Confidence: 0.84554595

00:36:44.952 --> 00:36:46.380 at recovered and healed.

NOTE Confidence: 0.84554595

00:36:46.380 --> 00:36:47.824 Actually from the surgery,

NOTE Confidence: 0.84554595

00:36:47.824 --> 00:36:49.629 there are some data indicating

NOTE Confidence: 0.84554595

00:36:49.629 --> 00:36:51.293 that delaying the adjutant therapy

NOTE Confidence: 0.84554595

00:36:51.293 --> 00:36:54.025 beyond 6 to 8 weeks may render the

NOTE Confidence: 0.84554595

00:36:54.025 --> 00:36:55.657 Angevin therapy less effective,

NOTE Confidence: 0.84554595

00:36:55.660 --> 00:36:58.459 so we do want to get going on the

NOTE Confidence: 0.84554595

00:36:58.459 --> 00:37:00.660 treatment sooner rather than later.

NOTE Confidence: 0.7670193

00:37:03.090 --> 00:37:05.166 So what is new regimen therapy?

NOTE Confidence: 0.7670193

00:37:05.170 --> 00:37:06.900 Sort of Columbus in Word.

NOTE Confidence: 0.7670193

00:37:06.900 --> 00:37:09.315 And you know, from a linguistic perspective,

NOTE Confidence: 0.7670193

00:37:09.320 --> 00:37:12.088 it doesn't really make a lot of sense,  
NOTE Confidence: 0.7670193

00:37:12.090 --> 00:37:13.820 but knew as you can.  
NOTE Confidence: 0.7670193

00:37:13.820 --> 00:37:15.806 Therapy are are treatments that are  
NOTE Confidence: 0.7670193

00:37:15.806 --> 00:37:17.620 given before the curative surgery.  
NOTE Confidence: 0.7670193

00:37:17.620 --> 00:37:19.696 It is often give we radiation,  
NOTE Confidence: 0.7670193

00:37:19.700 --> 00:37:21.430 but near as even chemotherapy  
NOTE Confidence: 0.7670193

00:37:21.430 --> 00:37:23.160 can be given by itself.  
NOTE Confidence: 0.7670193

00:37:23.160 --> 00:37:25.230 The purpose of the new regimen,  
NOTE Confidence: 0.7670193

00:37:25.230 --> 00:37:27.998 therapy or similar to the Azure and therapy,  
NOTE Confidence: 0.7670193

00:37:28.000 --> 00:37:31.745 that is to say that we want to, we will we.  
NOTE Confidence: 0.7670193

00:37:31.745 --> 00:37:33.695 Give a treatment in hope of  
NOTE Confidence: 0.7670193

00:37:33.695 --> 00:37:35.449 reducing the recurrence rate.  
NOTE Confidence: 0.7670193

00:37:35.450 --> 00:37:38.558 It is often used in rectal cancer  
NOTE Confidence: 0.7670193

00:37:38.558 --> 00:37:41.259 zanin select colon cancer as well.  
NOTE Confidence: 0.7670193

00:37:41.260 --> 00:37:43.192 Doctor Mcwhorter has done a wonderful  
NOTE Confidence: 0.7670193

00:37:43.192 --> 00:37:45.275 job describing to you the difference

NOTE Confidence: 0.7670193

00:37:45.275 --> 00:37:47.483 between rectal cancer and colon cancer.

NOTE Confidence: 0.7670193

00:37:47.490 --> 00:37:49.220 So as he had indicated,

NOTE Confidence: 0.7670193

00:37:49.220 --> 00:37:51.988 when a person is diagnosed with very early,

NOTE Confidence: 0.7670193

00:37:51.990 --> 00:37:54.750 that is to say, stage one rectal cancer.

NOTE Confidence: 0.7670193

00:37:54.750 --> 00:37:56.826 The treatment of choice is a

NOTE Confidence: 0.7670193

00:37:56.826 --> 00:37:58.710 proceeding with surgery, so again,

NOTE Confidence: 0.7670193

00:37:58.710 --> 00:38:01.230 I'm talking about clinical staging here.

NOTE Confidence: 0.7670193

00:38:01.230 --> 00:38:04.310 So when a person is found to have

NOTE Confidence: 0.7670193

00:38:04.310 --> 00:38:07.339 clinical stage two or stage three disease,

NOTE Confidence: 0.7670193

00:38:07.340 --> 00:38:09.365 and we determined that they

NOTE Confidence: 0.7670193

00:38:09.365 --> 00:38:10.175 threw presurgical,

NOTE Confidence: 0.7670193

00:38:10.180 --> 00:38:11.792 CT scan or MRI,

NOTE Confidence: 0.7670193

00:38:11.792 --> 00:38:14.704 they are very helpful in telling us

NOTE Confidence: 0.7670193

00:38:14.704 --> 00:38:17.920 whether a person is as a clinical stage,

NOTE Confidence: 0.7670193

00:38:17.920 --> 00:38:20.769 one stage two or stage three disease.

NOTE Confidence: 0.7670193

00:38:20.770 --> 00:38:22.710 So those individuals with clinical  
NOTE Confidence: 0.7670193

00:38:22.710 --> 00:38:25.240 stage two and stage three disease,  
NOTE Confidence: 0.7670193

00:38:25.240 --> 00:38:28.848 we recommend neoadjuvant therapy.  
NOTE Confidence: 0.7670193

00:38:28.850 --> 00:38:31.740 As Doctor Mcwhorter had indicated,  
NOTE Confidence: 0.7670193

00:38:31.740 --> 00:38:35.740 there are no one universally  
NOTE Confidence: 0.7670193

00:38:35.740 --> 00:38:37.340 accepted regimen.  
NOTE Confidence: 0.7670193

00:38:37.340 --> 00:38:39.715 The most commonly used treatment  
NOTE Confidence: 0.7670193

00:38:39.715 --> 00:38:41.615 modality consists of combination  
NOTE Confidence: 0.7670193

00:38:41.615 --> 00:38:43.895 of radiation therapy with either  
NOTE Confidence: 0.7670193

00:38:43.895 --> 00:38:46.493 5F U chemotherapy which is given  
NOTE Confidence: 0.7670193

00:38:46.566 --> 00:38:48.731 intravenously or an oral chemotherapy  
NOTE Confidence: 0.7670193

00:38:48.731 --> 00:38:51.352 which is oral version of fire.  
NOTE Confidence: 0.7670193

00:38:51.352 --> 00:38:53.160 If you called Xeloda,  
NOTE Confidence: 0.7670193

00:38:53.160 --> 00:38:56.814 these two chemo treatments are often  
NOTE Confidence: 0.7670193

00:38:56.814 --> 00:39:00.290 administered roughly about 5 1/2 weeks.  
NOTE Confidence: 0.7670193

00:39:00.290 --> 00:39:01.054 Generally speaking,

NOTE Confidence: 0.7670193

00:39:01.054 --> 00:39:04.110 after this five and a half week of

NOTE Confidence: 0.7670193

00:39:04.186 --> 00:39:07.018 preoperative radiation and chemotherapy,

NOTE Confidence: 0.7670193

00:39:07.020 --> 00:39:11.017 we wait about 8 weeks before a

NOTE Confidence: 0.7670193

00:39:11.017 --> 00:39:13.760 person proceed with surgery.

NOTE Confidence: 0.7670193

00:39:13.760 --> 00:39:16.262 At times when we give this

NOTE Confidence: 0.7670193

00:39:16.262 --> 00:39:17.513 radiation and chemotherapy,

NOTE Confidence: 0.7670193

00:39:17.520 --> 00:39:20.028 followed by several months of chemotherapy,

NOTE Confidence: 0.7670193

00:39:20.030 --> 00:39:22.538 that is called total neoadjuvant therapy.

NOTE Confidence: 0.7670193

00:39:22.540 --> 00:39:25.543 We typically try to have all of

NOTE Confidence: 0.7670193

00:39:25.543 --> 00:39:27.816 our pre surgical treatment wrapped

NOTE Confidence: 0.7670193

00:39:27.816 --> 00:39:31.392 up in less than a six month less

NOTE Confidence: 0.7670193

00:39:31.484 --> 00:39:34.700 than six months before a patient

NOTE Confidence: 0.7670193

00:39:34.700 --> 00:39:36.844 could proceed with surgery.

NOTE Confidence: 0.7670193

00:39:36.850 --> 00:39:39.076 This is a little treatment algorithm.

NOTE Confidence: 0.7670193

00:39:39.080 --> 00:39:42.419 I know this is a very simplified a picture,

NOTE Confidence: 0.7670193

00:39:42.420 --> 00:39:44.640 so when a person is diagnosed  
NOTE Confidence: 0.7670193

00:39:44.640 --> 00:39:45.750 with colorectal cancer,  
NOTE Confidence: 0.7670193

00:39:45.750 --> 00:39:48.347 if a person has say stage one  
NOTE Confidence: 0.7670193

00:39:48.347 --> 00:39:50.202 clinical excuse me, stage one,  
NOTE Confidence: 0.7670193

00:39:50.202 --> 00:39:52.428 stage two or three colon cancer.  
NOTE Confidence: 0.7670193

00:39:52.430 --> 00:39:54.240 They proceed to surgery similarly  
NOTE Confidence: 0.7670193

00:39:54.240 --> 00:39:56.510 for personal stage one rectal cancer.  
NOTE Confidence: 0.7670193

00:39:56.510 --> 00:39:58.322 They proceed with surgery.  
NOTE Confidence: 0.7670193

00:39:58.322 --> 00:40:01.040 The pathologist will assess a spell.  
NOTE Confidence: 0.7670193

00:40:01.040 --> 00:40:03.290 Provide us with the pathologic  
NOTE Confidence: 0.7670193

00:40:03.290 --> 00:40:05.999 staging stage one disease in case  
NOTE Confidence: 0.7670193

00:40:05.999 --> 00:40:08.617 of a patient with stage one disease  
NOTE Confidence: 0.7670193

00:40:08.617 --> 00:40:11.318 and they go into the observation  
NOTE Confidence: 0.7670193

00:40:11.318 --> 00:40:13.190 of the surveillance mode.  
NOTE Confidence: 0.7670193

00:40:13.190 --> 00:40:15.355 Stage two cancer's with with  
NOTE Confidence: 0.7670193

00:40:15.355 --> 00:40:16.654 favorable features again,

NOTE Confidence: 0.7670193

00:40:16.660 --> 00:40:19.114 will go into the surveillance of

NOTE Confidence: 0.7670193

00:40:19.114 --> 00:40:21.297 patients with stage two cancers

NOTE Confidence: 0.7670193

00:40:21.297 --> 00:40:23.169 with high risk features,

NOTE Confidence: 0.7670193

00:40:23.170 --> 00:40:26.378 as well as those with State Street are

NOTE Confidence: 0.7670193

00:40:26.378 --> 00:40:28.819 counseled about as even chemotherapy.

NOTE Confidence: 0.8437683

00:40:31.460 --> 00:40:34.834 The clinical stage two and stage three

NOTE Confidence: 0.8437683

00:40:34.834 --> 00:40:38.060 rectal cancer patients are advised to

NOTE Confidence: 0.8437683

00:40:38.060 --> 00:40:40.880 receive pre operative neoadjuvant therapy.

NOTE Confidence: 0.8437683

00:40:40.880 --> 00:40:43.415 Or simplified said new item

NOTE Confidence: 0.8437683

00:40:43.415 --> 00:40:45.443 and radiation and chemo.

NOTE Confidence: 0.8437683

00:40:45.450 --> 00:40:47.879 By surgery and again we have surgical

NOTE Confidence: 0.8437683

00:40:47.879 --> 00:40:50.454 staging and based on the surgical features

NOTE Confidence: 0.8437683

00:40:50.454 --> 00:40:52.650 some patients are told to undergo

NOTE Confidence: 0.8437683

00:40:52.720 --> 00:40:55.072 surveillance and some patients will be

NOTE Confidence: 0.8437683

00:40:55.072 --> 00:40:59.349 counseled to receive as if in therapy.

NOTE Confidence: 0.8437683



00:40:59.350 --> 00:41:01.882 So follow up and surveillance consists

NOTE Confidence: 0.8437683

00:41:01.882 --> 00:41:04.550 of blood test and examination.

NOTE Confidence: 0.8437683

00:41:04.550 --> 00:41:07.322 In the beginning every few months

NOTE Confidence: 0.8437683

00:41:07.322 --> 00:41:09.735 and perhaps the interval becoming

NOTE Confidence: 0.8437683

00:41:09.735 --> 00:41:11.647 longer as years pass.

NOTE Confidence: 0.8437683

00:41:11.650 --> 00:41:14.010 For some few select patients.

NOTE Confidence: 0.8437683

00:41:14.010 --> 00:41:16.848 We also recommend CT scan mass.

NOTE Confidence: 0.8437683

00:41:16.850 --> 00:41:18.742 Doctor Mcwhorter indicated a

NOTE Confidence: 0.8437683

00:41:18.742 --> 00:41:20.634 screening colonoscopy is crucial.

NOTE Confidence: 0.8437683

00:41:20.640 --> 00:41:23.015 We recommend colonoscopy within a

NOTE Confidence: 0.8437683

00:41:23.015 --> 00:41:26.395 year of the surgery and we follow

NOTE Confidence: 0.8437683

00:41:26.395 --> 00:41:29.143 our patients for about five years.

NOTE Confidence: 0.8191002

00:41:31.590 --> 00:41:33.220 And that is the measurement,

NOTE Confidence: 0.8191002

00:41:33.220 --> 00:41:34.192 and new regimen.

NOTE Confidence: 0.8191002

00:41:34.192 --> 00:41:35.488 Therapy in a nutshell.

NOTE Confidence: 0.8191002

00:41:35.490 --> 00:41:37.380 And then I will let Doctor Boy

NOTE Confidence: 0.8191002

00:41:37.380 --> 00:41:39.409 Carry on on the management of

NOTE Confidence: 0.8191002

00:41:39.409 --> 00:41:41.334 advance or stage four cancers.

NOTE Confidence: 0.8583353

00:41:43.100 --> 00:41:45.550 Thanks so much Doctor Lee.

NOTE Confidence: 0.8583353

00:41:45.550 --> 00:41:49.085 Doctor Boyd, it's nice to see you.

NOTE Confidence: 0.8583353

00:41:49.090 --> 00:41:51.334 We will let you be their

NOTE Confidence: 0.8583353

00:41:51.334 --> 00:41:52.830 last speaker this evening.

NOTE Confidence: 0.8583353

00:41:52.830 --> 00:41:54.700 You'll need to unmute and

NOTE Confidence: 0.8583353

00:41:54.700 --> 00:41:56.196 then share your screen.

NOTE Confidence: 0.85622114

00:42:00.360 --> 00:42:02.970 Hopefully yeah, that worked good. Now

NOTE Confidence: 0.85622114

00:42:02.970 --> 00:42:06.708 I need to get my presentation.

NOTE Confidence: 0.85622114

00:42:06.710 --> 00:42:09.744 Nothing like being an old

NOTE Confidence: 0.85622114

00:42:09.744 --> 00:42:12.268 man with new technology.

NOTE Confidence: 0.85622114

00:42:12.270 --> 00:42:16.310 We see this at show up now. Sorry.

NOTE Confidence: 0.8141336

00:42:39.640 --> 00:42:41.810 But perhaps I can so Doctor Boyd,

NOTE Confidence: 0.8141336

00:42:41.810 --> 00:42:43.628 maybe Emily can assist you offline

NOTE Confidence: 0.8141336

00:42:43.628 --> 00:42:46.142 and then I'm happy to maybe ask our  
NOTE Confidence: 0.8141336

00:42:46.142 --> 00:42:47.996 other panelists a few questions while  
NOTE Confidence: 0.8141336

00:42:48.059 --> 00:42:50.180 we're helping you get your screen up.  
NOTE Confidence: 0.8141336

00:42:50.180 --> 00:42:51.730 OK, yeah, great, that's OK.  
NOTE Confidence: 0.8141336

00:42:51.730 --> 00:42:54.082 No worries. Maybe if you can go on  
NOTE Confidence: 0.8141336

00:42:54.082 --> 00:42:56.379 mute for a moment and then Emily,  
NOTE Confidence: 0.8141336

00:42:56.380 --> 00:42:57.620 and maybe she will.  
NOTE Confidence: 0.8494072

00:43:00.340 --> 00:43:02.356 Alright great so we have had  
NOTE Confidence: 0.8494072

00:43:02.356 --> 00:43:04.212 a few questions come through  
NOTE Confidence: 0.8494072

00:43:04.212 --> 00:43:06.387 the chat and Doctor Mcwhorter.  
NOTE Confidence: 0.8494072

00:43:06.390 --> 00:43:08.658 I know that you answered one,  
NOTE Confidence: 0.8494072

00:43:08.660 --> 00:43:11.180 but maybe we can just talk a little  
NOTE Confidence: 0.8494072

00:43:11.180 --> 00:43:13.560 bit about the question that came  
NOTE Confidence: 0.8494072

00:43:13.560 --> 00:43:15.660 through was rectal cancer was  
NOTE Confidence: 0.8494072

00:43:15.660 --> 00:43:18.075 removed with clean borders and 30  
NOTE Confidence: 0.8494072

00:43:18.075 --> 00:43:20.281 negative lymph nodes and this is

NOTE Confidence: 0.8494072

00:43:20.281 --> 00:43:22.529 sort of a combo of a surgical and

NOTE Confidence: 0.8494072

00:43:22.529 --> 00:43:24.577 oncology question is is chemotherapy

NOTE Confidence: 0.8494072

00:43:24.577 --> 00:43:26.702 necessary necessary after the surgery

NOTE Confidence: 0.8494072

00:43:26.702 --> 00:43:29.069 to prevent for future recurrence?

NOTE Confidence: 0.8494072

00:43:29.070 --> 00:43:32.326 Maybe you can talk a little bit about.

NOTE Confidence: 0.8494072

00:43:32.330 --> 00:43:34.834 Why do you take so many lymph nodes?

NOTE Confidence: 0.8494072

00:43:34.840 --> 00:43:37.666 Is that a normal part of a rectal surgery?

NOTE Confidence: 0.8494072

00:43:37.670 --> 00:43:39.548 What? How does that help you?

NOTE Confidence: 0.8494072

00:43:39.550 --> 00:43:41.534 And and then maybe even Doctor Lee and

NOTE Confidence: 0.8494072

00:43:41.534 --> 00:43:43.948 I can comment someone the chemotherapy.

NOTE Confidence: 0.83761686

00:43:45.470 --> 00:43:48.011 Yeah, in the interest of getting all

NOTE Confidence: 0.83761686

00:43:48.011 --> 00:43:50.790 of the cancer out, we want to take

NOTE Confidence: 0.83761686

00:43:50.790 --> 00:43:53.250 out both where the cancer has grown

NOTE Confidence: 0.83761686

00:43:53.250 --> 00:43:56.071 into the intestinal wall but also the

NOTE Confidence: 0.83761686

00:43:56.071 --> 00:43:58.938 lymph nodes that it can spread into an.

NOTE Confidence: 0.83761686

00:43:58.940 --> 00:44:01.844 So in the interest of not leaving anything  
NOTE Confidence: 0.83761686

00:44:01.844 --> 00:44:04.172 behind, we do harvest as many lymph  
NOTE Confidence: 0.83761686

00:44:04.172 --> 00:44:07.307 nodes as we can for a cancer operation,  
NOTE Confidence: 0.83761686

00:44:07.310 --> 00:44:09.872 which is different from if I take  
NOTE Confidence: 0.83761686

00:44:09.872 --> 00:44:11.976 out somebody's colon for, say,  
NOTE Confidence: 0.83761686

00:44:11.976 --> 00:44:14.640 diverticulitis or Crohn's disease.  
NOTE Confidence: 0.83761686

00:44:14.640 --> 00:44:16.950 That's not a disease that spreads  
NOTE Confidence: 0.83761686

00:44:16.950 --> 00:44:20.179 around the body so so we do consciously  
NOTE Confidence: 0.83761686

00:44:20.179 --> 00:44:21.385 take lymph nodes.  
NOTE Confidence: 0.83761686

00:44:21.390 --> 00:44:23.766 People don't miss them. They don't.  
NOTE Confidence: 0.83761686

00:44:23.770 --> 00:44:26.146 They're not going to, you know.  
NOTE Confidence: 0.83761686

00:44:26.150 --> 00:44:28.140 People ask that question sometimes,  
NOTE Confidence: 0.83761686

00:44:28.140 --> 00:44:30.919 but you're not going to miss them,  
NOTE Confidence: 0.83761686

00:44:30.920 --> 00:44:33.685 and so it's in the interest of  
NOTE Confidence: 0.83761686

00:44:33.685 --> 00:44:35.330 removing every everything where  
NOTE Confidence: 0.83761686

00:44:35.330 --> 00:44:37.270 the cancer may have spread.

NOTE Confidence: 0.83761686

00:44:37.270 --> 00:44:41.424 Locali the reason that we do it and

NOTE Confidence: 0.83761686

00:44:41.424 --> 00:44:43.529 then the pathologist tells us if the

NOTE Confidence: 0.83761686

00:44:43.529 --> 00:44:45.281 cancer is spread into those lymph

NOTE Confidence: 0.83761686

00:44:45.343 --> 00:44:47.557 nodes and the other really important

NOTE Confidence: 0.83761686

00:44:47.557 --> 00:44:49.626 piece of information that we look

NOTE Confidence: 0.83761686

00:44:49.626 --> 00:44:51.970 to is how deeply into the wall of

NOTE Confidence: 0.83761686

00:44:52.044 --> 00:44:54.186 the colon did the cancer grow.

NOTE Confidence: 0.83761686

00:44:54.190 --> 00:44:56.494 I think those are the two main pieces

NOTE Confidence: 0.83761686

00:44:56.494 --> 00:44:58.058 of information that the oncologist

NOTE Confidence: 0.83761686

00:44:58.058 --> 00:45:00.228 then uses to determine should you or

NOTE Confidence: 0.83761686

00:45:00.287 --> 00:45:02.555 should you not have agement chemotherapy?

NOTE Confidence: 0.8453295

00:45:04.370 --> 00:45:05.880 Great thank you Doctor Lee.

NOTE Confidence: 0.8453295

00:45:05.880 --> 00:45:08.280 Do you want to add some about you?

NOTE Confidence: 0.8453295

00:45:08.280 --> 00:45:11.180 Know lymph node negative?

NOTE Confidence: 0.8453295

00:45:11.180 --> 00:45:13.628 It looks like we may have Doctor Boydan.

NOTE Confidence: 0.914085

00:45:15.640 --> 00:45:19.076 Alright. And then Doctor Boy,  
NOTE Confidence: 0.914085

00:45:19.076 --> 00:45:20.546 you'll just need to touch.  
NOTE Confidence: 0.914085

00:45:20.550 --> 00:45:22.020 There's a slide presentation button.  
NOTE Confidence: 0.914085

00:45:22.020 --> 00:45:24.372 Alright, let me let me go so we  
NOTE Confidence: 0.914085

00:45:24.372 --> 00:45:26.718 can just we can just go from here.  
NOTE Confidence: 0.914085

00:45:26.720 --> 00:45:27.599 That's fine too.  
NOTE Confidence: 0.8414882

00:45:27.600 --> 00:45:29.802 Yeah, sorry bout my technological skills  
NOTE Confidence: 0.8414882

00:45:29.802 --> 00:45:32.838 I do know how to drive a car though.  
NOTE Confidence: 0.8414882

00:45:32.840 --> 00:45:36.432 That I learned. So I'm going to  
NOTE Confidence: 0.8414882

00:45:36.432 --> 00:45:38.854 talk about the last part is going  
NOTE Confidence: 0.8414882

00:45:38.854 --> 00:45:41.846 to be about how we deal with the  
NOTE Confidence: 0.8414882

00:45:41.846 --> 00:45:44.358 complexity of metastatic colon cancer.  
NOTE Confidence: 0.8414882

00:45:44.360 --> 00:45:46.285 We've heard about early stage  
NOTE Confidence: 0.8414882

00:45:46.285 --> 00:45:47.825 and surgery attachment therapy,  
NOTE Confidence: 0.8414882

00:45:47.830 --> 00:45:49.138 but really, critically,  
NOTE Confidence: 0.8414882

00:45:49.138 --> 00:45:51.754 a substantial number of colon cancer

NOTE Confidence: 0.8414882

00:45:51.754 --> 00:45:53.970 patients up to 60% end up developing

NOTE Confidence: 0.8414882

00:45:53.970 --> 00:45:55.490 metastatic cancer within their

NOTE Confidence: 0.8414882

00:45:55.490 --> 00:45:57.839 period of time with their disease.

NOTE Confidence: 0.8414882

00:45:57.840 --> 00:45:59.570 Majority of these actually will

NOTE Confidence: 0.8414882

00:45:59.570 --> 00:46:02.070 turn out to be hepatic metastasis.

NOTE Confidence: 0.8414882

00:46:02.070 --> 00:46:05.269 I'll show you why most will develop.

NOTE Confidence: 0.8414882

00:46:05.270 --> 00:46:08.091 Most of the cancers that do metastasize

NOTE Confidence: 0.8414882

00:46:08.091 --> 00:46:10.340 often occur following successful or did

NOTE Confidence: 0.8414882

00:46:10.340 --> 00:46:12.982 surgery and may or may not have had

NOTE Confidence: 0.8414882

00:46:12.982 --> 00:46:15.446 with therapy and then at a later time.

NOTE Confidence: 0.8414882

00:46:15.450 --> 00:46:16.738 Development is static disease,

NOTE Confidence: 0.8414882

00:46:16.738 --> 00:46:19.104 but up to 1/3 of patients will

NOTE Confidence: 0.8414882

00:46:19.104 --> 00:46:20.600 actually develop metastatic cancer

NOTE Confidence: 0.8414882

00:46:20.600 --> 00:46:22.470 at the time of diagnosis.

NOTE Confidence: 0.8414882

00:46:22.470 --> 00:46:24.225 The goals in general for

NOTE Confidence: 0.8414882



00:46:24.225 --> 00:46:25.278 treating metastatic cancer,  
NOTE Confidence: 0.8414882

00:46:25.280 --> 00:46:27.340 palliative because obviously for the  
NOTE Confidence: 0.8414882

00:46:27.340 --> 00:46:30.407 most part we tend to think of this  
NOTE Confidence: 0.8414882

00:46:30.407 --> 00:46:33.378 is not is not curative but we try to  
NOTE Confidence: 0.8414882

00:46:33.378 --> 00:46:35.905 improve quality of life and goals are.  
NOTE Confidence: 0.8414882

00:46:35.910 --> 00:46:37.776 Clearly to have prolong survival as  
NOTE Confidence: 0.8414882

00:46:37.776 --> 00:46:40.294 best we can and identify the small  
NOTE Confidence: 0.8414882

00:46:40.294 --> 00:46:42.712 number of patients who actually are  
NOTE Confidence: 0.8414882

00:46:42.712 --> 00:46:44.415 potentially curable through surgical  
NOTE Confidence: 0.8414882

00:46:44.415 --> 00:46:46.893 approaches such as metastatic to me,  
NOTE Confidence: 0.8414882

00:46:46.900 --> 00:46:49.180 particularly liver Mets and Lung Mets,  
NOTE Confidence: 0.8414882

00:46:49.180 --> 00:46:52.540 which may actually be curable.  
NOTE Confidence: 0.8414882

00:46:52.540 --> 00:46:53.804 Just as an example,  
NOTE Confidence: 0.8414882

00:46:53.804 --> 00:46:56.467 one of the ways to understand how this  
NOTE Confidence: 0.8414882

00:46:56.467 --> 00:46:59.251 spreads is that the colon is somewhat unique.  
NOTE Confidence: 0.8414882

00:46:59.260 --> 00:47:02.275 You see the left and the right colon there,

NOTE Confidence: 0.8414882

00:47:02.280 --> 00:47:04.618 with the blue showing you the blood

NOTE Confidence: 0.8414882

00:47:04.618 --> 00:47:06.649 flow going right into the liver,

NOTE Confidence: 0.8414882

00:47:06.650 --> 00:47:08.594 and that in part explains that

NOTE Confidence: 0.8414882

00:47:08.594 --> 00:47:09.890 disproportionately high level of

NOTE Confidence: 0.8414882

00:47:09.941 --> 00:47:11.686 metastatic disease into the liver.

NOTE Confidence: 0.8414882

00:47:11.690 --> 00:47:12.020 However,

NOTE Confidence: 0.8414882

00:47:12.020 --> 00:47:14.000 the lymphatics and green will also

NOTE Confidence: 0.8414882

00:47:14.000 --> 00:47:16.394 take it beyond the liver into the

NOTE Confidence: 0.8414882

00:47:16.394 --> 00:47:18.410 systemic circulation and to other areas,

NOTE Confidence: 0.8414882

00:47:18.410 --> 00:47:20.503 and so it's not unusual overtime to

NOTE Confidence: 0.8414882

00:47:20.503 --> 00:47:22.624 go from having liver metastasis to

NOTE Confidence: 0.8414882

00:47:22.624 --> 00:47:24.564 even brain Mets lung metastasis.

NOTE Confidence: 0.8414882

00:47:24.570 --> 00:47:25.204 Info info.

NOTE Confidence: 0.8414882

00:47:25.204 --> 00:47:27.106 The principles of how we treat

NOTE Confidence: 0.8414882

00:47:27.106 --> 00:47:29.713 this go back to what Doctor Lee

NOTE Confidence: 0.8414882

00:47:29.713 --> 00:47:31.237 was originally talking about.

NOTE Confidence: 0.8414882

00:47:31.240 --> 00:47:34.224 With that red therapy, but it's beyond that.

NOTE Confidence: 0.8414882

00:47:34.230 --> 00:47:35.554 Because in metastatic cancer,

NOTE Confidence: 0.8414882

00:47:35.554 --> 00:47:38.204 the goal is to understand we now look

NOTE Confidence: 0.8414882

00:47:38.204 --> 00:47:40.318 at tumor Biology and we looked at

NOTE Confidence: 0.8414882

00:47:40.318 --> 00:47:42.509 biomarkers that will alter our treatment

NOTE Confidence: 0.8414882

00:47:42.509 --> 00:47:44.334 decisions very critically and very

NOTE Confidence: 0.8414882

00:47:44.340 --> 00:47:46.699 often in the first line of therapy,

NOTE Confidence: 0.8414882

00:47:46.700 --> 00:47:47.696 chemotherapy remains central,

NOTE Confidence: 0.8414882

00:47:47.696 --> 00:47:50.020 but we also often will add biological

NOTE Confidence: 0.8414882

00:47:50.079 --> 00:47:51.419 agents to improve outcomes.

NOTE Confidence: 0.8414882

00:47:51.420 --> 00:47:53.436 One of the concepts we all are

NOTE Confidence: 0.8414882

00:47:53.436 --> 00:47:55.518 dealing with as physicians is what

NOTE Confidence: 0.8414882

00:47:55.518 --> 00:47:57.816 we call sequential lines of therapy.

NOTE Confidence: 0.8414882

00:47:57.820 --> 00:48:00.179 The idea that we start with one.

NOTE Confidence: 0.8414882

00:48:00.180 --> 00:48:02.196 We continue on that and then

NOTE Confidence: 0.8414882

00:48:02.196 --> 00:48:03.204 when patients progress,

NOTE Confidence: 0.8414882

00:48:03.210 --> 00:48:04.322 we consider that resistant.

NOTE Confidence: 0.8414882

00:48:04.322 --> 00:48:06.621 We go on to another one and that

NOTE Confidence: 0.8414882

00:48:06.621 --> 00:48:08.349 has been altered in colon cancer

NOTE Confidence: 0.8414882

00:48:08.349 --> 00:48:10.297 uniquely to into this concept of

NOTE Confidence: 0.8414882

00:48:10.297 --> 00:48:12.259 continuum of care that we individualize

NOTE Confidence: 0.8414882

00:48:12.260 --> 00:48:13.340 therapy for each patient.

NOTE Confidence: 0.8414882

00:48:13.340 --> 00:48:14.960 We may start with an aggressive

NOTE Confidence: 0.8414882

00:48:15.011 --> 00:48:16.566 therapy depending on the patient's

NOTE Confidence: 0.8414882

00:48:16.566 --> 00:48:17.810 course and their status.

NOTE Confidence: 0.8414882

00:48:17.810 --> 00:48:20.146 We may then go onto a maintenance therapy.

NOTE Confidence: 0.8414882

00:48:20.150 --> 00:48:21.758 We may go into lower intensity

NOTE Confidence: 0.8414882

00:48:21.758 --> 00:48:23.448 treatments and then we may even

NOTE Confidence: 0.8414882

00:48:23.448 --> 00:48:24.863 give them treatment free intervals

NOTE Confidence: 0.8414882

00:48:24.863 --> 00:48:25.712 which had at

NOTE Confidence: 0.83927435

00:48:25.767 --> 00:48:27.735 one point not been considered rational.

NOTE Confidence: 0.83927435

00:48:27.740 --> 00:48:30.084 But because of side effects and the need

NOTE Confidence: 0.83927435

00:48:30.084 --> 00:48:32.117 to recover and the quality of life,

NOTE Confidence: 0.83927435

00:48:32.120 --> 00:48:33.848 we often will give them periods

NOTE Confidence: 0.83927435

00:48:33.848 --> 00:48:35.705 of time where there off treatment

NOTE Confidence: 0.83927435

00:48:35.705 --> 00:48:37.320 off some of the therapies.

NOTE Confidence: 0.83927435

00:48:37.320 --> 00:48:39.232 And then we may even go back and

NOTE Confidence: 0.83927435

00:48:39.232 --> 00:48:40.482 retreat with prior treatments

NOTE Confidence: 0.83927435

00:48:40.482 --> 00:48:42.267 depending on duration of time.

NOTE Confidence: 0.83927435

00:48:42.270 --> 00:48:44.010 But the key here is overtime.

NOTE Confidence: 0.83927435

00:48:44.010 --> 00:48:45.816 We tend to try to expose patients

NOTE Confidence: 0.83927435

00:48:45.816 --> 00:48:47.310 to all active agents during

NOTE Confidence: 0.83927435

00:48:47.310 --> 00:48:48.960 the course of their illness,

NOTE Confidence: 0.83927435

00:48:48.960 --> 00:48:50.850 which will clearly it has been shown

NOTE Confidence: 0.83927435

00:48:50.850 --> 00:48:52.449 to improve long term outcomes.

NOTE Confidence: 0.83927435

00:48:52.450 --> 00:48:53.962 This is an example for those

NOTE Confidence: 0.83927435

00:48:53.962 --> 00:48:56.363 of you in my age who we didn't

NOTE Confidence: 0.83927435

00:48:56.363 --> 00:48:57.687 have computers back then,

NOTE Confidence: 0.83927435

00:48:57.690 --> 00:48:59.594 and I started off learning to use

NOTE Confidence: 0.83927435

00:48:59.594 --> 00:49:02.346 5F U as a way to treat colon cancer,

NOTE Confidence: 0.83927435

00:49:02.350 --> 00:49:04.090 and that was all we had.

NOTE Confidence: 0.83927435

00:49:04.090 --> 00:49:06.253 And then these this is evolved over

NOTE Confidence: 0.83927435

00:49:06.253 --> 00:49:08.299 from the early 80s into the 90s.

NOTE Confidence: 0.83927435

00:49:08.300 --> 00:49:10.205 When we started using combination

NOTE Confidence: 0.83927435

00:49:10.205 --> 00:49:12.110 therapies and newer agents that

NOTE Confidence: 0.83927435

00:49:12.177 --> 00:49:13.877 used as Doctor Lee mentioned,

NOTE Confidence: 0.83927435

00:49:13.880 --> 00:49:16.070 Folfox is an example where we

NOTE Confidence: 0.83927435

00:49:16.070 --> 00:49:17.970 user entity I'm sorry five.

NOTE Confidence: 0.83927435

00:49:17.970 --> 00:49:19.830 If you combined with oxaliplatin,

NOTE Confidence: 0.83927435

00:49:19.830 --> 00:49:21.804 an agent that became available in

NOTE Confidence: 0.83927435

00:49:21.804 --> 00:49:24.537 the early 90s and has been central

NOTE Confidence: 0.83927435

00:49:24.537 --> 00:49:26.792 to combination therapy and here  
NOTE Confidence: 0.83927435

00:49:26.792 --> 00:49:28.409 combination therapies improve both  
NOTE Confidence: 0.83927435

00:49:28.409 --> 00:49:30.663 median survival and as you can see  
NOTE Confidence: 0.83927435

00:49:30.663 --> 00:49:32.850 in the blue increasing response rate.  
NOTE Confidence: 0.83927435

00:49:32.850 --> 00:49:35.642 But we've even move beyond that now to  
NOTE Confidence: 0.83927435

00:49:35.642 --> 00:49:38.947 the idea that we now use biological agents.  
NOTE Confidence: 0.83927435

00:49:38.950 --> 00:49:40.690 In concert with that chemotherapy  
NOTE Confidence: 0.83927435

00:49:40.690 --> 00:49:43.394 and you can see down the therapeutic  
NOTE Confidence: 0.83927435

00:49:43.394 --> 00:49:45.619 concept with their targeted agents  
NOTE Confidence: 0.83927435

00:49:45.619 --> 00:49:48.719 based on mutations as well as different  
NOTE Confidence: 0.83927435

00:49:48.719 --> 00:49:50.834 approaches to inhibiting tumor growth,  
NOTE Confidence: 0.83927435

00:49:50.840 --> 00:49:52.480 vascular growth factor inhibitors,  
NOTE Confidence: 0.83927435

00:49:52.480 --> 00:49:53.710 such as bevacizumab,  
NOTE Confidence: 0.83927435

00:49:53.710 --> 00:49:54.518 newer agents,  
NOTE Confidence: 0.83927435

00:49:54.518 --> 00:49:58.220 and we can string out and improve long term,  
NOTE Confidence: 0.83927435

00:49:58.220 --> 00:50:00.820 survivals quite substantially in patients.

NOTE Confidence: 0.83927435

00:50:00.820 --> 00:50:02.950 With this this sequential combination

NOTE Confidence: 0.83927435

00:50:02.950 --> 00:50:03.376 approach,

NOTE Confidence: 0.83927435

00:50:03.380 --> 00:50:06.040 but it's critical to understand the backbone

NOTE Confidence: 0.83927435

00:50:06.040 --> 00:50:08.509 of treatment still remains chemotherapy,

NOTE Confidence: 0.83927435

00:50:08.510 --> 00:50:10.214 the floral pyrimidines and

NOTE Confidence: 0.83927435

00:50:10.214 --> 00:50:11.918 it was mentioned earlier,

NOTE Confidence: 0.83927435

00:50:11.920 --> 00:50:15.072 Folfox which uses 5F U as a doublet

NOTE Confidence: 0.83927435

00:50:15.072 --> 00:50:17.788 because the look of Organism modulator

NOTE Confidence: 0.83927435

00:50:17.788 --> 00:50:20.890 and the two chemo agents are 5F,

NOTE Confidence: 0.83927435

00:50:20.890 --> 00:50:22.171 U, and oxaliplatin,

NOTE Confidence: 0.83927435

00:50:22.171 --> 00:50:25.160 oxaliplatin has its own unique side effects,

NOTE Confidence: 0.83927435

00:50:25.160 --> 00:50:27.290 particularly cold sensitivity in neuropathy,

NOTE Confidence: 0.83927435

00:50:27.290 --> 00:50:29.858 well as are in OT Canon,

NOTE Confidence: 0.83927435

00:50:29.860 --> 00:50:31.440 folfiri often has diarrhea.

NOTE Confidence: 0.83927435

00:50:31.440 --> 00:50:34.720 And other side effects as its consequence.

NOTE Confidence: 0.83927435



00:50:34.720 --> 00:50:36.930 What's interesting is many patients  
NOTE Confidence: 0.83927435

00:50:36.930 --> 00:50:39.140 will come having had prior  
NOTE Confidence: 0.83927435

00:50:39.219 --> 00:50:41.289 Azure in therapy with folfox,  
NOTE Confidence: 0.83927435

00:50:41.290 --> 00:50:43.480 and so in those patients.  
NOTE Confidence: 0.83927435

00:50:43.480 --> 00:50:46.558 The initial therapy maybe folfiri using  
NOTE Confidence: 0.83927435

00:50:46.558 --> 00:50:48.610 a somewhat different combination.  
NOTE Confidence: 0.83927435

00:50:48.610 --> 00:50:50.548 In very aggressive disease with very  
NOTE Confidence: 0.83927435

00:50:50.548 --> 00:50:52.432 high tourbook, we may combine them,  
NOTE Confidence: 0.83927435

00:50:52.432 --> 00:50:54.770 but this is really for younger people.  
NOTE Confidence: 0.83927435

00:50:54.770 --> 00:50:56.546 People are good quality and performance  
NOTE Confidence: 0.83927435

00:50:56.546 --> 00:50:58.979 status and we may actually combine Excel.  
NOTE Confidence: 0.83927435

00:50:58.980 --> 00:51:01.612 Planner in OT can if they have large  
NOTE Confidence: 0.83927435

00:51:01.612 --> 00:51:03.879 tumor bulk or aggressive disease.  
NOTE Confidence: 0.83927435

00:51:03.880 --> 00:51:04.592 But importantly,  
NOTE Confidence: 0.83927435

00:51:04.592 --> 00:51:08.038 we also try now to use biology and use  
NOTE Confidence: 0.83927435

00:51:08.038 --> 00:51:10.678 these biomarkers to incorporate other

NOTE Confidence: 0.83927435

00:51:10.678 --> 00:51:13.790 approaches. To this we look early on.

NOTE Confidence: 0.83927435

00:51:13.790 --> 00:51:15.945 Once the patient is diagnosed

NOTE Confidence: 0.83927435

00:51:15.945 --> 00:51:17.238 with metastatic disease,

NOTE Confidence: 0.83927435

00:51:17.240 --> 00:51:20.096 the first step is to make sure

NOTE Confidence: 0.83927435

00:51:20.096 --> 00:51:21.980 that their mutation status,

NOTE Confidence: 0.83927435

00:51:21.980 --> 00:51:24.075 then they have critical mutations

NOTE Confidence: 0.83927435

00:51:24.075 --> 00:51:26.685 in a pathway called MAP kinase

NOTE Confidence: 0.83927435

00:51:26.685 --> 00:51:28.449 that's crass and Rasen.

NOTE Confidence: 0.83927435

00:51:28.450 --> 00:51:30.605 Be wrapping these three genes

NOTE Confidence: 0.83927435

00:51:30.605 --> 00:51:32.329 when mutated are activated,

NOTE Confidence: 0.83927435

00:51:32.330 --> 00:51:35.126 and it means that they will

NOTE Confidence: 0.83927435

00:51:35.126 --> 00:51:36.990 therefore change the sensitivity.

NOTE Confidence: 0.69435084

00:51:36.990 --> 00:51:39.114 To medicine, so for key resin

NOTE Confidence: 0.69435084

00:51:39.114 --> 00:51:41.406 resin be raff there are agents

NOTE Confidence: 0.69435084

00:51:41.406 --> 00:51:43.416 that are called EGFR agents.

NOTE Confidence: 0.69435084

00:51:43.420 --> 00:51:45.072 Epidermal growth factor inhibitors  
NOTE Confidence: 0.69435084

00:51:45.072 --> 00:51:48.210 that are not active in those settings.  
NOTE Confidence: 0.69435084

00:51:48.210 --> 00:51:50.709 Her to which many people are familiar  
NOTE Confidence: 0.69435084

00:51:50.709 --> 00:51:53.014 with with breast cancer can also  
NOTE Confidence: 0.69435084

00:51:53.014 --> 00:51:54.954 be upregulated in colon cancer.  
NOTE Confidence: 0.69435084

00:51:54.960 --> 00:51:56.184 And really importantly,  
NOTE Confidence: 0.69435084

00:51:56.184 --> 00:51:59.040 this subgroup that includes up to 6  
NOTE Confidence: 0.69435084

00:51:59.114 --> 00:52:01.185 to 8% of patients will have defects  
NOTE Confidence: 0.69435084

00:52:01.185 --> 00:52:03.590 in their ability to repair mutations.  
NOTE Confidence: 0.69435084

00:52:03.590 --> 00:52:05.949 We call that mismatch repair and it's  
NOTE Confidence: 0.69435084

00:52:05.949 --> 00:52:09.060 in a unique group who have a very  
NOTE Confidence: 0.69435084

00:52:09.060 --> 00:52:11.090 high sensitivity to immune treatment.  
NOTE Confidence: 0.69435084

00:52:11.090 --> 00:52:12.960 And Lastly, the tumor sidedness.  
NOTE Confidence: 0.69435084

00:52:12.960 --> 00:52:15.893 This is the intriguing biology that left  
NOTE Confidence: 0.69435084

00:52:15.893 --> 00:52:19.179 sided cancers are different than right sided.  
NOTE Confidence: 0.69435084

00:52:19.180 --> 00:52:22.260 In terms of their biology and this is,

NOTE Confidence: 0.69435084

00:52:22.260 --> 00:52:24.955 these are the biological agents I mentioned.

NOTE Confidence: 0.69435084

00:52:24.960 --> 00:52:26.940 The EGFR targeted agents and whether

NOTE Confidence: 0.69435084

00:52:26.940 --> 00:52:29.684 or not they are affected is largely

NOTE Confidence: 0.69435084

00:52:29.684 --> 00:52:31.496 determined by mutation status.

NOTE Confidence: 0.69435084

00:52:31.500 --> 00:52:33.425 So patients who have mutated

NOTE Confidence: 0.69435084

00:52:33.425 --> 00:52:34.580 receptor mutated genes.

NOTE Confidence: 0.69435084

00:52:34.580 --> 00:52:37.408 The rats and Rask Eracer be raffine

NOTE Confidence: 0.69435084

00:52:37.408 --> 00:52:40.358 that may occur up to 4050% of patients,

NOTE Confidence: 0.69435084

00:52:40.358 --> 00:52:43.046 depending on the side of the colon,

NOTE Confidence: 0.69435084

00:52:43.050 --> 00:52:45.306 for instance, only in wild type

NOTE Confidence: 0.69435084

00:52:45.306 --> 00:52:47.290 patients who have normal jeans.

NOTE Confidence: 0.69435084

00:52:47.290 --> 00:52:48.673 These normal jeans.

NOTE Confidence: 0.69435084

00:52:48.673 --> 00:52:50.517 Do they effectively respond

NOTE Confidence: 0.69435084

00:52:50.517 --> 00:52:53.190 to these EGFR targeted agents?

NOTE Confidence: 0.69435084

00:52:53.190 --> 00:52:54.672 Erbitux invective, X?

NOTE Confidence: 0.69435084

00:52:54.672 --> 00:52:57.142 What's fascinating is that these  
NOTE Confidence: 0.69435084  
00:52:57.142 --> 00:52:59.244 are particularly effective in tumors  
NOTE Confidence: 0.69435084  
00:52:59.244 --> 00:53:01.680 in the left side of the colon.  
NOTE Confidence: 0.69435084  
00:53:01.680 --> 00:53:04.368 If they are what we call wild type.  
NOTE Confidence: 0.69435084  
00:53:04.370 --> 00:53:04.689 However,  
NOTE Confidence: 0.69435084  
00:53:04.689 --> 00:53:08.060 if they are in the right side of the colon,  
NOTE Confidence: 0.69435084  
00:53:08.060 --> 00:53:09.740 even if they're not even,  
NOTE Confidence: 0.69435084  
00:53:09.740 --> 00:53:11.084 if their mutation is negative,  
NOTE Confidence: 0.69435084  
00:53:11.084 --> 00:53:13.486 they tend not to respond as well  
NOTE Confidence: 0.69435084  
00:53:13.486 --> 00:53:14.449 to these agents,  
NOTE Confidence: 0.69435084  
00:53:14.450 --> 00:53:16.830 so it's really in those with left  
NOTE Confidence: 0.69435084  
00:53:16.830 --> 00:53:18.868 sided colon cancers and have no  
NOTE Confidence: 0.69435084  
00:53:18.868 --> 00:53:21.073 mutations in these genes where we can  
NOTE Confidence: 0.69435084  
00:53:21.139 --> 00:53:23.839 use this in combination with chemotherapy.  
NOTE Confidence: 0.69435084  
00:53:23.840 --> 00:53:24.220 Alternatively,  
NOTE Confidence: 0.69435084  
00:53:24.220 --> 00:53:25.740 we have angiogenesis inhibitors,

NOTE Confidence: 0.69435084

00:53:25.740 --> 00:53:28.176 that is the classic one of vast

NOTE Confidence: 0.69435084

00:53:28.176 --> 00:53:30.512 nervous is a map which itself

NOTE Confidence: 0.69435084

00:53:30.512 --> 00:53:32.936 can be used in patients with.

NOTE Confidence: 0.69435084

00:53:32.940 --> 00:53:35.817 These mutations can be used often in

NOTE Confidence: 0.69435084

00:53:35.817 --> 00:53:37.928 combination with chemotherapy and those

NOTE Confidence: 0.69435084

00:53:37.928 --> 00:53:40.358 with these aggressive right sided cancers.

NOTE Confidence: 0.69435084

00:53:40.360 --> 00:53:41.004 And we,

NOTE Confidence: 0.69435084

00:53:41.004 --> 00:53:41.648 but critically,

NOTE Confidence: 0.69435084

00:53:41.648 --> 00:53:44.031 we need to balance risk and benefit

NOTE Confidence: 0.69435084

00:53:44.031 --> 00:53:46.726 because one of the problems with the

NOTE Confidence: 0.69435084

00:53:46.726 --> 00:53:48.605 the angiogenesis inhibitors as they

NOTE Confidence: 0.69435084

00:53:48.605 --> 00:53:51.034 carry their own set of side effects.

NOTE Confidence: 0.69435084

00:53:51.040 --> 00:53:52.820 For instance, hypertension is classic.

NOTE Confidence: 0.69435084

00:53:52.820 --> 00:53:53.864 They develop proteinuria,

NOTE Confidence: 0.69435084

00:53:53.864 --> 00:53:55.256 and particularly there's a

NOTE Confidence: 0.69435084

00:53:55.256 --> 00:53:56.740 risk for thrombotic disease.  
NOTE Confidence: 0.69435084

00:53:56.740 --> 00:53:58.164 These are small percentages,  
NOTE Confidence: 0.69435084

00:53:58.164 --> 00:54:01.009 but they can be devastating when they occur.  
NOTE Confidence: 0.69435084

00:54:01.010 --> 00:54:02.785 And there's also the potential  
NOTE Confidence: 0.69435084

00:54:02.785 --> 00:54:04.205 risk for bowel perforation.  
NOTE Confidence: 0.69435084

00:54:04.210 --> 00:54:05.275 And most importantly,  
NOTE Confidence: 0.69435084

00:54:05.275 --> 00:54:06.695 if you've had surgery,  
NOTE Confidence: 0.69435084

00:54:06.700 --> 00:54:09.122 it is critical to wait because these  
NOTE Confidence: 0.69435084

00:54:09.122 --> 00:54:11.049 agents actually impair wound healing.  
NOTE Confidence: 0.69435084

00:54:11.050 --> 00:54:13.102 As the mechanism in which they  
NOTE Confidence: 0.69435084

00:54:13.102 --> 00:54:14.470 were blocking vascular growth,  
NOTE Confidence: 0.69435084

00:54:14.470 --> 00:54:16.175 which is central to developing  
NOTE Confidence: 0.69435084

00:54:16.175 --> 00:54:16.857 effective words,  
NOTE Confidence: 0.69435084

00:54:16.860 --> 00:54:19.468 and we prefer 6 to 8 weeks prior  
NOTE Confidence: 0.69435084

00:54:19.468 --> 00:54:21.980 to surgery or 6 to 8 weeks after  
NOTE Confidence: 0.69435084

00:54:21.980 --> 00:54:24.405 surgery to to use these agents and

NOTE Confidence: 0.69435084

00:54:24.405 --> 00:54:27.114 we must be careful in patients who

NOTE Confidence: 0.69435084

00:54:27.120 --> 00:54:29.269 are older or have had recent from

NOTE Confidence: 0.69435084

00:54:29.269 --> 00:54:31.738 botic events or we have for instance

NOTE Confidence: 0.69435084

00:54:31.738 --> 00:54:33.958 metastatic disease to brain with lead.

NOTE Confidence: 0.82500607

00:54:36.880 --> 00:54:39.256 And this is an example of the difference

NOTE Confidence: 0.82500607

00:54:39.256 --> 00:54:41.139 between left sided and right sided.

NOTE Confidence: 0.82500607

00:54:41.140 --> 00:54:43.312 I'm going to go to the

NOTE Confidence: 0.82500607

00:54:43.312 --> 00:54:44.760 here to re sightedness.

NOTE Confidence: 0.82500607

00:54:44.760 --> 00:54:46.601 The left and the right side of

NOTE Confidence: 0.82500607

00:54:46.601 --> 00:54:48.500 the colon have different origins.

NOTE Confidence: 0.82500607

00:54:48.500 --> 00:54:49.469 There biologically different,

NOTE Confidence: 0.82500607

00:54:49.469 --> 00:54:50.761 they have different blood

NOTE Confidence: 0.82500607

00:54:50.761 --> 00:54:51.940 supplies and interesting Lee.

NOTE Confidence: 0.82500607

00:54:51.940 --> 00:54:53.956 Part of this may reflect they have

NOTE Confidence: 0.82500607

00:54:53.956 --> 00:54:55.217 different composition of bacteria

NOTE Confidence: 0.82500607



00:54:55.217 --> 00:54:56.927 and their outcomes are different.  
NOTE Confidence: 0.82500607

00:54:56.930 --> 00:54:58.796 Left sided colon cancers more common,  
NOTE Confidence: 0.82500607

00:54:58.800 --> 00:55:00.534 they have better prognosis and those  
NOTE Confidence: 0.82500607

00:55:00.534 --> 00:55:02.416 are patients where you can combine  
NOTE Confidence: 0.82500607

00:55:02.416 --> 00:55:04.096 chemotherapy with these EGFR agents.  
NOTE Confidence: 0.82500607

00:55:04.100 --> 00:55:06.140 If they don't have mutations likes  
NOTE Confidence: 0.82500607

00:55:06.140 --> 00:55:08.730 to talk some AB or an attunement.  
NOTE Confidence: 0.82500607

00:55:08.730 --> 00:55:10.596 Right study cancers are more aggressive.  
NOTE Confidence: 0.82500607

00:55:10.600 --> 00:55:12.472 They start at the \*\*\*\*\* up  
NOTE Confidence: 0.82500607

00:55:12.472 --> 00:55:13.720 to the transverse colon.  
NOTE Confidence: 0.82500607

00:55:13.720 --> 00:55:15.280 They have higher incidence of  
NOTE Confidence: 0.82500607

00:55:15.280 --> 00:55:16.528 these mutations and Interestingly,  
NOTE Confidence: 0.82500607

00:55:16.530 --> 00:55:18.402 these are the tumors in addition  
NOTE Confidence: 0.82500607

00:55:18.402 --> 00:55:19.650 to be more aggressive,  
NOTE Confidence: 0.82500607

00:55:19.650 --> 00:55:21.780 had this mismatch repair defects.  
NOTE Confidence: 0.82500607

00:55:21.780 --> 00:55:23.180 It makes them potentially

NOTE Confidence: 0.82500607

00:55:23.180 --> 00:55:24.580 more vulnerable to Mutare.

NOTE Confidence: 0.82500607

00:55:24.580 --> 00:55:26.680 They tend to have worse outcomes

NOTE Confidence: 0.82500607

00:55:26.680 --> 00:55:28.723 and they get, as I mentioned,

NOTE Confidence: 0.82500607

00:55:28.723 --> 00:55:30.709 even with wild type the mutations

NOTE Confidence: 0.82500607

00:55:30.709 --> 00:55:32.947 they don't respond well to these

NOTE Confidence: 0.82500607

00:55:32.947 --> 00:55:34.787 EGFR agents and therefore better

NOTE Confidence: 0.82500607

00:55:34.853 --> 00:55:36.875 system app or the into Genesis

NOTE Confidence: 0.82500607

00:55:36.875 --> 00:55:38.834 inhibitors may be better and this

NOTE Confidence: 0.82500607

00:55:38.834 --> 00:55:40.948 is just an example of the curve

NOTE Confidence: 0.82500607

00:55:40.948 --> 00:55:43.624 here that shows you where the left

NOTE Confidence: 0.82500607

00:55:43.624 --> 00:55:45.580 tumors have greater overall survival

NOTE Confidence: 0.82500607

00:55:45.580 --> 00:55:47.680 to the right sided chambers and

NOTE Confidence: 0.82500607

00:55:47.680 --> 00:55:49.945 you can see we generally demarcate

NOTE Confidence: 0.82500607

00:55:49.945 --> 00:55:51.970 this around the splenic flexure.

NOTE Confidence: 0.82500607

00:55:51.970 --> 00:55:54.172 Which is where the descending colon

NOTE Confidence: 0.82500607

00:55:54.172 --> 00:55:56.800 begins into the sigmoid and into the \*\*\*\*\*.

NOTE Confidence: 0.8498616

00:55:59.820 --> 00:56:01.127 And Lastly, it's really

NOTE Confidence: 0.8498616

00:56:01.127 --> 00:56:03.360 important to look at the idea of

NOTE Confidence: 0.8498616

00:56:03.430 --> 00:56:05.971 the small percentage of patients who may

NOTE Confidence: 0.8498616

00:56:05.971 --> 00:56:08.288 have these defects in mismatch repair.

NOTE Confidence: 0.8498616

00:56:08.290 --> 00:56:10.986 This is a system that's designed to control

NOTE Confidence: 0.8498616

00:56:10.986 --> 00:56:13.228 to recognize an correct DNA mutations,

NOTE Confidence: 0.8498616

00:56:13.230 --> 00:56:15.533 and when these mutations because of a

NOTE Confidence: 0.8498616

00:56:15.533 --> 00:56:18.526 defect in one of these proteins is abnormal,

NOTE Confidence: 0.8498616

00:56:18.530 --> 00:56:21.162 there is an abnormal and more rapid

NOTE Confidence: 0.8498616

00:56:21.162 --> 00:56:22.984 accumulation of mutations and errors

NOTE Confidence: 0.8498616

00:56:22.984 --> 00:56:24.880 within the DNA of these cells.

NOTE Confidence: 0.8498616

00:56:24.880 --> 00:56:27.841 A surrogate for this is a thing

NOTE Confidence: 0.8498616

00:56:27.841 --> 00:56:29.110 called microsatellite instability

NOTE Confidence: 0.8498616

00:56:29.180 --> 00:56:31.070 and it may occur in three to.

NOTE Confidence: 0.8498616

00:56:31.070 --> 00:56:33.470 6.5% but in fact it may be higher

NOTE Confidence: 0.8498616

00:56:33.470 --> 00:56:36.237 if we look at larger populations,

NOTE Confidence: 0.8498616

00:56:36.240 --> 00:56:38.585 and this leads to because of the

NOTE Confidence: 0.8498616

00:56:38.585 --> 00:56:40.300 inability to repair mutations,

NOTE Confidence: 0.8498616

00:56:40.300 --> 00:56:41.106 mutation birds,

NOTE Confidence: 0.8498616

00:56:41.106 --> 00:56:43.524 some of these mutations will generate

NOTE Confidence: 0.8498616

00:56:43.524 --> 00:56:45.650 proteins that are abnormal and the

NOTE Confidence: 0.8498616

00:56:45.650 --> 00:56:47.528 body will see these as antigens

NOTE Confidence: 0.8498616

00:56:47.592 --> 00:56:49.517 and generate an immune response.

NOTE Confidence: 0.8498616

00:56:49.520 --> 00:56:51.370 Now Fortunately when that occurs,

NOTE Confidence: 0.8498616

00:56:51.370 --> 00:56:53.986 the natural response of the body is to

NOTE Confidence: 0.8498616

00:56:53.986 --> 00:56:56.897 say we don't want an immune response.

NOTE Confidence: 0.8498616

00:56:56.900 --> 00:56:59.301 We want to turn this off because

NOTE Confidence: 0.8498616

00:56:59.301 --> 00:57:01.689 it is seen as autoimmunity.

NOTE Confidence: 0.8498616

00:57:01.690 --> 00:57:04.483 And it generates tolerance to these to

NOTE Confidence: 0.8498616

00:57:04.483 --> 00:57:07.107 this and therefore you get inhibition

NOTE Confidence: 0.8498616

00:57:07.107 --> 00:57:10.250 through what is called the checkpoint system.

NOTE Confidence: 0.8498616

00:57:10.250 --> 00:57:12.118 And these patients, therefore,

NOTE Confidence: 0.8498616

00:57:12.118 --> 00:57:14.453 when they have this feature.

NOTE Confidence: 0.8498616

00:57:14.460 --> 00:57:15.920 They're either mismatch repair,

NOTE Confidence: 0.8498616

00:57:15.920 --> 00:57:16.650 defective deficient,

NOTE Confidence: 0.8498616

00:57:16.650 --> 00:57:18.840 or they have high Ms I,

NOTE Confidence: 0.8498616

00:57:18.840 --> 00:57:20.922 as an alternative way of looking

NOTE Confidence: 0.8498616

00:57:20.922 --> 00:57:23.245 at this are very sensitive to

NOTE Confidence: 0.8498616

00:57:23.245 --> 00:57:25.837 inhibition of this checkpoint and a

NOTE Confidence: 0.8498616

00:57:25.837 --> 00:57:28.326 good example of this is the key no.

NOTE Confidence: 0.8498616

00:57:28.330 --> 00:57:30.015 177 trial where first line

NOTE Confidence: 0.8498616

00:57:30.015 --> 00:57:31.363 immunotherapy for metastatic cancer

NOTE Confidence: 0.8498616

00:57:31.363 --> 00:57:33.438 was more effective than chemotherapy.

NOTE Confidence: 0.8498616

00:57:33.440 --> 00:57:35.463 And I'll show you just a little

NOTE Confidence: 0.8498616

00:57:35.463 --> 00:57:38.073 bit of a slide about how this is

NOTE Confidence: 0.8498616

00:57:38.073 --> 00:57:40.408 just an example of how these

NOTE Confidence: 0.8498616

00:57:40.408 --> 00:57:42.199 checkpoint inhibitors work.

NOTE Confidence: 0.8498616

00:57:42.200 --> 00:57:44.090 The cancer cell through these

NOTE Confidence: 0.8498616

00:57:44.090 --> 00:57:45.980 increased mutations shows an antigen.

NOTE Confidence: 0.8498616

00:57:45.980 --> 00:57:48.895 The T cell cytotoxic T

NOTE Confidence: 0.8498616

00:57:48.895 --> 00:57:51.227 cell that attacks that.

NOTE Confidence: 0.8498616

00:57:51.230 --> 00:57:53.342 That is initially going to try

NOTE Confidence: 0.8498616

00:57:53.342 --> 00:57:55.160 to destroy the cancer cell,

NOTE Confidence: 0.8498616

00:57:55.160 --> 00:57:57.659 but the cancer cell puts up this.

NOTE Confidence: 0.8498616

00:57:57.660 --> 00:57:58.911 This protective molecule,

NOTE Confidence: 0.8498616

00:57:58.911 --> 00:58:01.830 called PDL one and PDL one therefore

NOTE Confidence: 0.8498616

00:58:01.906 --> 00:58:04.264 binds to PD one on the T cell and

NOTE Confidence: 0.8498616

00:58:04.264 --> 00:58:06.218 turns off the immune response.

NOTE Confidence: 0.8498616

00:58:06.220 --> 00:58:08.056 It's a very natural process that

NOTE Confidence: 0.8498616

00:58:08.056 --> 00:58:10.209 the that the immune system does

NOTE Confidence: 0.8498616

00:58:10.209 --> 00:58:11.937 to protect against autoimmunity.

NOTE Confidence: 0.8498616

00:58:11.940 --> 00:58:14.476 But we can do do when this occurs  
NOTE Confidence: 0.8498616

00:58:14.476 --> 00:58:17.255 and there is a immune response to  
NOTE Confidence: 0.8498616

00:58:17.255 --> 00:58:19.320 cancers with these high mutation  
NOTE Confidence: 0.8498616

00:58:19.401 --> 00:58:22.057 rates we can come in and block that.  
NOTE Confidence: 0.8498616

00:58:22.060 --> 00:58:24.699 PDL one with an animal with a  
NOTE Confidence: 0.8498616

00:58:24.699 --> 00:58:26.506 inhibitor called a checkpoint  
NOTE Confidence: 0.8498616

00:58:26.506 --> 00:58:29.491 inhibitor and block that inhibition  
NOTE Confidence: 0.8498616

00:58:29.491 --> 00:58:31.879 activate the immune response.  
NOTE Confidence: 0.8498616

00:58:31.880 --> 00:58:34.736 And this is an example of the curve  
NOTE Confidence: 0.8498616

00:58:34.736 --> 00:58:37.072 that happened when they use this  
NOTE Confidence: 0.8498616

00:58:37.072 --> 00:58:39.388 as first line therapy for patients  
NOTE Confidence: 0.8498616

00:58:39.468 --> 00:58:42.624 who had deficient micro settle MMR  
NOTE Confidence: 0.8498616

00:58:42.624 --> 00:58:44.202 or microsatellite instability.  
NOTE Confidence: 0.8498616

00:58:44.210 --> 00:58:46.754 Who had this high mutation rate  
NOTE Confidence: 0.8498616

00:58:46.754 --> 00:58:48.740 in this mismatch? Repair defects.  
NOTE Confidence: 0.8498616

00:58:48.740 --> 00:58:51.580 And what you see here in the green

NOTE Confidence: 0.8498616

00:58:51.654 --> 00:58:54.168 are the patients who were simply

NOTE Confidence: 0.8498616

00:58:54.168 --> 00:58:56.284 given a single monotherapy with

NOTE Confidence: 0.8498616

00:58:56.284 --> 00:58:58.119 the this Pember Lizum app,

NOTE Confidence: 0.8498616

00:58:58.120 --> 00:59:00.626 which is a checkpoint inhibitor at it,

NOTE Confidence: 0.8498616

00:59:00.630 --> 00:59:02.002 markedly improved response rate

NOTE Confidence: 0.8498616

00:59:02.002 --> 00:59:04.474 and what we see in this that's

NOTE Confidence: 0.8498616

00:59:04.474 --> 00:59:06.532 not true for most other therapies

NOTE Confidence: 0.8498616

00:59:06.532 --> 00:59:08.784 is a continued response that may

NOTE Confidence: 0.8498616

00:59:08.784 --> 00:59:10.320 extend beyond five years,

NOTE Confidence: 0.8498616

00:59:10.320 --> 00:59:12.644 so a portion of these patients will

NOTE Confidence: 0.8498616

00:59:12.644 --> 00:59:14.270 actually have extended responses.

NOTE Confidence: 0.8498616

00:59:14.270 --> 00:59:16.070 We've heard this is KEYTRUDA,

NOTE Confidence: 0.852451

00:59:16.070 --> 00:59:20.074 as many of you may have heard.

NOTE Confidence: 0.852451

00:59:20.080 --> 00:59:22.306 So just as as a summary,

NOTE Confidence: 0.852451

00:59:22.310 --> 00:59:24.900 if you look at this first line,

NOTE Confidence: 0.852451



00:59:24.900 --> 00:59:27.126 therapy options include in metastatic cancer.

NOTE Confidence: 0.852451

00:59:27.130 --> 00:59:29.356 In those that have be raft,

NOTE Confidence: 0.852451

00:59:29.360 --> 00:59:32.018 mutations or interest.

NOTE Confidence: 0.852451

00:59:32.020 --> 00:59:33.708 Mutations chemotherapy with bevacizumab.

NOTE Confidence: 0.852451

00:59:33.708 --> 00:59:36.770 Those who have left sided colon cancers.

NOTE Confidence: 0.852451

00:59:36.770 --> 00:59:40.268 We will often use epidermal growth

NOTE Confidence: 0.852451

00:59:40.268 --> 00:59:43.918 factor inhibitors like some tucks map or.

NOTE Confidence: 0.852451

00:59:43.920 --> 00:59:45.936 His parents had a tumor map.

NOTE Confidence: 0.852451

00:59:45.940 --> 00:59:47.950 If they have right sided cancers,

NOTE Confidence: 0.852451

00:59:47.950 --> 00:59:49.630 even if their wild type,

NOTE Confidence: 0.852451

00:59:49.630 --> 00:59:51.310 we still give potentially bevacizumab

NOTE Confidence: 0.852451

00:59:51.310 --> 00:59:52.990 and then at future therapy,

NOTE Confidence: 0.852451

00:59:52.990 --> 00:59:55.006 if you have very aggressive disease,

NOTE Confidence: 0.852451

00:59:55.010 --> 00:59:57.355 who may combine all of those agents,

NOTE Confidence: 0.852451

00:59:57.360 --> 00:59:59.080 this sort of shows you

NOTE Confidence: 0.852451

00:59:59.080 --> 01:00:00.456 that we continue therapy.

NOTE Confidence: 0.852451  
01:00:00.460 --> 01:00:03.676 The Beyond first line in the second line,  
NOTE Confidence: 0.852451  
01:00:03.680 --> 01:00:05.695 we may alternate the therapy  
NOTE Confidence: 0.852451  
01:00:05.695 --> 01:00:07.710 backbone if you've had folfox,  
NOTE Confidence: 0.852451  
01:00:07.710 --> 01:00:10.128 we may switch to full fury.  
NOTE Confidence: 0.852451  
01:00:10.130 --> 01:00:11.935 We may use alternative options  
NOTE Confidence: 0.852451  
01:00:11.935 --> 01:00:13.740 beyond that combined with an  
NOTE Confidence: 0.852451  
01:00:13.808 --> 01:00:15.768 anti Andrew Genesis bevacizumab.  
NOTE Confidence: 0.852451  
01:00:15.770 --> 01:00:18.248 If tolerated well may continue into  
NOTE Confidence: 0.852451  
01:00:18.248 --> 01:00:21.105 second line and even beyond that and  
NOTE Confidence: 0.852451  
01:00:21.105 --> 01:00:23.737 there are even newer agents that we  
NOTE Confidence: 0.852451  
01:00:23.815 --> 01:00:26.245 have that are available based on,  
NOTE Confidence: 0.852451  
01:00:26.250 --> 01:00:29.148 you know the more recent research and  
NOTE Confidence: 0.852451  
01:00:29.148 --> 01:00:31.588 most importantly just remember we can.  
NOTE Confidence: 0.852451  
01:00:31.590 --> 01:00:32.362 On occasion,  
NOTE Confidence: 0.852451  
01:00:32.362 --> 01:00:34.292 in small numbers of patients  
NOTE Confidence: 0.852451

01:00:34.292 --> 01:00:36.240 who develop attic metastasis,  
NOTE Confidence: 0.852451

01:00:36.240 --> 01:00:38.778 a small percentage may be resectable.  
NOTE Confidence: 0.852451

01:00:38.780 --> 01:00:41.318 Those recur later on with only  
NOTE Confidence: 0.852451

01:00:41.318 --> 01:00:42.164 liver metastasis,  
NOTE Confidence: 0.852451

01:00:42.170 --> 01:00:44.744 maybe resectable those who are diagnosed  
NOTE Confidence: 0.852451

01:00:44.744 --> 01:00:47.239 with metastatic cancer at the origin.  
NOTE Confidence: 0.852451

01:00:47.240 --> 01:00:48.748 We often give chemotherapy,  
NOTE Confidence: 0.852451

01:00:48.748 --> 01:00:51.566 and some of those may be salvageable  
NOTE Confidence: 0.852451

01:00:51.566 --> 01:00:54.428 with with surgery and have longer,  
NOTE Confidence: 0.852451

01:00:54.430 --> 01:00:56.450 survivals, and sometimes cures.  
NOTE Confidence: 0.852451

01:00:56.450 --> 01:01:00.620 So we always look for that possibility.  
NOTE Confidence: 0.852451

01:01:00.620 --> 01:01:03.635 I think that may cover most of what I.  
NOTE Confidence: 0.88950735

01:01:05.860 --> 01:01:07.463 Unless you want me to talk about  
NOTE Confidence: 0.88950735

01:01:07.463 --> 01:01:09.273 the last thing that I always think  
NOTE Confidence: 0.88950735

01:01:09.273 --> 01:01:11.830 is important, what can you do?  
NOTE Confidence: 0.88950735

01:01:11.830 --> 01:01:13.894 I just want to remind people

NOTE Confidence: 0.88950735

01:01:13.894 --> 01:01:15.900 the top line physical therapy,

NOTE Confidence: 0.88950735

01:01:15.900 --> 01:01:16.760 physical activity.

NOTE Confidence: 0.88950735

01:01:16.760 --> 01:01:19.340 After diagnosis improves outcome and I

NOTE Confidence: 0.88950735

01:01:19.340 --> 01:01:22.292 want to show you that this one slide

NOTE Confidence: 0.88950735

01:01:22.292 --> 01:01:24.948 prudent diet vitamin D has been shown

NOTE Confidence: 0.88950735

01:01:24.948 --> 01:01:27.420 to be potentially beneficial in survival.

NOTE Confidence: 0.88950735

01:01:27.420 --> 01:01:29.652 But this is interesting if you

NOTE Confidence: 0.88950735

01:01:29.652 --> 01:01:31.140 start exercise after diagnosis

NOTE Confidence: 0.88950735

01:01:31.207 --> 01:01:33.037 and you always account potato.

NOTE Confidence: 0.88950735

01:01:33.040 --> 01:01:35.290 This is an earlier stage disease.

NOTE Confidence: 0.88950735

01:01:35.290 --> 01:01:37.830 It reduces mortality and recurrence.

NOTE Confidence: 0.88950735

01:01:37.830 --> 01:01:39.695 If you increase your physical

NOTE Confidence: 0.88950735

01:01:39.695 --> 01:01:41.187 activity with metastatic cancer,

NOTE Confidence: 0.88950735

01:01:41.190 --> 01:01:42.550 your survival will improve,

NOTE Confidence: 0.88950735

01:01:42.550 --> 01:01:45.290 so it's an adjunct to your treatment.

NOTE Confidence: 0.88950735

01:01:45.290 --> 01:01:47.160 And it also, we know,  
NOTE Confidence: 0.88950735

01:01:47.160 --> 01:01:48.636 helps to tolerate therapy.  
NOTE Confidence: 0.88950735

01:01:48.636 --> 01:01:50.850 So be physically active during this  
NOTE Confidence: 0.88950735

01:01:50.915 --> 01:01:53.117 long period when you're on treatment,  
NOTE Confidence: 0.88950735

01:01:53.120 --> 01:01:55.556 and with each new therapy we can  
NOTE Confidence: 0.88950735

01:01:55.556 --> 01:01:57.968 prolong and extend long term survival.  
NOTE Confidence: 0.8640324

01:02:01.680 --> 01:02:03.966 Thank you Doctor Boy that's great,  
NOTE Confidence: 0.8640324

01:02:03.970 --> 01:02:07.010 so if you can share your screen,  
NOTE Confidence: 0.8640324

01:02:07.010 --> 01:02:09.296 that would be wonderful and perfect.  
NOTE Confidence: 0.8640324

01:02:09.300 --> 01:02:11.708 That's great so we have a little  
NOTE Confidence: 0.8640324

01:02:11.708 --> 01:02:14.627 bit of time remaining for some Q&A.  
NOTE Confidence: 0.8640324

01:02:14.630 --> 01:02:16.535 We will continue a little  
NOTE Confidence: 0.8640324

01:02:16.535 --> 01:02:18.440 bit where we left off,  
NOTE Confidence: 0.8640324

01:02:18.440 --> 01:02:21.107 and I think that so Doctor Lee.  
NOTE Confidence: 0.8640324

01:02:21.110 --> 01:02:23.998 I don't think we got to finish the  
NOTE Confidence: 0.8640324

01:02:23.998 --> 01:02:26.447 question that we were talking about,

NOTE Confidence: 0.8640324

01:02:26.450 --> 01:02:28.046 so I'll just read.

NOTE Confidence: 0.8640324

01:02:28.046 --> 01:02:31.020 Maybe I'll rephrase the question just so that

NOTE Confidence: 0.8640324

01:02:31.020 --> 01:02:32.920 the surgery 30 lymph nodes.

NOTE Confidence: 0.85373616

01:02:33.630 --> 01:02:35.597 Yes, exactly. And and when do you?

NOTE Confidence: 0.85373616

01:02:35.600 --> 01:02:37.292 When do you consider giving chemotherapy

NOTE Confidence: 0.85373616

01:02:37.292 --> 01:02:39.268 in that situation? So I mean, it's

NOTE Confidence: 0.85373616

01:02:39.270 --> 01:02:40.956 a great question. In some ways,

NOTE Confidence: 0.85373616

01:02:40.960 --> 01:02:42.646 it's sort of a trick question.

NOTE Confidence: 0.85373616

01:02:42.650 --> 01:02:44.906 He says. Well, yes, all that was done,

NOTE Confidence: 0.85373616

01:02:44.910 --> 01:02:46.428 or what did they find at

NOTE Confidence: 0.85373616

01:02:46.428 --> 01:02:48.010 the time of the surgery?

NOTE Confidence: 0.85373616

01:02:48.010 --> 01:02:49.984 And that's in part of my talk.

NOTE Confidence: 0.85373616

01:02:49.990 --> 01:02:51.957 That's what I touched upon that yes,

NOTE Confidence: 0.85373616

01:02:51.960 --> 01:02:53.703 you had all those lymph nodes taken

NOTE Confidence: 0.85373616

01:02:53.703 --> 01:02:55.815 out and the importance of being all

NOTE Confidence: 0.85373616

01:02:55.815 --> 01:02:57.825 those \*\*\*\*\* I think have already been  
NOTE Confidence: 0.85373616

01:02:57.825 --> 01:02:59.518 addressed because of the importance of  
NOTE Confidence: 0.85373616

01:02:59.518 --> 01:03:01.270 determining whether the cancer is regional.  
NOTE Confidence: 0.85373616

01:03:01.270 --> 01:03:03.237 Mattis said the lymph nodes are involved.  
NOTE Confidence: 0.85373616

01:03:03.240 --> 01:03:04.548 We have to remove.  
NOTE Confidence: 0.85373616

01:03:04.548 --> 01:03:05.529 At least 12.  
NOTE Confidence: 0.85373616

01:03:05.530 --> 01:03:07.010 Preferably more lymph nodes,  
NOTE Confidence: 0.85373616

01:03:07.010 --> 01:03:09.230 to make sure that we actually  
NOTE Confidence: 0.85373616

01:03:09.300 --> 01:03:11.214 have an early stage disease at  
NOTE Confidence: 0.85373616

01:03:11.214 --> 01:03:13.389 the lymph nodes are not involved.  
NOTE Confidence: 0.85373616

01:03:13.390 --> 01:03:15.875 So out of those started lymph nodes.  
NOTE Confidence: 0.85373616

01:03:15.880 --> 01:03:17.692 If you know a significant let's  
NOTE Confidence: 0.85373616

01:03:17.692 --> 01:03:19.641 let's have a have involvement then  
NOTE Confidence: 0.85373616

01:03:19.641 --> 01:03:22.014 I think you know that person should  
NOTE Confidence: 0.85373616

01:03:22.014 --> 01:03:24.447 be advised to consider chemotherapy.  
NOTE Confidence: 0.85373616

01:03:24.450 --> 01:03:26.586 I've been a 30 by there,

NOTE Confidence: 0.85373616

01:03:26.590 --> 01:03:28.774 but I think the question mean plus

NOTE Confidence: 0.85373616

01:03:28.774 --> 01:03:31.362 39 plus are removed and none are

NOTE Confidence: 0.85373616

01:03:31.362 --> 01:03:33.726 positive that there are all negative.

NOTE Confidence: 0.85373616

01:03:33.730 --> 01:03:36.404 So then he really comes down to.

NOTE Confidence: 0.85373616

01:03:36.410 --> 01:03:38.846 You know the features that I mentioned.

NOTE Confidence: 0.85373616

01:03:38.850 --> 01:03:40.250 You know it's a.

NOTE Confidence: 0.85373616

01:03:40.250 --> 01:03:40.950 It's then,

NOTE Confidence: 0.85373616

01:03:40.950 --> 01:03:43.044 by definition is a stage one

NOTE Confidence: 0.85373616

01:03:43.044 --> 01:03:44.440 or stage two disease,

NOTE Confidence: 0.85373616

01:03:44.440 --> 01:03:46.165 and are there any microscopic

NOTE Confidence: 0.85373616

01:03:46.165 --> 01:03:47.890 feature about the cancer that

NOTE Confidence: 0.85373616

01:03:47.949 --> 01:03:49.729 makes us particularly worry that

NOTE Confidence: 0.85373616

01:03:49.729 --> 01:03:51.909 this person against the odds right

NOTE Confidence: 0.85373616

01:03:51.909 --> 01:03:53.907 against the odds will have recurrent

NOTE Confidence: 0.85373616

01:03:53.907 --> 01:03:55.756 disease in the next five years?

NOTE Confidence: 0.85373616



01:03:55.756 --> 01:03:57.448 And I think that's what goes  
NOTE Confidence: 0.85373616

01:03:57.448 --> 01:03:59.491 into making a decision about  
NOTE Confidence: 0.85373616

01:03:59.491 --> 01:04:01.187 recommending or considering therapy,  
NOTE Confidence: 0.85373616

01:04:01.190 --> 01:04:04.322 and I like to hear Doctor insist on that.  
NOTE Confidence: 0.8607177

01:04:04.930 --> 01:04:06.958 Yeah, thanks Doctor Lee. Yes no.  
NOTE Confidence: 0.8607177

01:04:06.960 --> 01:04:09.319 I mean I think that I answered  
NOTE Confidence: 0.8607177

01:04:09.319 --> 01:04:11.348 a little bit in the chat,  
NOTE Confidence: 0.8607177

01:04:11.350 --> 01:04:12.514 but it's you know,  
NOTE Confidence: 0.8607177

01:04:12.514 --> 01:04:14.260 we really tailor our answers to  
NOTE Confidence: 0.8607177

01:04:14.318 --> 01:04:16.148 the individual patient and that  
NOTE Confidence: 0.8607177

01:04:16.148 --> 01:04:18.450 determine is determined by many things.  
NOTE Confidence: 0.8607177

01:04:18.450 --> 01:04:20.230 It's determined by what their  
NOTE Confidence: 0.8607177

01:04:20.230 --> 01:04:22.010 pathologist see under the microscope  
NOTE Confidence: 0.8607177

01:04:22.065 --> 01:04:24.179 in terms of other high risk features  
NOTE Confidence: 0.8607177

01:04:24.179 --> 01:04:26.218 that may predispose to cancer spreading.  
NOTE Confidence: 0.8607177

01:04:26.220 --> 01:04:28.586 It depends on the patient's age and

NOTE Confidence: 0.8607177

01:04:28.586 --> 01:04:30.280 other medical conditions and health.

NOTE Confidence: 0.8607177

01:04:30.280 --> 01:04:32.302 So it depends on how they

NOTE Confidence: 0.8607177

01:04:32.302 --> 01:04:33.313 recover from surgery.

NOTE Confidence: 0.8607177

01:04:33.320 --> 01:04:36.216 So it's I think it's really shared decision

NOTE Confidence: 0.8607177

01:04:36.216 --> 01:04:39.018 making and I think that's something that.

NOTE Confidence: 0.8607177

01:04:39.020 --> 01:04:41.547 We as a team really talked about

NOTE Confidence: 0.8607177

01:04:41.547 --> 01:04:44.189 quite a bit with the patients.

NOTE Confidence: 0.8607177

01:04:44.190 --> 01:04:46.670 So I'm going to turn to Doctor your

NOTE Confidence: 0.8607177

01:04:46.670 --> 01:04:49.126 and with a couple of questions so,

NOTE Confidence: 0.8607177

01:04:49.130 --> 01:04:52.420 so this has been I guess I have a few,

NOTE Confidence: 0.8607177

01:04:52.420 --> 01:04:54.060 but I'll start with cotton.

NOTE Confidence: 0.8607177

01:04:54.060 --> 01:04:56.028 So a year where you know,

NOTE Confidence: 0.8607177

01:04:56.030 --> 01:04:58.640 we've certainly seen disparities in care.

NOTE Confidence: 0.8607177

01:04:58.640 --> 01:05:00.810 And I'm wondering if you can comment

NOTE Confidence: 0.8607177

01:05:00.810 --> 01:05:03.747 some on how we know that you know I'd

NOTE Confidence: 0.8607177

01:05:03.747 --> 01:05:05.973 say our black population is especially  
NOTE Confidence: 0.8607177

01:05:05.973 --> 01:05:08.138 at increased risk for developing  
NOTE Confidence: 0.8607177

01:05:08.138 --> 01:05:10.481 colorectal cancer an at earlier ages.  
NOTE Confidence: 0.8607177

01:05:10.481 --> 01:05:12.563 Can you comment on that and  
NOTE Confidence: 0.8607177

01:05:12.563 --> 01:05:14.477 what we're doing about it?  
NOTE Confidence: 0.8264596

01:05:15.640 --> 01:05:17.420 Yeah, so yeah, certainly I'm.  
NOTE Confidence: 0.8264596

01:05:17.420 --> 01:05:20.450 It's been a good year to bring up a lot  
NOTE Confidence: 0.8264596

01:05:20.529 --> 01:05:23.462 of the disparities that we've seen for  
NOTE Confidence: 0.8264596

01:05:23.462 --> 01:05:26.435 many many years and and in many ways  
NOTE Confidence: 0.8264596

01:05:26.435 --> 01:05:29.096 we just have not been able to tackle  
NOTE Confidence: 0.8264596

01:05:29.096 --> 01:05:31.490 an understanding them is is key to  
NOTE Confidence: 0.8264596

01:05:31.562 --> 01:05:33.858 really be able to do something about  
NOTE Confidence: 0.8264596

01:05:33.858 --> 01:05:36.590 it when it comes to early answered.  
NOTE Confidence: 0.8264596

01:05:36.590 --> 01:05:38.697 Again, for for years and years we've  
NOTE Confidence: 0.8264596

01:05:38.697 --> 01:05:40.519 seen those the African Americans  
NOTE Confidence: 0.8264596

01:05:40.519 --> 01:05:42.223 were developing colorectal cancer

NOTE Confidence: 0.8264596

01:05:42.223 --> 01:05:44.983 younger ages and and some of the

NOTE Confidence: 0.8264596

01:05:44.983 --> 01:05:46.643 factors that we mentioned before.

NOTE Confidence: 0.8264596

01:05:46.650 --> 01:05:48.380 Seem to play a role,

NOTE Confidence: 0.8264596

01:05:48.380 --> 01:05:50.450 but we are missing some information.

NOTE Confidence: 0.8264596

01:05:50.450 --> 01:05:52.520 We clearly are missing some information,

NOTE Confidence: 0.8264596

01:05:52.520 --> 01:05:53.200 probably toxics,

NOTE Confidence: 0.8264596

01:05:53.200 --> 01:05:54.900 probably chemicals that were not

NOTE Confidence: 0.8264596

01:05:54.900 --> 01:05:56.660 really unclear about their affects.

NOTE Confidence: 0.8264596

01:05:56.660 --> 01:05:58.880 The information that we have regarding

NOTE Confidence: 0.8264596

01:05:58.880 --> 01:06:01.356 the risk factors just not does not

NOTE Confidence: 0.8264596

01:06:01.356 --> 01:06:03.210 add up to the entire difference,

NOTE Confidence: 0.8264596

01:06:03.210 --> 01:06:05.534 so there are some things that are

NOTE Confidence: 0.8264596

01:06:05.534 --> 01:06:08.134 still missing and and so we need to

NOTE Confidence: 0.8264596

01:06:08.134 --> 01:06:10.128 understand better in order to tackle

NOTE Confidence: 0.8264596

01:06:10.128 --> 01:06:12.865 things we need to understand them better.

NOTE Confidence: 0.8264596

01:06:12.870 --> 01:06:15.012 We need to study them better where

NOTE Confidence: 0.8264596

01:06:15.012 --> 01:06:17.438 the roots of those differences are.

NOTE Confidence: 0.8264596

01:06:17.440 --> 01:06:18.208 And really,

NOTE Confidence: 0.8264596

01:06:18.208 --> 01:06:20.128 making a deliberate effort to

NOTE Confidence: 0.8264596

01:06:20.128 --> 01:06:21.280 really tackle them,

NOTE Confidence: 0.8264596

01:06:21.280 --> 01:06:23.646 and I think that it's we're long

NOTE Confidence: 0.8264596

01:06:23.646 --> 01:06:26.028 overdue for that and hopefully will

NOTE Confidence: 0.8264596

01:06:26.028 --> 01:06:28.183 make a difference starting now.

NOTE Confidence: 0.8670272

01:06:28.820 --> 01:06:30.270 Yep, Yep, I agree there's

NOTE Confidence: 0.8670272

01:06:30.270 --> 01:06:31.720 actually a question that just

NOTE Confidence: 0.8670272

01:06:31.773 --> 01:06:33.543 came in the chat that Doctor

NOTE Confidence: 0.8670272

01:06:33.543 --> 01:06:34.990 that's very appropriate for you.

NOTE Confidence: 0.8670272

01:06:34.990 --> 01:06:36.760 I think I know the answer,

NOTE Confidence: 0.8670272

01:06:36.760 --> 01:06:38.230 but is the question is,

NOTE Confidence: 0.8670272

01:06:38.230 --> 01:06:40.890 is it overly aggressive to ask your

NOTE Confidence: 0.8670272

01:06:40.890 --> 01:06:42.781 primary care doctor to recommend

NOTE Confidence: 0.8670272

01:06:42.781 --> 01:06:45.510 a colonoscopy at the age of 45? So

NOTE Confidence: 0.8136516

01:06:45.510 --> 01:06:47.994 from all we know, there's already

NOTE Confidence: 0.8136516

01:06:47.994 --> 01:06:50.015 one society recommending that the

NOTE Confidence: 0.8136516

01:06:50.015 --> 01:06:52.407 USPS TF pretty soon is gonna do that.

NOTE Confidence: 0.8136516

01:06:52.410 --> 01:06:54.588 I understand the ACG one of

NOTE Confidence: 0.8136516

01:06:54.588 --> 01:06:56.040 the questions are logical.

NOTE Confidence: 0.8136516

01:06:56.040 --> 01:06:58.218 Society's is open to that too.

NOTE Confidence: 0.8136516

01:06:58.220 --> 01:07:00.754 I think that, as we mentioned before,

NOTE Confidence: 0.8136516

01:07:00.760 --> 01:07:03.890 the evidence is there an, and there are not.

NOTE Confidence: 0.8136516

01:07:03.890 --> 01:07:05.540 That many cancers were screening

NOTE Confidence: 0.8136516

01:07:05.540 --> 01:07:06.570 makes difference.

NOTE Confidence: 0.8136516

01:07:06.570 --> 01:07:08.748 And this is one of them.

NOTE Confidence: 0.8136516

01:07:08.750 --> 01:07:12.008 There are just not that many Ann and there,

NOTE Confidence: 0.8136516

01:07:12.010 --> 01:07:13.462 so the recommendations of

NOTE Confidence: 0.8136516

01:07:13.462 --> 01:07:14.914 the American Cancer Society.

NOTE Confidence: 0.8136516

01:07:14.920 --> 01:07:16.890 The new recommendations are probably  
NOTE Confidence: 0.8136516

01:07:16.890 --> 01:07:20.090 are going to come out from the USPS TF.  
NOTE Confidence: 0.8136516

01:07:20.090 --> 01:07:22.000 They're really based on some  
NOTE Confidence: 0.8136516

01:07:22.000 --> 01:07:23.910 what they call modeling studies,  
NOTE Confidence: 0.8136516

01:07:23.910 --> 01:07:25.962 because doing a large real life  
NOTE Confidence: 0.8136516

01:07:25.962 --> 01:07:28.264 study here is a very complex  
NOTE Confidence: 0.8136516

01:07:28.264 --> 01:07:30.399 thing that would take years,  
NOTE Confidence: 0.8136516

01:07:30.400 --> 01:07:32.843 so they use three different groups of  
NOTE Confidence: 0.8136516

01:07:32.843 --> 01:07:35.369 researchers that do what's called modeling,  
NOTE Confidence: 0.8136516

01:07:35.370 --> 01:07:37.644 which is they put together a  
NOTE Confidence: 0.8136516

01:07:37.644 --> 01:07:40.340 bunch of data in terms of and,  
NOTE Confidence: 0.8136516

01:07:40.340 --> 01:07:43.007 and they come up with with scenarios.  
NOTE Confidence: 0.8136516

01:07:43.010 --> 01:07:44.338 They look at risk.  
NOTE Confidence: 0.8136516

01:07:44.338 --> 01:07:46.330 They look at what the potential  
NOTE Confidence: 0.8136516

01:07:46.397 --> 01:07:48.017 complications could be from  
NOTE Confidence: 0.8136516

01:07:48.017 --> 01:07:50.042 screening that 'cause they look

NOTE Confidence: 0.8136516

01:07:50.042 --> 01:07:52.238 a bunch of different things.

NOTE Confidence: 0.8136516

01:07:52.240 --> 01:07:54.606 And what they really saw is that

NOTE Confidence: 0.8136516

01:07:54.606 --> 01:07:56.767 when they corrected for these trends

NOTE Confidence: 0.8136516

01:07:56.767 --> 01:07:58.915 that we're seeing recently in terms

NOTE Confidence: 0.8136516

01:07:58.915 --> 01:08:01.097 of younger and younger people,

NOTE Confidence: 0.8136516

01:08:01.100 --> 01:08:02.576 developing cancer starting at

NOTE Confidence: 0.8136516

01:08:02.576 --> 01:08:04.790 45 makes a lot of sense.

NOTE Confidence: 0.8136516

01:08:04.790 --> 01:08:06.998 So we it's a moving target.

NOTE Confidence: 0.8136516

01:08:07.000 --> 01:08:09.136 But certainly I think that the

NOTE Confidence: 0.8136516

01:08:09.136 --> 01:08:11.013 consensus is there we have

NOTE Confidence: 0.8136516

01:08:11.013 --> 01:08:12.898 to move that that direction.

NOTE Confidence: 0.8136516

01:08:12.900 --> 01:08:15.120 There's still a group that's there.

NOTE Confidence: 0.8136516

01:08:15.120 --> 01:08:16.960 They are younger than 45.

NOTE Confidence: 0.8136516

01:08:16.960 --> 01:08:19.669 There are being diagnosed and naughty and

NOTE Confidence: 0.8136516

01:08:19.669 --> 01:08:22.586 and those who need to be addressed to.

NOTE Confidence: 0.8136516



01:08:22.590 --> 01:08:24.669 So what we can start shooting at  
NOTE Confidence: 0.8136516

01:08:24.669 --> 01:08:26.764 10 but working what we can also  
NOTE Confidence: 0.8136516

01:08:26.764 --> 01:08:28.868 do is to raise our awareness and  
NOTE Confidence: 0.8136516

01:08:28.868 --> 01:08:31.171 in the past we as physicians with  
NOTE Confidence: 0.8136516

01:08:31.171 --> 01:08:32.742 easily dismiss someone 35 year  
NOTE Confidence: 0.8136516

01:08:32.742 --> 01:08:34.566 old who would have rectal bleeding  
NOTE Confidence: 0.8136516

01:08:34.566 --> 01:08:36.756 and stuff like that was just when  
NOTE Confidence: 0.8136516

01:08:36.756 --> 01:08:38.635 you have hemorrhoids and we would  
NOTE Confidence: 0.8136516

01:08:38.635 --> 01:08:39.835 not pay much attention.  
NOTE Confidence: 0.8136516

01:08:39.840 --> 01:08:41.905 Now we know that we can be  
NOTE Confidence: 0.8136516

01:08:41.905 --> 01:08:43.230 that LAX about that.  
NOTE Confidence: 0.8136516

01:08:43.230 --> 01:08:45.036 So I think that level of awareness  
NOTE Confidence: 0.8136516

01:08:45.036 --> 01:08:46.776 is also very important because even  
NOTE Confidence: 0.8136516

01:08:46.776 --> 01:08:48.890 going down to 45 there's still a  
NOTE Confidence: 0.8136516

01:08:48.950 --> 01:08:50.358 significant number of individuals  
NOTE Confidence: 0.8136516

01:08:50.358 --> 01:08:52.840 who are even younger than that like.

NOTE Confidence: 0.8136516

01:08:52.840 --> 01:08:53.580 The actor,

NOTE Confidence: 0.8136516

01:08:53.580 --> 01:08:56.598 who you know we would have been late

NOTE Confidence: 0.8136516

01:08:56.598 --> 01:08:59.140 for them too, so our awareness is very,

NOTE Confidence: 0.8136516

01:08:59.140 --> 01:09:00.246 very important.

NOTE Confidence: 0.8136516

01:09:00.246 --> 01:09:00.799 Great,

NOTE Confidence: 0.8726499

01:09:00.800 --> 01:09:03.352 thank you. I'm going to turn to Doctor

NOTE Confidence: 0.8726499

01:09:03.352 --> 01:09:05.994 Boyd and you know I think chemotherapy

NOTE Confidence: 0.8726499

01:09:05.994 --> 01:09:08.621 and oncologists get kind of a bad

NOTE Confidence: 0.8726499

01:09:08.621 --> 01:09:10.805 rap and I'm wondering if you can

NOTE Confidence: 0.8726499

01:09:10.805 --> 01:09:12.780 comment on sort of chemotherapy and

NOTE Confidence: 0.8726499

01:09:12.780 --> 01:09:15.506 is it really all that bad and maybe

NOTE Confidence: 0.8726499

01:09:15.506 --> 01:09:17.830 some about the side effects and how

NOTE Confidence: 0.8726499

01:09:17.900 --> 01:09:20.066 we help get patients through it.

NOTE Confidence: 0.7877553

01:09:21.570 --> 01:09:25.098 As I mentioned, one of the keys to treating

NOTE Confidence: 0.7877553

01:09:25.098 --> 01:09:26.867 particularly with metastatic disease

NOTE Confidence: 0.7877553

01:09:26.867 --> 01:09:29.905 is really tailoring it to the patient,  
NOTE Confidence: 0.7877553

01:09:29.910 --> 01:09:33.258 so we have a way ways of using the  
NOTE Confidence: 0.7877553

01:09:33.258 --> 01:09:36.167 medicines that will limit side effects.  
NOTE Confidence: 0.7877553

01:09:36.170 --> 01:09:37.415 Potentially use alternating  
NOTE Confidence: 0.7877553

01:09:37.415 --> 01:09:39.075 regiments or lower doses.  
NOTE Confidence: 0.7877553

01:09:39.080 --> 01:09:41.999 When we think are developing side effect.  
NOTE Confidence: 0.7877553

01:09:42.000 --> 01:09:44.090 The example, as I mentioned,  
NOTE Confidence: 0.7877553

01:09:44.090 --> 01:09:46.586 is folfox contains the Asian oxaliplatin,  
NOTE Confidence: 0.7877553

01:09:46.590 --> 01:09:49.086 which produces a significant or opathy,  
NOTE Confidence: 0.7877553

01:09:49.090 --> 01:09:51.180 which, if continued on treatment,  
NOTE Confidence: 0.7877553

01:09:51.180 --> 01:09:51.800 will worsen.  
NOTE Confidence: 0.7877553

01:09:51.800 --> 01:09:53.970 And has effects on quality of life.  
NOTE Confidence: 0.7877553

01:09:53.970 --> 01:09:55.392 You have a person's a musician  
NOTE Confidence: 0.7877553

01:09:55.392 --> 01:09:57.383 is going to have a big effect on  
NOTE Confidence: 0.7877553

01:09:57.383 --> 01:09:58.865 their ability to play the guitar.  
NOTE Confidence: 0.7877553

01:09:58.870 --> 01:10:00.646 If they can't feel the strings.

NOTE Confidence: 0.7877553

01:10:00.650 --> 01:10:03.260 And those are things that we now think about.

NOTE Confidence: 0.7877553

01:10:03.260 --> 01:10:05.580 We think about how do we say OK,

NOTE Confidence: 0.7877553

01:10:05.580 --> 01:10:07.320 we're starting to get a little

NOTE Confidence: 0.7877553

01:10:07.320 --> 01:10:08.480 bit of the scientific.

NOTE Confidence: 0.7877553

01:10:08.480 --> 01:10:10.220 Let's hold off on the xle.

NOTE Confidence: 0.7877553

01:10:10.220 --> 01:10:12.138 Platten will keep you on the other

NOTE Confidence: 0.7877553

01:10:12.138 --> 01:10:14.278 edge on the rest of the regiment.

NOTE Confidence: 0.7877553

01:10:14.280 --> 01:10:15.730 The backbone of the five.

NOTE Confidence: 0.7877553

01:10:15.730 --> 01:10:17.690 If you look at Warren with the

NOTE Confidence: 0.7877553

01:10:17.690 --> 01:10:19.666 infusion and then we can give you

NOTE Confidence: 0.7877553

01:10:19.666 --> 01:10:21.274 a little holiday from that and

NOTE Confidence: 0.7877553

01:10:21.341 --> 01:10:23.267 then we can reintroduce it later.

NOTE Confidence: 0.7877553

01:10:23.270 --> 01:10:25.406 And so I think we're learning how with

NOTE Confidence: 0.7877553

01:10:25.406 --> 01:10:27.235 better agents and with more careful

NOTE Confidence: 0.7877553

01:10:27.235 --> 01:10:28.780 attention to these side effects.

NOTE Confidence: 0.7877553

01:10:28.780 --> 01:10:30.200 Another example is folfiri,  
NOTE Confidence: 0.7877553

01:10:30.200 --> 01:10:31.975 which is a remote can't.  
NOTE Confidence: 0.7877553

01:10:31.980 --> 01:10:32.892 And what's interesting,  
NOTE Confidence: 0.7877553

01:10:32.892 --> 01:10:35.515 better in Attican is it has this ability  
NOTE Confidence: 0.7877553

01:10:35.515 --> 01:10:37.690 to generate fairly significant diarrhea,  
NOTE Confidence: 0.7877553

01:10:37.690 --> 01:10:39.480 and there's certain people interesting,  
NOTE Confidence: 0.7877553

01:10:39.480 --> 01:10:39.824 Lee.  
NOTE Confidence: 0.7877553

01:10:39.824 --> 01:10:42.232 It's been shown that people in the  
NOTE Confidence: 0.7877553

01:10:42.232 --> 01:10:44.439 Southeastern US are more prone to  
NOTE Confidence: 0.7877553

01:10:44.439 --> 01:10:46.617 adverse effects with the red attendance.  
NOTE Confidence: 0.7877553

01:10:46.620 --> 01:10:48.853 We may start with a lower dose  
NOTE Confidence: 0.7877553

01:10:48.853 --> 01:10:51.082 in some individuals is a very  
NOTE Confidence: 0.7877553

01:10:51.082 --> 01:10:52.686 common condition called Gilbert's.  
NOTE Confidence: 0.7877553

01:10:52.690 --> 01:10:55.547 We know that maybe 5 to 8% of  
NOTE Confidence: 0.7877553

01:10:55.547 --> 01:10:57.689 patients will have a little mild  
NOTE Confidence: 0.7877553

01:10:57.689 --> 01:10:58.760 elevation in bilirubin,

NOTE Confidence: 0.7877553

01:10:58.760 --> 01:11:00.938 but that's in clue to metabolic

NOTE Confidence: 0.7877553

01:11:00.938 --> 01:11:02.808 changes that may enhance the

NOTE Confidence: 0.7877553

01:11:02.808 --> 01:11:04.538 side effect of their energy.

NOTE Confidence: 0.7877553

01:11:04.540 --> 01:11:04.841 Yeah,

NOTE Confidence: 0.7877553

01:11:04.841 --> 01:11:07.550 so if we're alert to some of these genetic

NOTE Confidence: 0.7877553

01:11:07.615 --> 01:11:09.997 differences in metabolism of the drug,

NOTE Confidence: 0.7877553

01:11:10.000 --> 01:11:12.040 we can start ahead of time,

NOTE Confidence: 0.7877553

01:11:12.040 --> 01:11:14.301 reduce the dose and affectively treat them

NOTE Confidence: 0.7877553

01:11:14.301 --> 01:11:16.478 with lower doses without causing risk.

NOTE Confidence: 0.7877553

01:11:16.480 --> 01:11:19.540 And so I think that's always been the goal.

NOTE Confidence: 0.7877553

01:11:19.540 --> 01:11:21.586 How do we modulate the treatment?

NOTE Confidence: 0.7877553

01:11:21.590 --> 01:11:23.636 Pay careful attention to side effects,

NOTE Confidence: 0.7877553

01:11:23.640 --> 01:11:24.320 adjust it,

NOTE Confidence: 0.7877553

01:11:24.320 --> 01:11:26.360 lower doses when they're doing well,

NOTE Confidence: 0.7877553

01:11:26.360 --> 01:11:27.965 and even treatment Holidays to

NOTE Confidence: 0.7877553

01:11:27.965 --> 01:11:30.120 let them get past side effects.  
NOTE Confidence: 0.7877553

01:11:30.120 --> 01:11:31.608 Retain quality of life.  
NOTE Confidence: 0.7877553

01:11:31.608 --> 01:11:34.235 'cause I think quality of life is  
NOTE Confidence: 0.7877553

01:11:34.235 --> 01:11:36.468 always the issue for all of these.  
NOTE Confidence: 0.7877553

01:11:36.470 --> 01:11:37.398 For all our patients.  
NOTE Confidence: 0.87595516

01:11:38.990 --> 01:11:40.750 Great thank you Doctor Mcwhorter.  
NOTE Confidence: 0.87595516

01:11:40.750 --> 01:11:42.998 I have a question for you so I  
NOTE Confidence: 0.87595516

01:11:42.998 --> 01:11:45.138 think that you know one question  
NOTE Confidence: 0.87595516

01:11:45.138 --> 01:11:47.400 that patients often bring up when  
NOTE Confidence: 0.87595516

01:11:47.470 --> 01:11:49.390 we're talking about surgery for  
NOTE Confidence: 0.87595516

01:11:49.390 --> 01:11:52.333 rectal cancers is will I get a bag?  
NOTE Confidence: 0.87595516

01:11:52.333 --> 01:11:54.720 Can you talk about what that means  
NOTE Confidence: 0.87595516

01:11:54.800 --> 01:11:57.528 and the quality of life if they end  
NOTE Confidence: 0.87595516

01:11:57.528 --> 01:12:00.109 up having to have a colostomy bag?  
NOTE Confidence: 0.5346452

01:12:01.400 --> 01:12:06.424 Store. So I can sort of divide  
NOTE Confidence: 0.5346452

01:12:06.424 --> 01:12:09.100 the conversation into two pieces.

NOTE Confidence: 0.5346452

01:12:09.100 --> 01:12:12.424 One is a permanent bag and

NOTE Confidence: 0.5346452

01:12:12.424 --> 01:12:15.260 one is a temporary bag.

NOTE Confidence: 0.5346452

01:12:15.260 --> 01:12:17.516 When do patients get permanent bags?

NOTE Confidence: 0.5346452

01:12:17.520 --> 01:12:20.313 That the time that a colostomy is

NOTE Confidence: 0.5346452

01:12:20.313 --> 01:12:23.000 permanent is when a rectal cancer is

NOTE Confidence: 0.5346452

01:12:23.000 --> 01:12:25.910 so low meaning so near the edge of

NOTE Confidence: 0.5346452

01:12:25.910 --> 01:12:28.450 your body near your \*\*\*\* that the

NOTE Confidence: 0.5346452

01:12:28.450 --> 01:12:30.700 sphincter muscles have to be removed

NOTE Confidence: 0.5346452

01:12:30.700 --> 01:12:32.977 in order to remove the cancer.

NOTE Confidence: 0.5346452

01:12:32.980 --> 01:12:34.009 In that scenario,

NOTE Confidence: 0.5346452

01:12:34.009 --> 01:12:36.410 a person is not going to be

NOTE Confidence: 0.5346452

01:12:36.492 --> 01:12:38.627 continent or in other words,

NOTE Confidence: 0.5346452

01:12:38.630 --> 01:12:41.120 able to control their bowels.

NOTE Confidence: 0.5346452

01:12:41.120 --> 01:12:43.885 In that one scenario where you will

NOTE Confidence: 0.5346452

01:12:43.885 --> 01:12:47.010 never be able to control your bowels,

NOTE Confidence: 0.5346452



01:12:47.010 --> 01:12:50.892 a colostomy needs to be a  
NOTE Confidence: 0.5346452

01:12:50.892 --> 01:12:52.186 permanent situation.  
NOTE Confidence: 0.5346452

01:12:52.190 --> 01:12:55.878 What's more common is to have a bag  
NOTE Confidence: 0.5346452

01:12:55.878 --> 01:12:59.220 which is going to be temporary.  
NOTE Confidence: 0.5346452

01:12:59.220 --> 01:13:02.223 And the reason that we do that  
NOTE Confidence: 0.5346452

01:13:02.223 --> 01:13:04.080 sometimes is is that.  
NOTE Confidence: 0.5346452

01:13:04.080 --> 01:13:06.824 One of the most risky parts of  
NOTE Confidence: 0.5346452

01:13:06.824 --> 01:13:08.735 an intestinal operation is not  
NOTE Confidence: 0.5346452

01:13:08.735 --> 01:13:10.697 the taking out of the cancer,  
NOTE Confidence: 0.5346452

01:13:10.700 --> 01:13:12.908 but is in the putting back  
NOTE Confidence: 0.5346452

01:13:12.908 --> 01:13:14.380 together of the intestine,  
NOTE Confidence: 0.5346452

01:13:14.380 --> 01:13:16.220 and particularly for rectal cancer,  
NOTE Confidence: 0.5346452

01:13:16.220 --> 01:13:18.796 which is low down in the pelvis.  
NOTE Confidence: 0.5346452

01:13:18.800 --> 01:13:21.596 It is a technically more difficult  
NOTE Confidence: 0.5346452

01:13:21.596 --> 01:13:23.999 operation for your surgeon to do.  
NOTE Confidence: 0.5346452

01:13:24.000 --> 01:13:26.610 It's the healing can also be

NOTE Confidence: 0.5346452

01:13:26.610 --> 01:13:28.350 compromised when prior chemotherapy

NOTE Confidence: 0.5346452

01:13:28.420 --> 01:13:30.630 and prior radiation therapy have

NOTE Confidence: 0.5346452

01:13:30.630 --> 01:13:32.840 been delivered to those tissues,

NOTE Confidence: 0.5346452

01:13:32.840 --> 01:13:36.655 so they're not as good at healing.

NOTE Confidence: 0.5346452

01:13:36.660 --> 01:13:37.668 In that scenario,

NOTE Confidence: 0.5346452

01:13:37.668 --> 01:13:39.684 where where we've had a difficult

NOTE Confidence: 0.5346452

01:13:39.684 --> 01:13:41.659 operation that may or may

NOTE Confidence: 0.5346452

01:13:41.659 --> 01:13:43.243 not have involved radiation

NOTE Confidence: 0.5346452

01:13:43.243 --> 01:13:44.035 chemotherapy preoperatively,

NOTE Confidence: 0.5346452

01:13:44.040 --> 01:13:46.616 but we put the intestine back together,

NOTE Confidence: 0.5346452

01:13:46.620 --> 01:13:49.476 we have some concern that our handiwork

NOTE Confidence: 0.5346452

01:13:49.476 --> 01:13:52.894 is not going to is not going to hold up,

NOTE Confidence: 0.5346452

01:13:52.900 --> 01:13:55.120 and that a patient can have

NOTE Confidence: 0.5346452

01:13:55.120 --> 01:13:57.640 a leak at their connection.

NOTE Confidence: 0.5346452

01:13:57.640 --> 01:13:59.116 In that scenario,

NOTE Confidence: 0.5346452

01:13:59.116 --> 01:14:02.068 we sometimes leave a patient temporarily

NOTE Confidence: 0.5346452

01:14:02.068 --> 01:14:04.597 with a colostomy or ileostomy,

NOTE Confidence: 0.5346452

01:14:04.600 --> 01:14:07.972 meaning the stool gets diverted through

NOTE Confidence: 0.5346452

01:14:07.972 --> 01:14:11.559 their skin and into an appliance.

NOTE Confidence: 0.5346452

01:14:11.560 --> 01:14:13.918 Leaving time that their body could

NOTE Confidence: 0.5346452

01:14:13.918 --> 01:14:16.756 heal a a a connection that that

NOTE Confidence: 0.5346452

01:14:16.756 --> 01:14:20.161 had a leak to it and the patient

NOTE Confidence: 0.5346452

01:14:20.161 --> 01:14:22.996 would not suffer the frankly

NOTE Confidence: 0.5346452

01:14:22.996 --> 01:14:25.726 disastrous effects of having stool

NOTE Confidence: 0.5346452

01:14:25.726 --> 01:14:28.006 spill inside of their body.

NOTE Confidence: 0.5346452

01:14:28.010 --> 01:14:31.538 And it would be at a later date

NOTE Confidence: 0.5346452

01:14:31.538 --> 01:14:33.454 that another operation would

NOTE Confidence: 0.5346452

01:14:33.454 --> 01:14:37.150 be done to get rid of the bag.

NOTE Confidence: 0.5346452

01:14:37.150 --> 01:14:39.630 Once we have confirmation that

NOTE Confidence: 0.5346452

01:14:39.630 --> 01:14:42.110 the the connection healed so.

NOTE Confidence: 0.5346452

01:14:42.110 --> 01:14:44.852 Patients with rectal cancer have much

NOTE Confidence: 0.5346452

01:14:44.852 --> 01:14:47.739 higher incidences of having to have a bag,

NOTE Confidence: 0.5346452

01:14:47.740 --> 01:14:49.965 and Fortunately usually it's temporary

NOTE Confidence: 0.5346452

01:14:49.965 --> 01:14:52.870 as compared to colon cancer patients.

NOTE Confidence: 0.5346452

01:14:52.870 --> 01:14:53.170 Great

NOTE Confidence: 0.8047373

01:14:53.170 --> 01:14:55.249 thank you. Did you want to quickly?

NOTE Confidence: 0.8047373

01:14:55.250 --> 01:14:57.014 There was a quick question that

NOTE Confidence: 0.8047373

01:14:57.014 --> 01:14:59.129 was in there also on the average

NOTE Confidence: 0.8047373

01:14:59.129 --> 01:15:00.887 time span of a polyp becoming

NOTE Confidence: 0.8047373

01:15:00.890 --> 01:15:03.039 a cancer. Yeah, I'll I'll ask for

NOTE Confidence: 0.8047373

01:15:03.039 --> 01:15:06.440 doctor yours help with it too, but.

NOTE Confidence: 0.8047373

01:15:06.440 --> 01:15:10.566 To be simple. I think that most

NOTE Confidence: 0.8047373

01:15:10.566 --> 01:15:12.311 patient most people are aware

NOTE Confidence: 0.8047373

01:15:12.311 --> 01:15:14.677 that that our our societies have

NOTE Confidence: 0.8047373

01:15:14.677 --> 01:15:16.622 recommended that you can wait.

NOTE Confidence: 0.8047373

01:15:16.630 --> 01:15:18.568 If you're an average risk patient

NOTE Confidence: 0.8047373

01:15:18.568 --> 01:15:20.730 who's had prior normal colonoscopies,  
NOTE Confidence: 0.8047373

01:15:20.730 --> 01:15:22.968 meaning there have not been polyps  
NOTE Confidence: 0.8047373

01:15:22.968 --> 01:15:26.357 that you can wait up to 10 years to  
NOTE Confidence: 0.8047373

01:15:26.357 --> 01:15:28.182 have your colonoscopy done again,  
NOTE Confidence: 0.8047373

01:15:28.190 --> 01:15:30.060 and the reason for that.  
NOTE Confidence: 0.8047373

01:15:30.060 --> 01:15:32.030 The recommendation of that time  
NOTE Confidence: 0.8047373

01:15:32.030 --> 01:15:35.217 period is that it has been found that  
NOTE Confidence: 0.8047373

01:15:35.217 --> 01:15:37.491 if you have a normal colonoscopy  
NOTE Confidence: 0.8047373

01:15:37.491 --> 01:15:39.960 on day zero that you can wait.  
NOTE Confidence: 0.8047373

01:15:39.960 --> 01:15:42.536 For up to those ten years before  
NOTE Confidence: 0.8047373

01:15:42.536 --> 01:15:45.857 a new growth has gone through the  
NOTE Confidence: 0.8047373

01:15:45.857 --> 01:15:47.985 polyp to cancer transformation,  
NOTE Confidence: 0.8047373

01:15:47.990 --> 01:15:50.727 that's not one size fits all patients  
NOTE Confidence: 0.8047373

01:15:50.727 --> 01:15:53.436 who have had prior colonoscopies that  
NOTE Confidence: 0.8047373

01:15:53.436 --> 01:15:56.346 have included some or many polyps  
NOTE Confidence: 0.8047373

01:15:56.346 --> 01:15:59.586 are going to be recommended by their

NOTE Confidence: 0.8047373

01:15:59.586 --> 01:16:02.262 gastrinologist to have a colonoscopy in

NOTE Confidence: 0.8047373

01:16:02.262 --> 01:16:05.830 two years or three years or five years.

NOTE Confidence: 0.8047373

01:16:05.830 --> 01:16:09.617 But there is some biology to the

NOTE Confidence: 0.8047373

01:16:09.617 --> 01:16:12.210 recommendation that you can wait.

NOTE Confidence: 0.8047373

01:16:12.210 --> 01:16:15.800 A different number of years.

NOTE Confidence: 0.8047373

01:16:15.800 --> 01:16:16.200 After

NOTE Confidence: 0.8430601

01:16:16.200 --> 01:16:17.418 you are anything

NOTE Confidence: 0.8430601

01:16:17.420 --> 01:16:19.838 to add to that no 100%

NOTE Confidence: 0.8430601

01:16:19.840 --> 01:16:21.049 agree. OK great.

NOTE Confidence: 0.92239356

01:16:23.820 --> 01:16:24.340 Yeah.

NOTE Confidence: 0.8338513

01:16:25.900 --> 01:16:28.190 Question is a technical one.

NOTE Confidence: 0.8338513

01:16:28.190 --> 01:16:31.640 Are the insurance companies covering?

NOTE Confidence: 0.8338513

01:16:31.640 --> 01:16:34.570 Colonoscopies for 45 year olds.

NOTE Confidence: 0.8338513

01:16:34.570 --> 01:16:35.890 So there there

NOTE Confidence: 0.8587768

01:16:35.890 --> 01:16:38.520 is a significant number of insurance

NOTE Confidence: 0.8587768

01:16:38.520 --> 01:16:41.160 companies that already now are covering.  
NOTE Confidence: 0.8587768

01:16:41.160 --> 01:16:43.980 There's been a significant and quite  
NOTE Confidence: 0.8587768

01:16:43.980 --> 01:16:47.300 fast move for coverage for 45 and older.  
NOTE Confidence: 0.8353517

01:16:48.490 --> 01:16:51.073 Yeah, I'm going to answer a quick  
NOTE Confidence: 0.8353517

01:16:51.073 --> 01:16:53.732 question that was in earlier on a  
NOTE Confidence: 0.8353517

01:16:53.732 --> 01:16:56.240 topic that I happened to specialize in.  
NOTE Confidence: 0.8353517

01:16:56.240 --> 01:16:58.394 So does treatment for a neuroendocrine  
NOTE Confidence: 0.8353517

01:16:58.394 --> 01:17:00.271 rectal or colon cancer differ  
NOTE Confidence: 0.8353517

01:17:00.271 --> 01:17:02.136 from that of an adenocarcinoma?  
NOTE Confidence: 0.8353517

01:17:02.140 --> 01:17:05.083 So the most common type of colon or rectal  
NOTE Confidence: 0.8353517

01:17:05.083 --> 01:17:07.677 cancer is this adenocarcinoma type that,  
NOTE Confidence: 0.8353517

01:17:07.680 --> 01:17:10.130 if it's what the cells look like  
NOTE Confidence: 0.8353517

01:17:10.130 --> 01:17:12.397 under the microscope in our pathology  
NOTE Confidence: 0.8353517

01:17:12.397 --> 01:17:14.689 colleagues help us figure that out.  
NOTE Confidence: 0.8353517

01:17:14.690 --> 01:17:17.266 I would say this surgical approach is  
NOTE Confidence: 0.8353517

01:17:17.266 --> 01:17:19.183 very similar, and Doctor Mcwhorter.

NOTE Confidence: 0.8353517

01:17:19.183 --> 01:17:20.356 Comment on that.

NOTE Confidence: 0.8353517

01:17:20.360 --> 01:17:22.520 It's the pre and post treatment

NOTE Confidence: 0.8353517

01:17:22.520 --> 01:17:23.960 approach that differ considerably.

NOTE Confidence: 0.8353517

01:17:23.960 --> 01:17:26.130 I would say that we usually do

NOTE Confidence: 0.8353517

01:17:26.130 --> 01:17:27.993 not use radiation or chemotherapy

NOTE Confidence: 0.8353517

01:17:27.993 --> 01:17:29.717 and that diseases again.

NOTE Confidence: 0.8353517

01:17:29.720 --> 01:17:31.520 There are some nuances there,

NOTE Confidence: 0.8353517

01:17:31.520 --> 01:17:33.320 but that's the simple answer.

NOTE Confidence: 0.8353517

01:17:33.320 --> 01:17:34.970 I had some questions that

NOTE Confidence: 0.8353517

01:17:34.970 --> 01:17:37.280 came in quite a bit earlier,

NOTE Confidence: 0.8353517

01:17:37.280 --> 01:17:40.780 kind of before the web and R that I might

NOTE Confidence: 0.8353517

01:17:40.871 --> 01:17:44.120 ask to the group and it's a lot about.

NOTE Confidence: 0.8353517

01:17:44.120 --> 01:17:46.640 You know how we work as teams.

NOTE Confidence: 0.8353517

01:17:46.640 --> 01:17:49.460 Some of the questions are around.

NOTE Confidence: 0.8353517

01:17:49.460 --> 01:17:51.482 You know, if a patient sees

NOTE Confidence: 0.8353517



01:17:51.482 --> 01:17:52.830 a General Medical oncologist,  
NOTE Confidence: 0.8353517

01:17:52.830 --> 01:17:54.958 how can they take advantage of using  
NOTE Confidence: 0.8353517

01:17:54.958 --> 01:17:57.209 some of the specialists at Yale?  
NOTE Confidence: 0.8353517

01:17:57.210 --> 01:17:59.569 And I think that's a great question,  
NOTE Confidence: 0.8353517

01:17:59.570 --> 01:18:02.146 and actually one that we were just talking  
NOTE Confidence: 0.8353517

01:18:02.146 --> 01:18:04.629 about as a panel before this started,  
NOTE Confidence: 0.8353517

01:18:04.630 --> 01:18:07.510 and maybe I'll start so as a kind of the  
NOTE Confidence: 0.8353517

01:18:07.588 --> 01:18:10.684 new director of the Yale GI Cancer program.  
NOTE Confidence: 0.8353517

01:18:10.690 --> 01:18:12.724 I'm actually thrilled to be on  
NOTE Confidence: 0.8353517

01:18:12.724 --> 01:18:14.400 the panel tonight with the,  
NOTE Confidence: 0.8353517

01:18:14.400 --> 01:18:15.072 you know,  
NOTE Confidence: 0.8353517

01:18:15.072 --> 01:18:16.416 Greenwich Care Center Dr.  
NOTE Confidence: 0.8353517

01:18:16.420 --> 01:18:19.795 You and I are both primarily at main campus.  
NOTE Confidence: 0.8353517

01:18:19.800 --> 01:18:22.208 I think that our goal is really  
NOTE Confidence: 0.8353517

01:18:22.208 --> 01:18:24.664 to be broadly inclusive of all  
NOTE Confidence: 0.8353517

01:18:24.664 --> 01:18:26.909 of our care center physicians,

NOTE Confidence: 0.8353517

01:18:26.910 --> 01:18:29.070 many of whom have special interests

NOTE Confidence: 0.8353517

01:18:29.070 --> 01:18:31.260 in GI cancers and expertise.

NOTE Confidence: 0.8353517

01:18:31.260 --> 01:18:33.675 And we have a lot of forums

NOTE Confidence: 0.8353517

01:18:33.675 --> 01:18:35.600 that we can interact,

NOTE Confidence: 0.8353517

01:18:35.600 --> 01:18:37.970 including something called a tumor board.

NOTE Confidence: 0.8353517

01:18:37.970 --> 01:18:40.076 The tumor Board is a multidisciplinary

NOTE Confidence: 0.8353517

01:18:40.076 --> 01:18:42.454 meeting of medical oncologists and surgeons

NOTE Confidence: 0.8353517

01:18:42.454 --> 01:18:44.286 and gastroenterologists and radiologists.

NOTE Confidence: 0.8353517

01:18:44.290 --> 01:18:47.845 And we all meet and talk about patient cases,

NOTE Confidence: 0.8353517

01:18:47.850 --> 01:18:49.682 but I might ask,

NOTE Confidence: 0.8353517

01:18:49.682 --> 01:18:50.598 you know?

NOTE Confidence: 0.8353517

01:18:50.600 --> 01:18:52.483 Where is Lee Boyd and Recorder to

NOTE Confidence: 0.8353517

01:18:52.483 --> 01:18:53.850 comment some on that too?

NOTE Confidence: 0.8353517

01:18:53.850 --> 01:18:55.210 And their vision for that.

NOTE Confidence: 0.77367604

01:18:57.690 --> 01:18:59.410 Whoever wants to go first. Doctor Lee.

NOTE Confidence: 0.83050025

01:19:00.920 --> 01:19:04.574 So yes, I think in many ways I having  
NOTE Confidence: 0.83050025

01:19:04.574 --> 01:19:08.588 an expert available to counsel patients  
NOTE Confidence: 0.83050025

01:19:08.588 --> 01:19:13.310 will enhance our program, obviously.  
NOTE Confidence: 0.83050025

01:19:13.310 --> 01:19:14.054 Not surprisingly,  
NOTE Confidence: 0.83050025

01:19:14.054 --> 01:19:16.658 when a person gets diagnosed with cancer,  
NOTE Confidence: 0.83050025

01:19:16.660 --> 01:19:19.257 whether it be early or late stages,  
NOTE Confidence: 0.83050025

01:19:19.260 --> 01:19:22.167 they meet with one of us on the medical  
NOTE Confidence: 0.83050025

01:19:22.167 --> 01:19:23.819 oncologists received recommendation and  
NOTE Confidence: 0.83050025

01:19:23.819 --> 01:19:27.070 it's not uncommon and quite natural to say,  
NOTE Confidence: 0.83050025

01:19:27.070 --> 01:19:29.308 OK, you know you've explained things.  
NOTE Confidence: 0.83050025

01:19:29.310 --> 01:19:32.062 Could we get a second opinion and we  
NOTE Confidence: 0.83050025

01:19:32.062 --> 01:19:34.085 of course University saying that's  
NOTE Confidence: 0.83050025

01:19:34.085 --> 01:19:37.428 a good idea and we do recommend well  
NOTE Confidence: 0.83050025

01:19:37.428 --> 01:19:40.084 if you got to see a second opinion,  
NOTE Confidence: 0.83050025

01:19:40.090 --> 01:19:43.154 please go see a person who specializes in.  
NOTE Confidence: 0.83050025

01:19:43.160 --> 01:19:45.596 Or cancer of that specific type.

NOTE Confidence: 0.83050025

01:19:45.600 --> 01:19:49.776 And and an expert like doctor clients or her

NOTE Confidence: 0.83050025

01:19:49.776 --> 01:19:53.030 colleagues at Yale would be a big resource.

NOTE Confidence: 0.83050025

01:19:53.030 --> 01:19:55.879 And if we are able to then

NOTE Confidence: 0.83050025

01:19:55.879 --> 01:19:58.269 offer that type of service,

NOTE Confidence: 0.83050025

01:19:58.270 --> 01:20:00.610 well, you know with with.

NOTE Confidence: 0.83050025

01:20:00.610 --> 01:20:03.291 Covid one adventure we have now become

NOTE Confidence: 0.83050025

01:20:03.291 --> 01:20:06.288 quite adapted this this a Tele health where

NOTE Confidence: 0.83050025

01:20:06.288 --> 01:20:09.010 our clinicians can be viewed to pathology.

NOTE Confidence: 0.83050025

01:20:09.010 --> 01:20:12.066 The radio graphic data and get really good.

NOTE Confidence: 0.83050025

01:20:12.070 --> 01:20:13.654 You know, a recommendation.

NOTE Confidence: 0.83050025

01:20:13.654 --> 01:20:16.826 But in the past you would have to

NOTE Confidence: 0.83050025

01:20:16.826 --> 01:20:19.325 be that our patients would have to,

NOTE Confidence: 0.83050025

01:20:19.330 --> 01:20:21.616 you know, go to New Haven.

NOTE Confidence: 0.83050025

01:20:21.620 --> 01:20:23.912 But if we could have that

NOTE Confidence: 0.83050025

01:20:23.912 --> 01:20:25.440 expertise in our community,

NOTE Confidence: 0.83050025

01:20:25.440 --> 01:20:28.269 say, you know.  
NOTE Confidence: 0.83050025

01:20:28.270 --> 01:20:31.574 A week or so many days a week,  
NOTE Confidence: 0.83050025

01:20:31.580 --> 01:20:34.955 I think it'll be great and I think it'll  
NOTE Confidence: 0.83050025

01:20:34.955 --> 01:20:38.208 be a great option for our patients.  
NOTE Confidence: 0.83050025

01:20:38.210 --> 01:20:40.754 There are more common conditions where  
NOTE Confidence: 0.83050025

01:20:40.754 --> 01:20:43.700 you know things appear to be much  
NOTE Confidence: 0.83050025

01:20:43.700 --> 01:20:45.655 more following along an algorithm,  
NOTE Confidence: 0.83050025

01:20:45.660 --> 01:20:48.964 but our our illness it you know it's  
NOTE Confidence: 0.83050025

01:20:48.964 --> 01:20:51.991 it's quite different from one person  
NOTE Confidence: 0.83050025

01:20:51.991 --> 01:20:55.153 to another and having an expertise  
NOTE Confidence: 0.83050025

01:20:55.250 --> 01:20:58.330 as someone who has great number of.  
NOTE Confidence: 0.83050025

01:20:58.330 --> 01:21:00.340 You know your situation where that  
NOTE Confidence: 0.83050025

01:21:00.340 --> 01:21:02.572 person could have handled or come across  
NOTE Confidence: 0.83050025

01:21:02.572 --> 01:21:04.525 the situation I think would be very  
NOTE Confidence: 0.83050025

01:21:04.583 --> 01:21:06.759 helpful to all of our patients as well.  
NOTE Confidence: 0.83050025

01:21:06.760 --> 01:21:07.090 Yeah,

NOTE Confidence: 0.8819299299999999  
01:21:07.090 --> 01:21:09.594 and you know I often tell patients that  
NOTE Confidence: 0.8819299299999999  
01:21:09.594 --> 01:21:11.893 they have the best of both worlds by  
NOTE Confidence: 0.8819299299999999  
01:21:11.893 --> 01:21:14.199 having a doc in their community and  
NOTE Confidence: 0.8819299299999999  
01:21:14.199 --> 01:21:16.144 connection with an academic center  
NOTE Confidence: 0.8819299299999999  
01:21:16.144 --> 01:21:18.555 and we can really share and taking  
NOTE Confidence: 0.8819299299999999  
01:21:18.555 --> 01:21:20.901 care of the patient where they can  
NOTE Confidence: 0.8819299299999999  
01:21:20.901 --> 01:21:23.176 get their infusions closer to home and  
NOTE Confidence: 0.8819299299999999  
01:21:23.176 --> 01:21:25.167 maybe occasionally have if they need  
NOTE Confidence: 0.8819299299999999  
01:21:25.167 --> 01:21:27.408 an extra input from a specialist or  
NOTE Confidence: 0.8819299299999999  
01:21:27.408 --> 01:21:29.641 access to a clinical trial that may  
NOTE Confidence: 0.8819299299999999  
01:21:29.641 --> 01:21:32.015 not be available at that care center.  
NOTE Confidence: 0.8819299299999999  
01:21:32.020 --> 01:21:33.660 Although we're working on that,  
NOTE Confidence: 0.8819299299999999  
01:21:33.660 --> 01:21:35.622 I think that that collaboration can  
NOTE Confidence: 0.8819299299999999  
01:21:35.622 --> 01:21:37.662 work quite well, especially as.  
NOTE Confidence: 0.8819299299999999  
01:21:37.662 --> 01:21:41.344 The Smilow Care Center Network is expanding.  
NOTE Confidence: 0.8819299299999999

01:21:41.350 --> 01:21:43.359 Doctor Boyd, do you have any comments

NOTE Confidence: 0.8886146

01:21:43.360 --> 01:21:45.034 on that? Yeah, I think it's

NOTE Confidence: 0.8886146

01:21:45.034 --> 01:21:46.799 actually a wonderful two way street.

NOTE Confidence: 0.8886146

01:21:46.800 --> 01:21:49.131 I think what I've found is not only is

NOTE Confidence: 0.8886146

01:21:49.131 --> 01:21:51.531 it great to get on the phone and call

NOTE Confidence: 0.8886146

01:21:51.531 --> 01:21:54.092 one of my colleagues at Yale with a

NOTE Confidence: 0.8886146

01:21:54.092 --> 01:21:56.654 difficult case and then be able to get

NOTE Confidence: 0.8886146

01:21:56.654 --> 01:21:59.459 the patient to be seen to discuss it.

NOTE Confidence: 0.8886146

01:21:59.460 --> 01:22:01.090 But on the other hand,

NOTE Confidence: 0.8886146

01:22:01.090 --> 01:22:03.004 patients are coming here because they

NOTE Confidence: 0.8886146

01:22:03.004 --> 01:22:05.380 live close to us and then they get

NOTE Confidence: 0.8886146

01:22:05.380 --> 01:22:07.383 the best of both worlds by getting

NOTE Confidence: 0.8886146

01:22:07.383 --> 01:22:09.687 there here in our center while

NOTE Confidence: 0.8886146

01:22:09.687 --> 01:22:11.165 simultaneously getting the expertise

NOTE Confidence: 0.8886146

01:22:11.165 --> 01:22:12.790 of yelling that's happened recently.

NOTE Confidence: 0.8886146

01:22:12.790 --> 01:22:14.740 Quite a few patients who would

NOTE Confidence: 0.8886146

01:22:14.740 --> 01:22:16.040 rather get care here.

NOTE Confidence: 0.8886146

01:22:16.040 --> 01:22:17.815 We have wonderful nursing care

NOTE Confidence: 0.8886146

01:22:17.815 --> 01:22:19.896 and yet still avail themselves of

NOTE Confidence: 0.8886146

01:22:19.896 --> 01:22:21.569 the expertise at Yale to be able

NOTE Confidence: 0.8886146

01:22:21.569 --> 01:22:23.623 to be sure there were overseeing

NOTE Confidence: 0.8886146

01:22:23.623 --> 01:22:25.139 everything at every step.

NOTE Confidence: 0.8886146

01:22:25.140 --> 01:22:26.516 Everyone is paying attention,

NOTE Confidence: 0.8886146

01:22:26.516 --> 01:22:29.040 so I think it really is a great

NOTE Confidence: 0.856775178

01:22:29.040 --> 01:22:30.090 collaboration. I agree.

NOTE Confidence: 0.856775178

01:22:30.090 --> 01:22:32.659 I agree, well we have a few minutes left.

NOTE Confidence: 0.856775178

01:22:32.660 --> 01:22:34.804 I'm going to end. We did a smile.

NOTE Confidence: 0.856775178

01:22:34.810 --> 01:22:36.412 Oh shares last week also with

NOTE Confidence: 0.856775178

01:22:36.412 --> 01:22:37.750 some kind of Northern arc.

NOTE Confidence: 0.856775178

01:22:37.750 --> 01:22:39.661 I guess near New Haven in northern

NOTE Confidence: 0.856775178

01:22:39.661 --> 01:22:41.282 Connecticut I'm going to end with

NOTE Confidence: 0.856775178



01:22:41.282 --> 01:22:42.574 the same questions. So Doctor,  
NOTE Confidence: 0.856775178

01:22:42.574 --> 01:22:44.443 your nose knows what I'm gonna end,  
NOTE Confidence: 0.856775178

01:22:44.450 --> 01:22:46.346 but I'd love for everyone to think about  
NOTE Confidence: 0.856775178

01:22:46.346 --> 01:22:48.449 what you are most hopeful for in the  
NOTE Confidence: 0.856775178

01:22:48.449 --> 01:22:50.080 world of colorectal cancer treatments.  
NOTE Confidence: 0.856775178

01:22:50.080 --> 01:22:51.753 An and and S on a positive  
NOTE Confidence: 0.856775178

01:22:51.753 --> 01:22:53.030 note for the evening,  
NOTE Confidence: 0.856775178

01:22:53.030 --> 01:22:54.906 so I'm going to start with Doctor.  
NOTE Confidence: 0.856775178

01:22:54.910 --> 01:22:56.190 You are since you knew  
NOTE Confidence: 0.856775178

01:22:56.190 --> 01:22:57.850 I was going to ask that.  
NOTE Confidence: 0.856775178

01:22:57.850 --> 01:22:58.930 Maybe I have the  
NOTE Confidence: 0.8332575

01:22:58.930 --> 01:23:02.467 feeling I have to answer the same which is.  
NOTE Confidence: 0.8332575

01:23:02.470 --> 01:23:04.689 Making sure we have less and less cancer,  
NOTE Confidence: 0.8332575

01:23:04.690 --> 01:23:05.786 we can prevent it.  
NOTE Confidence: 0.8332575

01:23:05.786 --> 01:23:08.009 This is a very among all of them.  
NOTE Confidence: 0.8332575

01:23:08.010 --> 01:23:09.400 It's a very preventable one.

NOTE Confidence: 0.8332575

01:23:09.400 --> 01:23:11.056 We gotta keep working on that,

NOTE Confidence: 0.8332575

01:23:11.060 --> 01:23:13.076 and I'm not gonna say that I

NOTE Confidence: 0.8332575

01:23:13.076 --> 01:23:14.487 want the oncologist out of

NOTE Confidence: 0.8332575

01:23:14.487 --> 01:23:16.044 business as I did say before.

NOTE Confidence: 0.8332575

01:23:16.044 --> 01:23:17.745 But definitely I want to make sure

NOTE Confidence: 0.8332575

01:23:17.745 --> 01:23:19.627 that we have less and less business

NOTE Confidence: 0.8332575

01:23:19.627 --> 01:23:21.307 for you and more prevention.

NOTE Confidence: 0.7181083

01:23:22.110 --> 01:23:26.370 Yes, doctor Mcwhertor how about you? It's

NOTE Confidence: 0.9298051

01:23:26.370 --> 01:23:29.230 hard to argue with that.

NOTE Confidence: 0.9298051

01:23:29.230 --> 01:23:32.070 This is I I've done other lectures before.

NOTE Confidence: 0.9298051

01:23:32.070 --> 01:23:34.510 As Doctor your points out.

NOTE Confidence: 0.9298051

01:23:34.510 --> 01:23:37.642 There are a lot of nasty cancers out there,

NOTE Confidence: 0.9298051

01:23:37.650 --> 01:23:40.240 and some of them we don't know

NOTE Confidence: 0.9298051

01:23:40.240 --> 01:23:42.189 when they're going to get us.

NOTE Confidence: 0.9298051

01:23:42.190 --> 01:23:45.088 Whenever we at this point have no way of

NOTE Confidence: 0.9298051

01:23:45.088 --> 01:23:47.770 knowing when pancreatic cancer may get us,

NOTE Confidence: 0.9298051

01:23:47.770 --> 01:23:50.474 we have tools already at our disposal to

NOTE Confidence: 0.9298051

01:23:50.474 --> 01:23:52.616 prevent colon cancer and rectal cancer

NOTE Confidence: 0.9298051

01:23:52.616 --> 01:23:55.100 if we simply avail ourselves of them.

NOTE Confidence: 0.9298051

01:23:55.100 --> 01:23:56.150 That's the hope.

NOTE Confidence: 0.7229785

01:23:57.300 --> 01:23:59.148 Great doctor Lee.

NOTE Confidence: 0.84880644

01:24:01.060 --> 01:24:03.356 I just echo that presenting a problem,

NOTE Confidence: 0.84880644

01:24:03.360 --> 01:24:05.688 whether it be cancer. Any problem

NOTE Confidence: 0.84880644

01:24:05.688 --> 01:24:08.859 is is the best thing you could do.

NOTE Confidence: 0.84880644

01:24:08.860 --> 01:24:11.086 Taking care of the problem at this

NOTE Confidence: 0.84880644

01:24:11.086 --> 01:24:13.458 earliest is the second best and then

NOTE Confidence: 0.84880644

01:24:13.458 --> 01:24:15.869 tackling the problem head on and coming

NOTE Confidence: 0.84880644

01:24:15.869 --> 01:24:18.095 up with better means of doing it.

NOTE Confidence: 0.84880644

01:24:18.100 --> 01:24:20.080 More successful and it's you know,

NOTE Confidence: 0.84880644

01:24:20.080 --> 01:24:22.720 less ideal, but it's still an important goal,

NOTE Confidence: 0.84880644

01:24:22.720 --> 01:24:24.925 so from you know from my life

NOTE Confidence: 0.84880644

01:24:24.925 --> 01:24:27.278 in a talk on agile, in therapy,

NOTE Confidence: 0.84880644

01:24:27.278 --> 01:24:28.773 so actually therapy will reduce

NOTE Confidence: 0.84880644

01:24:28.773 --> 01:24:30.310 the chance of recurrence.

NOTE Confidence: 0.84880644

01:24:30.310 --> 01:24:32.870 So we would like better medications that will

NOTE Confidence: 0.84880644

01:24:32.870 --> 01:24:34.599 effectively prevent recurrence of cancer.

NOTE Confidence: 0.84880644

01:24:34.600 --> 01:24:36.250 We don't have that yet,

NOTE Confidence: 0.84880644

01:24:36.250 --> 01:24:37.207 but you know,

NOTE Confidence: 0.84880644

01:24:37.207 --> 01:24:40.000 as the medications may I make it better.

NOTE Confidence: 0.84880644

01:24:40.000 --> 01:24:41.616 What targeted treatments maybe?

NOTE Confidence: 0.84880644

01:24:41.616 --> 01:24:44.580 Maybe in the not too distant future.

NOTE Confidence: 0.84880644

01:24:44.580 --> 01:24:47.485 Instead of giving blanket or solid platinum,

NOTE Confidence: 0.84880644

01:24:47.490 --> 01:24:49.335 will be able to specifically

NOTE Confidence: 0.84880644

01:24:49.335 --> 01:24:51.180 design up medication for that

NOTE Confidence: 0.84880644

01:24:51.245 --> 01:24:52.898 particular person's tumor,

NOTE Confidence: 0.84880644

01:24:52.900 --> 01:24:54.145 and really significantly

NOTE Confidence: 0.84880644

01:24:54.145 --> 01:24:56.220 reduced the risk of recurrence.  
NOTE Confidence: 0.8483166

01:24:57.670 --> 01:25:00.150 Great thank you and Doctor Boyd. Yeah I.  
NOTE Confidence: 0.8483166

01:25:00.150 --> 01:25:01.700 I actually have kind of  
NOTE Confidence: 0.8483166

01:25:01.700 --> 01:25:03.250 a mixture of all this.  
NOTE Confidence: 0.8483166

01:25:03.250 --> 01:25:05.259 I have great hope that we'll have  
NOTE Confidence: 0.8483166

01:25:05.259 --> 01:25:07.590 answers to some of the great conundrums.  
NOTE Confidence: 0.8483166

01:25:07.590 --> 01:25:10.678 Like why do young people get colon cancer?  
NOTE Confidence: 0.8483166

01:25:10.680 --> 01:25:12.728 No, Charlie Fuchs once said to me it's  
NOTE Confidence: 0.8483166

01:25:12.728 --> 01:25:14.667 because there's more obesity and there's not.  
NOTE Confidence: 0.8483166

01:25:14.670 --> 01:25:15.624 It's not obvious.  
NOTE Confidence: 0.8483166

01:25:15.624 --> 01:25:17.850 There's something else going on and we're  
NOTE Confidence: 0.8483166

01:25:17.911 --> 01:25:20.179 looking at everything from the microbiome.  
NOTE Confidence: 0.8483166

01:25:20.180 --> 01:25:21.770 That's something that hadn't really  
NOTE Confidence: 0.8483166

01:25:21.770 --> 01:25:24.010 been mentioned, but that's a huge issue.  
NOTE Confidence: 0.8483166

01:25:24.010 --> 01:25:26.236 How does that play a role here?  
NOTE Confidence: 0.8483166

01:25:26.240 --> 01:25:27.173 Learning about lifestyle,

NOTE Confidence: 0.8483166

01:25:27.173 --> 01:25:29.039 diet, all of the things that

NOTE Confidence: 0.8483166

01:25:29.039 --> 01:25:30.698 may early on influence this.

NOTE Confidence: 0.8483166

01:25:30.700 --> 01:25:32.998 Because why do black South Africans

NOTE Confidence: 0.8483166

01:25:32.998 --> 01:25:35.549 in 1970 never get colon cancer?

NOTE Confidence: 0.8483166

01:25:35.550 --> 01:25:37.215 They were doing something right

NOTE Confidence: 0.8483166

01:25:37.215 --> 01:25:39.290 and so I think we need.

NOTE Confidence: 0.8483166

01:25:39.290 --> 01:25:41.369 These are the future is to how

NOTE Confidence: 0.8483166

01:25:41.369 --> 01:25:43.369 do we affect our population,

NOTE Confidence: 0.8483166

01:25:43.370 --> 01:25:45.842 lower risk and then also how can we

NOTE Confidence: 0.8483166

01:25:45.842 --> 01:25:48.200 use really new or molecular techniques

NOTE Confidence: 0.8483166

01:25:48.200 --> 01:25:50.702 early on when somebody might recur

NOTE Confidence: 0.8483166

01:25:50.771 --> 01:25:52.787 and catch it before it occurs?

NOTE Confidence: 0.8483166

01:25:52.790 --> 01:25:53.762 With newer approaches,

NOTE Confidence: 0.8483166

01:25:53.762 --> 01:25:55.706 we don't yet have validated that

NOTE Confidence: 0.8483166

01:25:55.706 --> 01:25:57.760 can really start to impact patients

NOTE Confidence: 0.8483166

01:25:57.760 --> 01:25:59.930 before they get better static disease.

NOTE Confidence: 0.8483166

01:25:59.930 --> 01:26:01.910 After that edge of therapy and

NOTE Confidence: 0.8483166

01:26:01.910 --> 01:26:03.670 may still be at risk.

NOTE Confidence: 0.8502512

01:26:05.220 --> 01:26:06.576 Great, thank you.

NOTE Confidence: 0.8502512

01:26:06.576 --> 01:26:10.217 So I agree with all that has been

NOTE Confidence: 0.8502512

01:26:10.217 --> 01:26:13.201 said and I will also end with a

NOTE Confidence: 0.8502512

01:26:13.201 --> 01:26:16.627 a note of thanks to our audience

NOTE Confidence: 0.8502512

01:26:16.627 --> 01:26:19.046 for joining us this evening.

NOTE Confidence: 0.8502512

01:26:19.046 --> 01:26:21.276 Thank you to our panelists

NOTE Confidence: 0.8502512

01:26:21.276 --> 01:26:23.060 for their time tonight.

NOTE Confidence: 0.8502512

01:26:23.060 --> 01:26:26.441 We encourage our attendees to go to

NOTE Confidence: 0.8502512

01:26:26.441 --> 01:26:29.298 Yale Cancer website or or email us.

NOTE Confidence: 0.8502512

01:26:29.300 --> 01:26:31.844 I think those that that information

NOTE Confidence: 0.8502512

01:26:31.844 --> 01:26:34.099 was with the Lincoln Invitation

NOTE Confidence: 0.8502512

01:26:34.099 --> 01:26:36.955 and please spread the word about.

NOTE Confidence: 0.8502512

01:26:36.960 --> 01:26:37.998 Screening and prevention.

NOTE Confidence: 0.8502512

01:26:37.998 --> 01:26:41.167 I would say that you know Yale and our

NOTE Confidence: 0.8502512

01:26:41.167 --> 01:26:43.207 care centers are open for screening,

NOTE Confidence: 0.8502512

01:26:43.210 --> 01:26:44.594 even though we're still

NOTE Confidence: 0.8502512

01:26:44.594 --> 01:26:46.324 kind of in the pandemic.

NOTE Confidence: 0.8502512

01:26:46.330 --> 01:26:48.106 We really encourage you to get

NOTE Confidence: 0.8502512

01:26:48.106 --> 01:26:50.150 screened and get your colonoscopies.

NOTE Confidence: 0.8502512

01:26:50.150 --> 01:26:53.264 So with that I wish everyone a good evening.

NOTE Confidence: 0.8502512

01:26:53.270 --> 01:26:53.620 Thanks

NOTE Confidence: 0.8527547

01:26:53.620 --> 01:26:56.050 so much. Thank you thank you, bye.