

WEBVTT

00:00:00.000 --> 00:00:03.198 Funding for Yale Cancer Answers is

NOTE Confidence: 0.41334265

00:00:03.198 --> 00:00:06.240 provided by Smilow Cancer Hospital.

NOTE Confidence: 0.41334265

00:00:06.240 --> 00:00:08.460 Welcome to Yale Cancer Answers

NOTE Confidence: 0.41334265

00:00:08.460 --> 00:00:10.236 with Doctor Anees Chagpar.

NOTE Confidence: 0.41334265

00:00:10.240 --> 00:00:12.044 Yale Cancer Answers features the

NOTE Confidence: 0.41334265

00:00:12.044 --> 00:00:13.849 latest information on cancer care

NOTE Confidence: 0.41334265

00:00:13.849 --> 00:00:15.368 by welcoming oncologists and

NOTE Confidence: 0.41334265

00:00:15.368 --> 00:00:17.564 specialists who are on the forefront

NOTE Confidence: 0.41334265

00:00:17.564 --> 00:00:19.516 of the battle to fight cancer.

NOTE Confidence: 0.41334265

00:00:19.520 --> 00:00:21.956 This week it's a conversation about

NOTE Confidence: 0.41334265

00:00:21.956 --> 00:00:24.519 pancreatic cancer with Doctor Thiru Muniraj.

NOTE Confidence: 0.41334265

00:00:24.520 --> 00:00:26.405 Doctor Muniraj is an associate

NOTE Confidence: 0.41334265

00:00:26.405 --> 00:00:28.290 professor of medicine and digestive

NOTE Confidence: 0.41334265

00:00:28.348 --> 00:00:30.595 diseases at the Yale School of Medicine,

NOTE Confidence: 0.41334265

00:00:30.600 --> 00:00:32.784 where Doctor Chagpar is a professor

NOTE Confidence: 0.41334265

00:00:32.784 --> 00:00:33.876 of surgical oncology.  
NOTE Confidence: 0.42510977

00:00:35.120 --> 00:00:36.912 Maybe we can start off  
NOTE Confidence: 0.42510977

00:00:36.912 --> 00:00:38.994 by you telling us a little bit more  
NOTE Confidence: 0.42510977

00:00:38.994 --> 00:00:40.839 about yourself and what it is you do.  
NOTE Confidence: 0.42510977

00:00:41.160 --> 00:00:44.035 I'm a gastroenterologist and advanced  
NOTE Confidence: 0.42510977

00:00:44.035 --> 00:00:46.910 endoscopist with a special interest  
NOTE Confidence: 0.42510977

00:00:46.990 --> 00:00:50.266 and expertise in pancreas and my  
NOTE Confidence: 0.42510977

00:00:50.266 --> 00:00:52.878 journey was not straightforward.  
NOTE Confidence: 0.42510977

00:00:52.880 --> 00:00:55.196 I have been a physician for 25 years  
NOTE Confidence: 0.42510977

00:00:55.196 --> 00:00:56.354 in different continents,  
NOTE Confidence: 0.42510977

00:00:56.360 --> 00:00:58.838 kept open mind throughout and then  
NOTE Confidence: 0.42510977

00:00:58.838 --> 00:01:01.605 got into the pancreas and advanced  
NOTE Confidence: 0.42510977

00:01:01.605 --> 00:01:05.315 endoscopy field where I think it's a  
NOTE Confidence: 0.42510977

00:01:05.315 --> 00:01:07.832 perfect balance between good critical  
NOTE Confidence: 0.42510977

00:01:07.832 --> 00:01:10.568 thinking and procedural aspects to make  
NOTE Confidence: 0.42510977

00:01:10.568 --> 00:01:13.798 a good difference in someone's life,

NOTE Confidence: 0.42510977

00:01:13.800 --> 00:01:15.720 especially when dealing with

NOTE Confidence: 0.42510977

00:01:15.720 --> 00:01:17.640 problems like pancreatic cancer.

NOTE Confidence: 0.42510977

00:01:17.640 --> 00:01:21.200 So predominantly I do endoscopies,

NOTE Confidence: 0.42510977

00:01:21.200 --> 00:01:23.318 especially for pancreas and bile ducts.

NOTE Confidence: 0.6713272

00:01:23.800 --> 00:01:26.020 So as we're thinking about

NOTE Confidence: 0.6713272

00:01:26.020 --> 00:01:27.796 pancreatic cancer awareness month,

NOTE Confidence: 0.6713272

00:01:27.800 --> 00:01:29.384 it's one of those months that

NOTE Confidence: 0.6713272

00:01:29.384 --> 00:01:31.079 we know a little bit about.

NOTE Confidence: 0.6713272

00:01:31.080 --> 00:01:32.872 I think all of us have heard

NOTE Confidence: 0.6713272

00:01:32.872 --> 00:01:33.640 about pancreatic cancer.

NOTE Confidence: 0.6713272

00:01:33.640 --> 00:01:35.200 Certainly there have been a

NOTE Confidence: 0.6713272

00:01:35.200 --> 00:01:36.760 number of celebrities who have

NOTE Confidence: 0.6713272

00:01:36.814 --> 00:01:38.319 passed away of this disease,

NOTE Confidence: 0.6713272

00:01:38.320 --> 00:01:40.576 but it's not one of the ones that's

NOTE Confidence: 0.6713272

00:01:40.576 --> 00:01:42.895 top of mind like breast cancer or

NOTE Confidence: 0.6713272

00:01:42.895 --> 00:01:45.120 colon cancer or lung cancer.

NOTE Confidence: 0.6713272

00:01:45.120 --> 00:01:48.250 So can you give us a sense of

NOTE Confidence: 0.6713272

00:01:48.340 --> 00:01:51.560 the epidemiology of pancreatic cancer?

NOTE Confidence: 0.6713272

00:01:51.560 --> 00:01:52.800 How common is it?

NOTE Confidence: 0.6713272

00:01:52.800 --> 00:01:54.040 How lethal is it?

NOTE Confidence: 0.6713272

00:01:54.040 --> 00:01:55.300 Are there different kinds,

NOTE Confidence: 0.6713272

00:01:55.300 --> 00:01:56.560 that kind of thing?

NOTE Confidence: 0.75026006

00:01:57.960 --> 00:01:58.884 Yeah, sure.

NOTE Confidence: 0.75026006

00:01:58.884 --> 00:02:01.194 Like you already pointed out,

NOTE Confidence: 0.75026006

00:02:01.200 --> 00:02:03.172 this pancreatic cancer prevalence

NOTE Confidence: 0.75026006

00:02:03.172 --> 00:02:05.637 is going up every year.

NOTE Confidence: 0.75026006

00:02:05.640 --> 00:02:07.672 And more than that, the

NOTE Confidence: 0.75026006

00:02:07.672 --> 00:02:09.704 National Cancer Institute predicts

NOTE Confidence: 0.75026006

00:02:09.704 --> 00:02:12.133 that by 2030 pancreatic cancer

NOTE Confidence: 0.75026006

00:02:12.133 --> 00:02:14.959 will be the second leading cause of

NOTE Confidence: 0.75026006

00:02:14.959 --> 00:02:17.558 cancer death in the United States,

NOTE Confidence: 0.75026006

00:02:17.560 --> 00:02:20.180 leading the top three with

NOTE Confidence: 0.75026006

00:02:20.180 --> 00:02:22.800 lung cancer and colon cancer.

NOTE Confidence: 0.75026006

00:02:22.800 --> 00:02:26.048 Every year we see around 60,000 patients

NOTE Confidence: 0.75026006

00:02:26.048 --> 00:02:28.750 with pancreatic, a new diagnosis,

NOTE Confidence: 0.75026006

00:02:28.750 --> 00:02:32.025 but almost 50,000 patients die

NOTE Confidence: 0.75026006

00:02:32.025 --> 00:02:34.480 with pancreatic cancer too.

NOTE Confidence: 0.75026006

00:02:34.480 --> 00:02:37.636 We see in several other cancers,

NOTE Confidence: 0.75026006

00:02:37.640 --> 00:02:40.712 we are making a good change in the

NOTE Confidence: 0.75026006

00:02:40.712 --> 00:02:43.240 prognosis and the cancer treatment.

NOTE Confidence: 0.75026006

00:02:43.240 --> 00:02:44.280 But unfortunately,

NOTE Confidence: 0.75026006

00:02:44.280 --> 00:02:46.360 pancreatic cancer death rates

NOTE Confidence: 0.75026006

00:02:46.360 --> 00:02:47.920 are not falling at par with

NOTE Confidence: 0.75026006

00:02:47.920 --> 00:02:49.280 other cancers we deal with.

NOTE Confidence: 0.6986193

00:02:49.640 --> 00:02:51.872 Why is that? I mean, why is

NOTE Confidence: 0.6986193

00:02:51.872 --> 00:02:53.360 pancreatic cancer increasing?

NOTE Confidence: 0.6986193

00:02:53.920 --> 00:02:55.600 Yeah, there are a lot of risk factors,  
NOTE Confidence: 0.6986193

00:02:55.600 --> 00:02:58.876 but some of the risk factors  
NOTE Confidence: 0.6986193

00:02:58.876 --> 00:03:00.514 are not straightforward,  
NOTE Confidence: 0.6986193

00:03:00.520 --> 00:03:03.824 like smoking is one of the risk  
NOTE Confidence: 0.6986193

00:03:03.824 --> 00:03:06.399 factors, but a modifiable risk factor,  
NOTE Confidence: 0.6986193

00:03:06.400 --> 00:03:09.022 but the risk it causes pancreatic  
NOTE Confidence: 0.6986193

00:03:09.022 --> 00:03:12.320 cancer is not that great. And again,  
NOTE Confidence: 0.6986193

00:03:12.320 --> 00:03:15.296 obesity is increasing in the country.  
NOTE Confidence: 0.6986193

00:03:15.296 --> 00:03:19.358 Right now there's a prediction that by 2030  
NOTE Confidence: 0.6986193

00:03:19.360 --> 00:03:22.120 the incidence of obesity will be like 50%,  
NOTE Confidence: 0.6986193

00:03:22.120 --> 00:03:23.920 like everyone and every second  
NOTE Confidence: 0.6986193

00:03:23.920 --> 00:03:26.200 person we meet will be obese.  
NOTE Confidence: 0.6986193

00:03:26.200 --> 00:03:28.390 And obesity also causes a higher  
NOTE Confidence: 0.6986193

00:03:28.390 --> 00:03:31.359 risk to get a pancreatic cancer.  
NOTE Confidence: 0.6986193

00:03:31.360 --> 00:03:34.240 But even though those risks are very minimal,  
NOTE Confidence: 0.6986193

00:03:34.240 --> 00:03:35.920 there are genetic risks too,

NOTE Confidence: 0.6986193  
00:03:35.920 --> 00:03:37.624 which are not modifiable.  
NOTE Confidence: 0.6986193  
00:03:37.624 --> 00:03:41.050 And the family history,  
NOTE Confidence: 0.6986193  
00:03:41.050 --> 00:03:42.475 if someone has breast cancer,  
NOTE Confidence: 0.6986193  
00:03:42.480 --> 00:03:43.112 ovarian cancer,  
NOTE Confidence: 0.6986193  
00:03:43.112 --> 00:03:45.324 that puts them at a higher risk  
NOTE Confidence: 0.6986193  
00:03:45.324 --> 00:03:47.480 of getting a pancreatic cancer.  
NOTE Confidence: 0.6986193  
00:03:47.480 --> 00:03:49.562 And same that if someone  
NOTE Confidence: 0.6986193  
00:03:49.562 --> 00:03:52.420 has a first degree relative or a  
NOTE Confidence: 0.6986193  
00:03:52.420 --> 00:03:54.280 sibling with pancreatic cancer,  
NOTE Confidence: 0.6986193  
00:03:54.280 --> 00:03:56.253 they are four to five times higher  
NOTE Confidence: 0.6986193  
00:03:56.253 --> 00:03:57.826 chance of getting a pancreatic  
NOTE Confidence: 0.6986193  
00:03:57.826 --> 00:03:59.760 cancer than the general population.  
NOTE Confidence: 0.774854  
00:04:02.800 --> 00:04:05.640 So when we think about those risk factors,  
NOTE Confidence: 0.774854  
00:04:05.640 --> 00:04:08.706 I mean, presumably the genetics of  
NOTE Confidence: 0.774854  
00:04:08.706 --> 00:04:11.850 the population are going to remain  
NOTE Confidence: 0.774854

00:04:11.850 --> 00:04:14.158 relatively the same over time  
NOTE Confidence: 0.774854

00:04:14.158 --> 00:04:15.754 unless there's some predisposition  
NOTE Confidence: 0.774854

00:04:15.754 --> 00:04:18.028 for people with a particular  
NOTE Confidence: 0.774854

00:04:18.028 --> 00:04:20.624 mutation to be more proliferative  
NOTE Confidence: 0.774854

00:04:20.624 --> 00:04:23.600 in their birth rate than others.  
NOTE Confidence: 0.774854

00:04:23.600 --> 00:04:25.294 We know that the rates of smoking  
NOTE Confidence: 0.774854

00:04:25.294 --> 00:04:26.520 in general have declined.  
NOTE Confidence: 0.774854

00:04:26.520 --> 00:04:29.488 So is the reason why the pancreatic  
NOTE Confidence: 0.774854

00:04:29.488 --> 00:04:31.765 cancer rates are increasing really  
NOTE Confidence: 0.774854

00:04:31.765 --> 00:04:34.847 tied to the obesity rate or  
NOTE Confidence: 0.774854

00:04:34.847 --> 00:04:36.482 is there something else  
NOTE Confidence: 0.774854

00:04:36.482 --> 00:04:38.397 that's driving those rates up or  
NOTE Confidence: 0.774854

00:04:38.397 --> 00:04:39.762 is that something that's just  
NOTE Confidence: 0.774854

00:04:39.762 --> 00:04:41.398 not very clear at the moment?  
NOTE Confidence: 0.92663205

00:04:42.880 --> 00:04:44.360 Yeah, I think it's really  
NOTE Confidence: 0.92663205

00:04:44.360 --> 00:04:45.840 not clear at this moment.



NOTE Confidence: 0.92663205

00:04:45.840 --> 00:04:47.597 A lot of research goes into that,

NOTE Confidence: 0.92663205

00:04:47.600 --> 00:04:49.510 like predicting why the

NOTE Confidence: 0.92663205

00:04:49.510 --> 00:04:51.038 prevalence is going up.

NOTE Confidence: 0.92663205

00:04:51.040 --> 00:04:53.406 And also a lot of research is

NOTE Confidence: 0.92663205

00:04:53.406 --> 00:04:55.410 going into how can we diagnose

NOTE Confidence: 0.92663205

00:04:55.410 --> 00:04:57.210 these pancreatic cancer

NOTE Confidence: 0.92663205

00:04:57.210 --> 00:05:00.154 patients early enough so that we can

NOTE Confidence: 0.92663205

00:05:00.154 --> 00:05:02.146 really give a curative surgery or

NOTE Confidence: 0.92663205

00:05:02.146 --> 00:05:04.384 curative treatment so that we can

NOTE Confidence: 0.92663205

00:05:04.384 --> 00:05:06.639 minimize the cancer deaths as well.

NOTE Confidence: 0.74862117

00:05:07.920 --> 00:05:10.846 So let's dive into the screening

NOTE Confidence: 0.74862117

00:05:10.846 --> 00:05:13.039 in the prevention part of it.

NOTE Confidence: 0.74862117

00:05:13.040 --> 00:05:15.464 So certainly in terms of primary

NOTE Confidence: 0.74862117

00:05:15.464 --> 00:05:17.480 prevention or reducing one's risk,

NOTE Confidence: 0.74862117

00:05:17.480 --> 00:05:19.000 it sounds like

NOTE Confidence: 0.74862117

00:05:19.000 --> 00:05:22.640 the usual things that we advise almost  
NOTE Confidence: 0.74862117

00:05:22.640 --> 00:05:24.960 everybody, maintain an ideal body weight,  
NOTE Confidence: 0.74862117

00:05:24.960 --> 00:05:26.960 eat right, exercise, don't smoke,  
NOTE Confidence: 0.74862117

00:05:26.960 --> 00:05:29.879 don't drink, would apply here as well.  
NOTE Confidence: 0.74862117

00:05:29.880 --> 00:05:33.100 But when we think about prevention and  
NOTE Confidence: 0.74862117

00:05:33.100 --> 00:05:35.824 we think about screening, you know,  
NOTE Confidence: 0.74862117

00:05:35.824 --> 00:05:38.512 for many of the other cancers,  
NOTE Confidence: 0.74862117

00:05:38.520 --> 00:05:40.200 we have screening tests, right?  
NOTE Confidence: 0.74862117

00:05:40.200 --> 00:05:42.798 We have mammograms for breast cancer,  
NOTE Confidence: 0.74862117

00:05:42.800 --> 00:05:46.040 we have colonoscopies for colon cancer.  
NOTE Confidence: 0.74862117

00:05:46.040 --> 00:05:49.072 Now we even have low dose CT for people  
NOTE Confidence: 0.74862117

00:05:49.072 --> 00:05:51.920 who are at high risk of lung cancer.  
NOTE Confidence: 0.74862117

00:05:51.920 --> 00:05:53.985 Do we have any screening  
NOTE Confidence: 0.74862117

00:05:53.985 --> 00:05:55.637 tests for pancreatic cancer?  
NOTE Confidence: 0.34698266

00:05:57.160 --> 00:05:59.043 That's a really good point you're bringing  
NOTE Confidence: 0.34698266

00:05:59.043 --> 00:06:01.358 up and is like most cancers right now.

NOTE Confidence: 0.34698266

00:06:01.360 --> 00:06:04.024 We have a good screening tool to pick

NOTE Confidence: 0.34698266

00:06:04.024 --> 00:06:05.891 these cancers early enough where

NOTE Confidence: 0.34698266

00:06:05.891 --> 00:06:08.153 we can give a curative treatment.

NOTE Confidence: 0.34698266

00:06:08.160 --> 00:06:09.888 But unfortunately for pancreatic

NOTE Confidence: 0.34698266

00:06:09.888 --> 00:06:13.055 cancer still we do not have an

NOTE Confidence: 0.34698266

00:06:13.055 --> 00:06:15.520 effective and reliable screening test,

NOTE Confidence: 0.34698266

00:06:15.520 --> 00:06:19.120 especially for someone totally asymptomatic.

NOTE Confidence: 0.34698266

00:06:19.120 --> 00:06:20.960 There is no good screening

NOTE Confidence: 0.34698266

00:06:20.960 --> 00:06:22.800 test where we can recommend

NOTE Confidence: 0.34698266

00:06:22.800 --> 00:06:24.200 in our current tools.

NOTE Confidence: 0.34698266

00:06:25.000 --> 00:06:26.480 But at the same time,

NOTE Confidence: 0.34698266

00:06:26.480 --> 00:06:29.364 if someone has a strong family history

NOTE Confidence: 0.34698266

00:06:29.364 --> 00:06:31.995 of pancreatic cancer or other cancers

NOTE Confidence: 0.34698266

00:06:31.995 --> 00:06:34.320 like breast and ovarian cancers,

NOTE Confidence: 0.34698266

00:06:34.320 --> 00:06:36.176 we have screening programs

NOTE Confidence: 0.34698266

00:06:36.176 --> 00:06:38.416 available which will help early  
NOTE Confidence: 0.34698266

00:06:38.416 --> 00:06:40.880 diagnosis and improve outcomes.  
NOTE Confidence: 0.34698266

00:06:40.880 --> 00:06:43.917 But most of these screening tools  
NOTE Confidence: 0.34698266

00:06:43.917 --> 00:06:47.019 rely on imaging such as  
NOTE Confidence: 0.34698266

00:06:47.019 --> 00:06:50.917 MRI scans or sometimes we do  
NOTE Confidence: 0.34698266

00:06:50.917 --> 00:06:53.905 endoscopic ultrasound which would  
NOTE Confidence: 0.34698266

00:06:53.905 --> 00:06:56.254 need anesthesia and sometimes  
NOTE Confidence: 0.34698266

00:06:56.254 --> 00:06:58.389 a combination we switch between  
NOTE Confidence: 0.34698266

00:06:58.389 --> 00:07:00.480 MRI and endoscopic ultrasound.  
NOTE Confidence: 0.34698266

00:07:00.480 --> 00:07:02.635 But for general population who  
NOTE Confidence: 0.34698266

00:07:02.635 --> 00:07:05.318 are asymptomatic or do not have  
NOTE Confidence: 0.34698266

00:07:05.318 --> 00:07:06.677 any family history,  
NOTE Confidence: 0.34698266

00:07:06.680 --> 00:07:08.780 there is still no good screening tool  
NOTE Confidence: 0.34698266

00:07:08.780 --> 00:07:11.000 to pick these cancers early enough.  
NOTE Confidence: 0.65979654

00:07:12.520 --> 00:07:14.758 And so if there  
NOTE Confidence: 0.65979654

00:07:14.760 --> 00:07:16.950 is no good screening

NOTE Confidence: 0.65979654

00:07:16.950 --> 00:07:19.280 tools for the general population,

NOTE Confidence: 0.65979654

00:07:19.280 --> 00:07:21.541 one of the things that we often

NOTE Confidence: 0.65979654

00:07:21.541 --> 00:07:23.972 recommend is that people know the signs

NOTE Confidence: 0.65979654

00:07:23.972 --> 00:07:26.696 and symptoms so that at least you can

NOTE Confidence: 0.65979654

00:07:26.696 --> 00:07:29.089 present to your doctor and not bury

NOTE Confidence: 0.65979654

00:07:29.089 --> 00:07:31.553 your head in the sand if you have

NOTE Confidence: 0.65979654

00:07:31.560 --> 00:07:33.504 what might be otherwise

NOTE Confidence: 0.65979654

00:07:33.504 --> 00:07:34.800 considered a red flag.

NOTE Confidence: 0.65979654

00:07:34.800 --> 00:07:37.208 So can you talk a little bit

NOTE Confidence: 0.65979654

00:07:37.208 --> 00:07:39.300 more about how pancreatic cancer

NOTE Confidence: 0.65979654

00:07:39.300 --> 00:07:42.240 presents and what might be the

NOTE Confidence: 0.65979654

00:07:42.240 --> 00:07:44.118 signs and symptoms that our

NOTE Confidence: 0.65979654

00:07:44.118 --> 00:07:45.640 listeners should be watching for?

NOTE Confidence: 0.944041

00:07:46.960 --> 00:07:48.800 Yeah, I'm happy to share.

NOTE Confidence: 0.944041

00:07:48.800 --> 00:07:51.180 Often pancreatic cancer goes unnoticed

NOTE Confidence: 0.944041

00:07:51.180 --> 00:07:54.360 and undiagnosed for quite a long time.  
NOTE Confidence: 0.944041

00:07:54.360 --> 00:07:55.150 That's the really,  
NOTE Confidence: 0.944041

00:07:55.150 --> 00:07:57.915 really scary part and sad part too.  
NOTE Confidence: 0.944041

00:07:57.920 --> 00:08:01.550 The reason? Many times the pancreatic  
NOTE Confidence: 0.944041

00:08:01.550 --> 00:08:06.483 cancer when it presents itself, it's too late.  
NOTE Confidence: 0.944041

00:08:06.483 --> 00:08:10.130 Often the symptoms are so mild like  
NOTE Confidence: 0.944041

00:08:10.235 --> 00:08:13.490 abdominal discomfort or mild nausea,  
NOTE Confidence: 0.944041

00:08:13.490 --> 00:08:15.951 which could be from anything, right?  
NOTE Confidence: 0.944041

00:08:15.951 --> 00:08:18.506 One won't think of pancreatic  
NOTE Confidence: 0.944041

00:08:18.506 --> 00:08:20.039 cancer right away.  
NOTE Confidence: 0.944041

00:08:20.040 --> 00:08:22.092 The only problem is if that  
NOTE Confidence: 0.944041

00:08:22.092 --> 00:08:23.460 discomfort persists and it's  
NOTE Confidence: 0.944041

00:08:23.527 --> 00:08:25.237 not going away in few weeks,  
NOTE Confidence: 0.944041

00:08:25.240 --> 00:08:27.615 then I would suggest patients  
NOTE Confidence: 0.944041

00:08:27.615 --> 00:08:29.515 should contact their primary  
NOTE Confidence: 0.944041

00:08:29.515 --> 00:08:31.498 doctor or a gastroenterologist

NOTE Confidence: 0.944041

00:08:31.498 --> 00:08:33.873 to initiate further work up.

NOTE Confidence: 0.944041

00:08:33.880 --> 00:08:36.676 But sometimes it's not that easy.

NOTE Confidence: 0.944041

00:08:36.680 --> 00:08:38.787 I had a patient a few months

NOTE Confidence: 0.944041

00:08:38.787 --> 00:08:40.519 ago who had back pain.

NOTE Confidence: 0.944041

00:08:40.520 --> 00:08:43.439 Months of back pain and first went to

NOTE Confidence: 0.944041

00:08:43.439 --> 00:08:45.679 orthopedic surgeon before coming to me.

NOTE Confidence: 0.944041

00:08:45.680 --> 00:08:47.051 Sometimes pancreatic cancer

NOTE Confidence: 0.944041

00:08:47.051 --> 00:08:49.793 presents like a back pain too.

NOTE Confidence: 0.944041

00:08:49.800 --> 00:08:53.984 But if someone has a jaundice that is

NOTE Confidence: 0.944041

00:08:53.984 --> 00:08:58.197 dark urine or yellow skin pigmentation,

NOTE Confidence: 0.944041

00:08:58.200 --> 00:08:59.469 that's somewhat easy.

NOTE Confidence: 0.944041

00:08:59.469 --> 00:09:02.861 That prompts the patient to go to the

NOTE Confidence: 0.944041

00:09:02.861 --> 00:09:05.332 doctor right away and then you get

NOTE Confidence: 0.944041

00:09:05.332 --> 00:09:08.199 work up with either CT scan or MRI.

NOTE Confidence: 0.944041

00:09:08.200 --> 00:09:10.380 Occasionally pancreatic cancers can

NOTE Confidence: 0.944041

00:09:10.380 --> 00:09:13.240 present like a pancreatitis and that  
NOTE Confidence: 0.944041

00:09:13.240 --> 00:09:15.960 could be one of the red flags to  
NOTE Confidence: 0.944041

00:09:16.046 --> 00:09:19.928 think of pancreatic cancer like hidden  
NOTE Confidence: 0.944041

00:09:19.928 --> 00:09:22.516 pancreatic cancer causing pancreatitis.  
NOTE Confidence: 0.944041

00:09:22.520 --> 00:09:27.434 Another very peculiar thing is weight loss.  
NOTE Confidence: 0.944041

00:09:27.440 --> 00:09:32.240 Sometimes we see unrecognized weight loss.  
NOTE Confidence: 0.944041

00:09:32.240 --> 00:09:34.354 I know everyone wants to lose weight,  
NOTE Confidence: 0.944041

00:09:34.360 --> 00:09:37.840 but it's not easy to achieve weight loss.  
NOTE Confidence: 0.944041

00:09:37.840 --> 00:09:39.208 And if you know,  
NOTE Confidence: 0.944041

00:09:39.208 --> 00:09:42.116 someone says that I lost 30 pounds in  
NOTE Confidence: 0.944041

00:09:42.116 --> 00:09:44.832 one month and haven't been working out,  
NOTE Confidence: 0.944041

00:09:44.840 --> 00:09:47.480 unless you're  
NOTE Confidence: 0.944041

00:09:47.480 --> 00:09:50.000 doing some major lifestyle change,  
NOTE Confidence: 0.944041

00:09:50.000 --> 00:09:51.416 it's not that easy.  
NOTE Confidence: 0.944041

00:09:51.416 --> 00:09:54.745 I usually ask them was it easy to lose  
NOTE Confidence: 0.944041

00:09:54.745 --> 00:09:57.199 weight and if they say, yes it was very easy,



NOTE Confidence: 0.944041

00:09:57.200 --> 00:09:59.754 then that's kind of red flag to

NOTE Confidence: 0.944041

00:09:59.754 --> 00:10:02.512 dig deeper to see what is

NOTE Confidence: 0.944041

00:10:02.512 --> 00:10:04.439 causing the weight loss.

NOTE Confidence: 0.944041

00:10:04.440 --> 00:10:06.590 Another thing which I would

NOTE Confidence: 0.944041

00:10:06.590 --> 00:10:08.517 point out is diabetes.

NOTE Confidence: 0.944041

00:10:08.517 --> 00:10:12.339 There is some strange link between

NOTE Confidence: 0.944041

00:10:12.339 --> 00:10:15.000 diabetes and pancreatic cancer.

NOTE Confidence: 0.944041

00:10:15.000 --> 00:10:17.680 There is some research going on in this too.

NOTE Confidence: 0.944041

00:10:17.680 --> 00:10:22.188 A new onset diabetes for someone 50

NOTE Confidence: 0.944041

00:10:22.188 --> 00:10:25.560 or over that should prompt thinking

NOTE Confidence: 0.944041

00:10:25.560 --> 00:10:28.160 about a hidden pancreatic cancer.

NOTE Confidence: 0.944041

00:10:28.160 --> 00:10:30.880 But of course I want to alert the

NOTE Confidence: 0.944041

00:10:30.880 --> 00:10:32.906 listeners that not every diabetic

NOTE Confidence: 0.944041

00:10:32.906 --> 00:10:34.606 patient gets pancreatic cancer

NOTE Confidence: 0.944041

00:10:34.606 --> 00:10:37.440 or is at risk of pancreatic cancer.

NOTE Confidence: 0.944041

00:10:37.440 --> 00:10:38.665 There are 30 million diabetics  
NOTE Confidence: 0.944041

00:10:38.665 --> 00:10:39.400 in the country,  
NOTE Confidence: 0.944041

00:10:39.400 --> 00:10:42.160 but there's only 50 to  
NOTE Confidence: 0.944041

00:10:42.160 --> 00:10:45.080 60,000 pancreatic cancers per year.  
NOTE Confidence: 0.944041

00:10:45.080 --> 00:10:47.555 But in the pancreatic cancer  
NOTE Confidence: 0.944041

00:10:47.555 --> 00:10:49.040 patients after diagnosis,  
NOTE Confidence: 0.944041

00:10:49.040 --> 00:10:50.280 if you look at them,  
NOTE Confidence: 0.944041

00:10:50.280 --> 00:10:52.926 they can lose the diabetes control  
NOTE Confidence: 0.944041

00:10:52.926 --> 00:10:55.000 the blood sugar showed up.  
NOTE Confidence: 0.944041

00:10:55.000 --> 00:10:58.304 So any acute change in diabetes control  
NOTE Confidence: 0.944041

00:10:58.304 --> 00:11:02.226 or a new onset diabetes that should  
NOTE Confidence: 0.944041

00:11:02.226 --> 00:11:05.826 also prompt someone to look deeper  
NOTE Confidence: 0.944041

00:11:05.932 --> 00:11:08.530 if there's any hidden malignancy,  
NOTE Confidence: 0.944041

00:11:08.530 --> 00:11:10.120 especially pancreatic cancer.  
NOTE Confidence: 0.7120253

00:11:12.320 --> 00:11:15.137 Yeah, I have a good friend who actually  
NOTE Confidence: 0.7120253

00:11:15.137 --> 00:11:17.476 falls into that latter category who,

NOTE Confidence: 0.7120253

00:11:17.480 --> 00:11:18.600 you know, was diabetic.

NOTE Confidence: 0.7120253

00:11:18.600 --> 00:11:20.988 But all of a sudden she

NOTE Confidence: 0.7120253

00:11:20.988 --> 00:11:23.211 found that her, her diabetes really

NOTE Confidence: 0.7120253

00:11:23.211 --> 00:11:25.713 wasn't under control and it was

NOTE Confidence: 0.7120253

00:11:25.720 --> 00:11:27.925 very hard to

NOTE Confidence: 0.7120253

00:11:27.925 --> 00:11:29.745 keep her blood sugars under

NOTE Confidence: 0.7120253

00:11:29.745 --> 00:11:32.160 control as she had in the past.

NOTE Confidence: 0.7120253

00:11:32.160 --> 00:11:33.568 And lo and behold,

NOTE Confidence: 0.7120253

00:11:33.568 --> 00:11:36.163 she went and she presented to her

NOTE Confidence: 0.7120253

00:11:36.163 --> 00:11:38.213 primary care doctor and ultimately

NOTE Confidence: 0.7120253

00:11:38.213 --> 00:11:41.400 was found to have a pancreatic cancer.

NOTE Confidence: 0.7120253

00:11:41.400 --> 00:11:44.109 So can you talk a little bit now that

NOTE Confidence: 0.7120253

00:11:44.109 --> 00:11:46.609 you've nicely laid out kind of the

NOTE Confidence: 0.7120253

00:11:46.609 --> 00:11:49.200 landscape of what people should look for.

NOTE Confidence: 0.7120253

00:11:49.200 --> 00:11:51.288 If you have any of those signs or

NOTE Confidence: 0.7120253

00:11:51.288 --> 00:11:53.074 symptoms and are concerned and you

NOTE Confidence: 0.7120253

00:11:53.074 --> 00:11:54.880 go to your primary care doctor,

NOTE Confidence: 0.7120253

00:11:54.880 --> 00:11:56.973 can you talk a little bit about

NOTE Confidence: 0.7120253

00:11:56.973 --> 00:11:59.640 what the work up is to try to

NOTE Confidence: 0.7120253

00:11:59.640 --> 00:12:01.000 find these pancreatic cancers?

NOTE Confidence: 0.7120253

00:12:01.000 --> 00:12:03.611 What can people expect and how is

NOTE Confidence: 0.7120253

00:12:03.611 --> 00:12:05.120 the diagnosis ultimately made?

NOTE Confidence: 0.41537875

00:12:06.640 --> 00:12:09.818 Yes. If someone has this kind of

NOTE Confidence: 0.41537875

00:12:09.818 --> 00:12:13.199 red flags or high risk symptoms,

NOTE Confidence: 0.41537875

00:12:13.200 --> 00:12:15.825 then the first work up of course

NOTE Confidence: 0.41537875

00:12:15.825 --> 00:12:19.218 a lab test of blood work to look

NOTE Confidence: 0.41537875

00:12:19.218 --> 00:12:21.398 for elevation in liver test.

NOTE Confidence: 0.41537875

00:12:21.400 --> 00:12:23.840 And then the most important

NOTE Confidence: 0.41537875

00:12:23.840 --> 00:12:26.633 aspect of the work up is some

NOTE Confidence: 0.41537875

00:12:26.633 --> 00:12:28.360 kind of cross-sectional scans,

NOTE Confidence: 0.41537875

00:12:28.360 --> 00:12:31.918 either CT scan or MRI scan.

NOTE Confidence: 0.41537875

00:12:31.920 --> 00:12:36.740 Often CT or MRI will find the mass,

NOTE Confidence: 0.41537875

00:12:36.740 --> 00:12:38.274 the pancreatic cancer mass

NOTE Confidence: 0.41537875

00:12:38.274 --> 00:12:40.359 in one or two centimeters.

NOTE Confidence: 0.41537875

00:12:40.360 --> 00:12:42.880 But occasionally if it's smaller than that,

NOTE Confidence: 0.41537875

00:12:42.880 --> 00:12:46.240 sometimes scans can miss that too.

NOTE Confidence: 0.41537875

00:12:46.240 --> 00:12:49.236 Then we rely on what is called

NOTE Confidence: 0.41537875

00:12:49.236 --> 00:12:50.520 as endoscopic ultrasound,

NOTE Confidence: 0.41537875

00:12:50.520 --> 00:12:52.660 which is done by gastroenterologists

NOTE Confidence: 0.41537875

00:12:52.660 --> 00:12:53.516 like myself.

NOTE Confidence: 0.41537875

00:12:53.520 --> 00:12:55.560 Then the patient needs to go

NOTE Confidence: 0.41537875

00:12:55.560 --> 00:12:57.320 under anesthesia and the endoscope

NOTE Confidence: 0.41537875

00:12:57.320 --> 00:12:59.273 goes through the mouth and

NOTE Confidence: 0.41537875

00:12:59.273 --> 00:13:01.838 scan through the stomach wall.

NOTE Confidence: 0.41537875

00:13:01.840 --> 00:13:03.300 As listeners may know,

NOTE Confidence: 0.41537875

00:13:03.300 --> 00:13:06.080 the pancreas lies just behind the stomach.

NOTE Confidence: 0.41537875

00:13:06.080 --> 00:13:07.928 So once you go inside the stomach  
NOTE Confidence: 0.41537875

00:13:07.928 --> 00:13:09.680 and scan through the stomach wall,  
NOTE Confidence: 0.41537875

00:13:09.680 --> 00:13:12.592 you can get a precise look at the  
NOTE Confidence: 0.41537875

00:13:12.592 --> 00:13:14.922 pancreas and even pick up subtle  
NOTE Confidence: 0.41537875

00:13:14.922 --> 00:13:17.600 masses or very small tiny masses too.  
NOTE Confidence: 0.41537875

00:13:17.600 --> 00:13:21.800 Sometimes we rely on cancer biomarkers  
NOTE Confidence: 0.41537875

00:13:21.800 --> 00:13:25.280 like one called California 19-9,  
NOTE Confidence: 0.41537875

00:13:25.280 --> 00:13:28.388 but we often don't use that as  
NOTE Confidence: 0.41537875

00:13:28.388 --> 00:13:31.916 the first test to screen or  
NOTE Confidence: 0.41537875

00:13:31.916 --> 00:13:33.680 diagnose pancreatic cancer.  
NOTE Confidence: 0.41537875

00:13:33.680 --> 00:13:36.686 The reason behind is most pancreatic  
NOTE Confidence: 0.41537875

00:13:36.686 --> 00:13:39.150 cancer patients may have very  
NOTE Confidence: 0.41537875

00:13:39.150 --> 00:13:41.584 high numbers in California 99,  
NOTE Confidence: 0.41537875

00:13:41.584 --> 00:13:45.124 but there are some blood group patients  
NOTE Confidence: 0.41537875

00:13:45.124 --> 00:13:47.788 may not mount that California 99  
NOTE Confidence: 0.41537875

00:13:47.788 --> 00:13:50.878 so it could be falsely negative.

NOTE Confidence: 0.41537875

00:13:50.880 --> 00:13:52.632 At the same time,

NOTE Confidence: 0.41537875

00:13:52.632 --> 00:13:56.159 if someone has a bile duct stone or

NOTE Confidence: 0.41537875

00:13:56.160 --> 00:13:58.799 a benign problem in the bile duct

NOTE Confidence: 0.41537875

00:13:58.800 --> 00:14:02.321 or just a pancreatitis that can also

NOTE Confidence: 0.41537875

00:14:02.321 --> 00:14:04.760 spuriously falsely show very high

NOTE Confidence: 0.41537875

00:14:04.760 --> 00:14:08.112 levels of this cancer biomarker C in 99.

NOTE Confidence: 0.41537875

00:14:08.120 --> 00:14:10.288 So for that reason we don't rely on

NOTE Confidence: 0.41537875

00:14:10.288 --> 00:14:12.477 that a lot, especially to diagnose,

NOTE Confidence: 0.41537875

00:14:12.477 --> 00:14:15.111 but we definitely rely on CT

NOTE Confidence: 0.41537875

00:14:15.111 --> 00:14:17.598 scan or MRI scan to start with.

NOTE Confidence: 0.6394128

00:14:18.320 --> 00:14:20.497 Fantastic. Well, we're going to take a

NOTE Confidence: 0.6394128

00:14:20.497 --> 00:14:22.679 short break here for a medical minute,

NOTE Confidence: 0.6394128

00:14:22.680 --> 00:14:24.528 but please stay tuned to learn more

NOTE Confidence: 0.6394128

00:14:24.528 --> 00:14:26.328 about the care of pancreatic cancers

NOTE Confidence: 0.6394128

00:14:26.328 --> 00:14:28.480 with my guest, Doctor Thiru Muniraj.

NOTE Confidence: 0.5122998

00:14:29.480 --> 00:14:31.520 Funding for Yale Cancer Answers  
NOTE Confidence: 0.5122998

00:14:31.520 --> 00:14:33.560 comes from Smilow Cancer Hospital,  
NOTE Confidence: 0.5122998

00:14:33.560 --> 00:14:35.795 where their Center for Gastrointestinal  
NOTE Confidence: 0.5122998

00:14:35.795 --> 00:14:38.501 Cancers is committed to detecting pancreatic  
NOTE Confidence: 0.5122998

00:14:38.501 --> 00:14:40.546 cancer early and using state-of-the-art  
NOTE Confidence: 0.5122998

00:14:40.546 --> 00:14:42.676 technology to treat the condition.  
NOTE Confidence: 0.5122998

00:14:42.680 --> 00:14:47.280 Learn more at [smilowcancerhospital.org](http://smilowcancerhospital.org).  
NOTE Confidence: 0.5122998

00:14:47.280 --> 00:14:49.380 The American Cancer Society  
NOTE Confidence: 0.5122998

00:14:49.380 --> 00:14:51.740 estimates that nearly 150,000 people  
NOTE Confidence: 0.5122998

00:14:51.740 --> 00:14:54.470 in the US will be diagnosed with  
NOTE Confidence: 0.5122998

00:14:54.470 --> 00:14:56.480 colorectal cancer this year alone.  
NOTE Confidence: 0.5122998

00:14:56.480 --> 00:14:57.728 When detected early,  
NOTE Confidence: 0.5122998

00:14:57.728 --> 00:14:59.392 colorectal cancer is easily  
NOTE Confidence: 0.5122998

00:14:59.392 --> 00:15:01.200 treated and highly curable,  
NOTE Confidence: 0.5122998

00:15:01.200 --> 00:15:03.540 and men and women over the age of 45  
NOTE Confidence: 0.5122998

00:15:03.540 --> 00:15:05.070 should have regular colonoscopies



NOTE Confidence: 0.5122998

00:15:05.070 --> 00:15:07.075 to screen for the disease.

NOTE Confidence: 0.5122998

00:15:07.080 --> 00:15:08.520 Patients with colorectal cancer

NOTE Confidence: 0.5122998

00:15:08.520 --> 00:15:10.680 have more hope than ever before,

NOTE Confidence: 0.5122998

00:15:10.680 --> 00:15:13.512 thanks to increased access to advanced

NOTE Confidence: 0.5122998

00:15:13.512 --> 00:15:15.400 therapies and specialized care.

NOTE Confidence: 0.5122998

00:15:15.400 --> 00:15:17.408 Clinical trials are currently

NOTE Confidence: 0.5122998

00:15:17.408 --> 00:15:19.416 underway at federally designated

NOTE Confidence: 0.5122998

00:15:19.416 --> 00:15:21.143 comprehensive cancer centers such

NOTE Confidence: 0.5122998

00:15:21.143 --> 00:15:23.432 as Yale Cancer Center and Smilow

NOTE Confidence: 0.5122998

00:15:23.432 --> 00:15:25.570 Cancer Hospital to test innovative

NOTE Confidence: 0.5122998

00:15:25.570 --> 00:15:27.755 new treatments for colorectal cancer.

NOTE Confidence: 0.5122998

00:15:27.760 --> 00:15:30.514 Tumor gene analysis has helped improve

NOTE Confidence: 0.5122998

00:15:30.514 --> 00:15:32.863 management of colorectal cancer by

NOTE Confidence: 0.5122998

00:15:32.863 --> 00:15:35.093 identifying the patients most likely

NOTE Confidence: 0.5122998

00:15:35.093 --> 00:15:37.408 to benefit from chemotherapy and

NOTE Confidence: 0.5122998

00:15:37.408 --> 00:15:39.733 newer targeted agents resulting in  
NOTE Confidence: 0.5122998

00:15:39.733 --> 00:15:41.593 more patient specific treatment.  
NOTE Confidence: 0.5122998

00:15:41.600 --> 00:15:43.968 More information is available  
NOTE Confidence: 0.5122998

00:15:43.968 --> 00:15:44.994 at [yalecancercenter.org](http://yalecancercenter.org).  
NOTE Confidence: 0.5122998

00:15:44.994 --> 00:15:47.598 You're listening to Connecticut Public Radio.  
NOTE Confidence: 0.38696218

00:15:48.560 --> 00:15:50.438 Welcome back to Yale Cancer Answers.  
NOTE Confidence: 0.38696218

00:15:50.440 --> 00:15:52.474 This is Doctor Anees Chagpar and  
NOTE Confidence: 0.38696218

00:15:52.474 --> 00:15:54.680 I am joined tonight by my guest,  
NOTE Confidence: 0.38696218

00:15:54.680 --> 00:15:55.925 Doctor Thiru Muniraj.  
NOTE Confidence: 0.38696218

00:15:55.925 --> 00:15:58.415 We're talking about the care of  
NOTE Confidence: 0.38696218

00:15:58.415 --> 00:16:00.685 pancreatic cancer patients in honor  
NOTE Confidence: 0.38696218

00:16:00.685 --> 00:16:02.920 of Pancreatic Cancer Awareness Month.  
NOTE Confidence: 0.38696218

00:16:02.920 --> 00:16:05.384 Now right before the break we talked  
NOTE Confidence: 0.38696218

00:16:05.384 --> 00:16:07.942 about the fact that pancreatic cancer  
NOTE Confidence: 0.38696218

00:16:07.942 --> 00:16:10.798 incidence is increasing in this country  
NOTE Confidence: 0.38696218

00:16:10.800 --> 00:16:13.159 for reasons that are not entirely clear,

NOTE Confidence: 0.38696218

00:16:13.160 --> 00:16:15.998 although may be related to obesity.

NOTE Confidence: 0.38696218

00:16:16.000 --> 00:16:18.288 We talked about the fact that for the

NOTE Confidence: 0.38696218

00:16:18.288 --> 00:16:20.227 vast majority of the general population

NOTE Confidence: 0.38696218

00:16:20.227 --> 00:16:22.520 we really don't have a screening test.

NOTE Confidence: 0.38696218

00:16:22.520 --> 00:16:25.008 So there are a number of things that

NOTE Confidence: 0.38696218

00:16:25.008 --> 00:16:27.633 you can look for and talk to your

NOTE Confidence: 0.38696218

00:16:27.633 --> 00:16:29.719 doctor about if you have symptoms

NOTE Confidence: 0.38696218

00:16:29.719 --> 00:16:31.957 or signs that might be concerning.

NOTE Confidence: 0.38696218

00:16:31.960 --> 00:16:33.560 Right before the break,

NOTE Confidence: 0.38696218

00:16:33.560 --> 00:16:36.664 you talked about the fact that often times

NOTE Confidence: 0.38696218

00:16:36.664 --> 00:16:39.580 the next step is cross-sectional imaging

NOTE Confidence: 0.38696218

00:16:39.580 --> 00:16:43.680 and biomarkers are not really perfect

NOTE Confidence: 0.38696218

00:16:43.680 --> 00:16:45.720 in this regard.

NOTE Confidence: 0.38696218

00:16:45.720 --> 00:16:48.483 But can you talk a little bit about how

NOTE Confidence: 0.38696218

00:16:48.483 --> 00:16:51.078 exactly we go about making that diagnosis?

NOTE Confidence: 0.38696218

00:16:51.080 --> 00:16:53.000 I mean for many cancers,  
NOTE Confidence: 0.38696218

00:16:53.000 --> 00:16:55.555 there's actually a biopsy that takes place.  
NOTE Confidence: 0.38696218

00:16:55.560 --> 00:16:58.360 Is that the same for pancreatic cancer?  
NOTE Confidence: 0.38696218

00:16:58.360 --> 00:16:59.464 And if so,  
NOTE Confidence: 0.38696218

00:16:59.464 --> 00:17:02.919 how is that done and what's the next step?  
NOTE Confidence: 0.648787278333334

00:17:04.320 --> 00:17:06.777 That's true and once we  
NOTE Confidence: 0.648787278333334

00:17:06.777 --> 00:17:09.389 do a CT scan or MRI scan and if  
NOTE Confidence: 0.648787278333334

00:17:09.389 --> 00:17:12.646 we find a mass or even if we see  
NOTE Confidence: 0.648787278333334

00:17:12.646 --> 00:17:14.771 subtle signs which are prompting  
NOTE Confidence: 0.648787278333334

00:17:14.771 --> 00:17:16.520 that there could be a mass,  
NOTE Confidence: 0.648787278333334

00:17:16.520 --> 00:17:19.131 the next best test is to get  
NOTE Confidence: 0.648787278333334

00:17:19.131 --> 00:17:21.128 a biopsy without a tissue.  
NOTE Confidence: 0.648787278333334

00:17:21.128 --> 00:17:23.624 Then it's pretty hard to even  
NOTE Confidence: 0.648787278333334

00:17:23.624 --> 00:17:25.781 establish the diagnosis and for  
NOTE Confidence: 0.648787278333334

00:17:25.781 --> 00:17:28.277 that matter to start the treatment.  
NOTE Confidence: 0.648787278333334

00:17:28.280 --> 00:17:31.160 So the biopsies are often done

NOTE Confidence: 0.648787278333334  
00:17:31.160 --> 00:17:32.120 by a gastroenterologist,  
NOTE Confidence: 0.648787278333334  
00:17:32.120 --> 00:17:35.040 advanced endoscopist who performs what  
NOTE Confidence: 0.648787278333334  
00:17:35.040 --> 00:17:37.960 is called as endoscopic ultrasound.  
NOTE Confidence: 0.648787278333334  
00:17:37.960 --> 00:17:40.135 So the endoscopic ultrasound is  
NOTE Confidence: 0.648787278333334  
00:17:40.135 --> 00:17:42.785 a type of endoscopy which is  
NOTE Confidence: 0.648787278333334  
00:17:42.785 --> 00:17:44.755 done often as an outpatient.  
NOTE Confidence: 0.648787278333334  
00:17:44.760 --> 00:17:47.688 The patient can come in and  
NOTE Confidence: 0.648787278333334  
00:17:47.688 --> 00:17:50.550 go home the same day and it's  
NOTE Confidence: 0.648787278333334  
00:17:50.550 --> 00:17:52.625 done under anesthesia like someone  
NOTE Confidence: 0.648787278333334  
00:17:52.625 --> 00:17:55.278 has a colonoscopy under anesthesia.  
NOTE Confidence: 0.648787278333334  
00:17:55.280 --> 00:17:58.675 Most often that's how it is done.  
NOTE Confidence: 0.648787278333334  
00:17:58.680 --> 00:18:00.996 The endoscope goes through the mouth  
NOTE Confidence: 0.648787278333334  
00:18:01.000 --> 00:18:03.892 and then we enter the stomach and  
NOTE Confidence: 0.648787278333334  
00:18:03.892 --> 00:18:06.776 then we scan through the stomach wall  
NOTE Confidence: 0.648787278333334  
00:18:06.776 --> 00:18:09.999 and find where the pancreatic mass is  
NOTE Confidence: 0.648787278333334

00:18:10.000 --> 00:18:13.276 and precisely locate and identify that.  
NOTE Confidence: 0.648787278333334

00:18:13.280 --> 00:18:14.760 And once we identify,  
NOTE Confidence: 0.648787278333334

00:18:14.760 --> 00:18:17.558 then we pass a very tiny thin  
NOTE Confidence: 0.648787278333334

00:18:17.558 --> 00:18:20.038 needle through the stomach wall.  
NOTE Confidence: 0.648787278333334

00:18:20.040 --> 00:18:22.355 That needle is often thinner  
NOTE Confidence: 0.648787278333334

00:18:22.355 --> 00:18:25.272 than the IV needle what patients  
NOTE Confidence: 0.648787278333334

00:18:25.272 --> 00:18:27.797 often have for IV fluids.  
NOTE Confidence: 0.648787278333334

00:18:27.800 --> 00:18:30.568 And then once we get a good sample  
NOTE Confidence: 0.648787278333334

00:18:30.568 --> 00:18:34.172 from that pancreatic mass and we have a  
NOTE Confidence: 0.648787278333334

00:18:34.172 --> 00:18:38.279 facility called rapid onsite cytology.  
NOTE Confidence: 0.648787278333334

00:18:38.280 --> 00:18:40.912 What that means is we have a luxury  
NOTE Confidence: 0.648787278333334

00:18:40.912 --> 00:18:43.768 of having a pathologist come to the  
NOTE Confidence: 0.648787278333334

00:18:43.768 --> 00:18:46.596 endoscopy suite and look at the sample  
NOTE Confidence: 0.648787278333334

00:18:46.596 --> 00:18:49.103 under microscope in real time when  
NOTE Confidence: 0.648787278333334

00:18:49.103 --> 00:18:52.468 we are still doing the procedure and  
NOTE Confidence: 0.648787278333334

00:18:52.468 --> 00:18:55.756 we have world class endoscopy cytologists,

NOTE Confidence: 0.648787278333334  
00:18:55.760 --> 00:19:00.198 they will diagnose then and there often  
NOTE Confidence: 0.648787278333334  
00:19:00.200 --> 00:19:02.444 sometimes they would take the slides  
NOTE Confidence: 0.648787278333334  
00:19:02.444 --> 00:19:05.472 to their lab to process more and we  
NOTE Confidence: 0.648787278333334  
00:19:05.472 --> 00:19:07.840 also do what is called a score biopsy,  
NOTE Confidence: 0.648787278333334  
00:19:07.840 --> 00:19:10.276 getting more tissue from the  
NOTE Confidence: 0.648787278333334  
00:19:10.276 --> 00:19:12.744 pancreatic mass and that is very  
NOTE Confidence: 0.648787278333334  
00:19:12.744 --> 00:19:14.674 helpful to do further testing,  
NOTE Confidence: 0.648787278333334  
00:19:14.680 --> 00:19:17.632 especially genetic testing on that sample  
NOTE Confidence: 0.648787278333334  
00:19:17.632 --> 00:19:20.835 to determine what is the best treatment,  
NOTE Confidence: 0.648787278333334  
00:19:20.835 --> 00:19:22.895 especially a personalized treatment  
NOTE Confidence: 0.648787278333334  
00:19:22.895 --> 00:19:24.955 for that particular patient.  
NOTE Confidence: 0.648787278333334  
00:19:24.960 --> 00:19:27.235 So everything is done as an outpatient.  
NOTE Confidence: 0.648787278333334  
00:19:27.240 --> 00:19:29.700 That procedure takes 30 minutes to  
NOTE Confidence: 0.648787278333334  
00:19:29.700 --> 00:19:32.486 one hour and the patients leave  
NOTE Confidence: 0.648787278333334  
00:19:32.486 --> 00:19:34.692 the endoscopy unit after half an  
NOTE Confidence: 0.648787278333334

00:19:34.692 --> 00:19:35.916 hour of the procedure is over.

NOTE Confidence: 0.4744714

00:19:38.040 --> 00:19:39.468 So let's talk a little

NOTE Confidence: 0.4744714

00:19:39.468 --> 00:19:40.858 bit more about this personalized

NOTE Confidence: 0.4744714

00:19:40.858 --> 00:19:42.798 medicine that you were mentioning.

NOTE Confidence: 0.4744714

00:19:42.800 --> 00:19:44.648 I mean, we've talked a lot on the

NOTE Confidence: 0.4744714

00:19:44.648 --> 00:19:46.320 show about personalized medicine.

NOTE Confidence: 0.4744714

00:19:46.320 --> 00:19:49.560 It seems to be the buzzword these

NOTE Confidence: 0.4744714

00:19:49.560 --> 00:19:51.960 days in terms of cancer treatment,

NOTE Confidence: 0.4744714

00:19:51.960 --> 00:19:54.753 especially as we discover more and more

NOTE Confidence: 0.4744714

00:19:54.753 --> 00:19:57.198 about the genetics of these cancers.

NOTE Confidence: 0.4744714

00:19:57.200 --> 00:20:00.840 So can you talk a little bit about

NOTE Confidence: 0.4744714

00:20:00.840 --> 00:20:03.960 what kinds of therapies patients

NOTE Confidence: 0.4744714

00:20:03.960 --> 00:20:06.920 might find themselves

NOTE Confidence: 0.4744714

00:20:06.920 --> 00:20:09.880 facing after a biopsy.

NOTE Confidence: 0.4744714

00:20:09.880 --> 00:20:12.360 I mean, is this chemotherapy,

NOTE Confidence: 0.4744714

00:20:12.360 --> 00:20:14.796 is it surgery, is it radiation,



NOTE Confidence: 0.4744714

00:20:14.800 --> 00:20:16.069 is it immunotherapy?

NOTE Confidence: 0.4744714

00:20:16.069 --> 00:20:18.607 Kind of give us a landscape

NOTE Confidence: 0.4744714

00:20:18.607 --> 00:20:21.280 of what people can expect.

NOTE Confidence: 0.86300063

00:20:22.800 --> 00:20:28.155 Yeah. So surgery is the curative treatment.

NOTE Confidence: 0.86300063

00:20:28.160 --> 00:20:31.576 But unfortunately when we see a pancreatic

NOTE Confidence: 0.86300063

00:20:31.576 --> 00:20:34.560 cancer patient over 50% of the time

NOTE Confidence: 0.86300063

00:20:34.560 --> 00:20:36.960 the cancer has already metastasized.

NOTE Confidence: 0.86300063

00:20:36.960 --> 00:20:39.837 That means gone to a different organ.

NOTE Confidence: 0.86300063

00:20:41.840 --> 00:20:44.204 That's for diagnosis and

NOTE Confidence: 0.86300063

00:20:44.204 --> 00:20:46.648 screening and picking up the subtle

NOTE Confidence: 0.86300063

00:20:46.648 --> 00:20:49.520 findings of the symptoms and the

NOTE Confidence: 0.86300063

00:20:49.520 --> 00:20:53.516 rest 50% of the patients, around 10 to 20%,

NOTE Confidence: 0.86300063

00:20:53.516 --> 00:20:56.210 they'll be eligible for a

NOTE Confidence: 0.86300063

00:20:56.299 --> 00:20:58.199 surgery right away.

NOTE Confidence: 0.86300063

00:20:58.200 --> 00:21:00.727 But again another 30% of patients have

NOTE Confidence: 0.86300063

00:21:00.727 --> 00:21:03.880 what is called locally advanced.  
NOTE Confidence: 0.86300063

00:21:03.880 --> 00:21:06.316 That means they have to go through  
NOTE Confidence: 0.86300063

00:21:06.320 --> 00:21:08.552 chemotherapy or radiation first  
NOTE Confidence: 0.86300063

00:21:08.552 --> 00:21:11.900 to shrink the tumor down and  
NOTE Confidence: 0.86300063

00:21:12.003 --> 00:21:15.800 then eventually go for surgery.  
NOTE Confidence: 0.86300063

00:21:15.800 --> 00:21:17.210 Like you mentioned,  
NOTE Confidence: 0.86300063

00:21:17.210 --> 00:21:19.560 there's personalized medicine that is  
NOTE Confidence: 0.86300063

00:21:19.560 --> 00:21:23.532 directing the treatment of chemotherapy or  
NOTE Confidence: 0.86300063

00:21:23.532 --> 00:21:26.224 immunotherapy towards that particular tumor.  
NOTE Confidence: 0.86300063

00:21:26.224 --> 00:21:27.236 Each tumor,  
NOTE Confidence: 0.86300063

00:21:27.240 --> 00:21:28.536 each body is different.  
NOTE Confidence: 0.86300063

00:21:28.536 --> 00:21:30.480 We respond in a different way.  
NOTE Confidence: 0.86300063

00:21:30.480 --> 00:21:32.742 And once the genetic  
NOTE Confidence: 0.86300063

00:21:32.742 --> 00:21:34.800 makeup of that particular tissue,  
NOTE Confidence: 0.86300063

00:21:34.800 --> 00:21:37.104 then we can direct the treatment  
NOTE Confidence: 0.86300063

00:21:37.104 --> 00:21:38.640 towards that particular tissue,

NOTE Confidence: 0.86300063

00:21:38.640 --> 00:21:40.764 that particular patient who

NOTE Confidence: 0.86300063

00:21:40.764 --> 00:21:43.040 will respond better.

NOTE Confidence: 0.86300063

00:21:43.040 --> 00:21:45.464 It's like in a Petri dish,

NOTE Confidence: 0.86300063

00:21:45.464 --> 00:21:47.530 how you do a culture for bacteria

NOTE Confidence: 0.86300063

00:21:47.530 --> 00:21:49.942 and figure out which antibiotics acts

NOTE Confidence: 0.86300063

00:21:49.942 --> 00:21:52.519 better for that particular bacteria.

NOTE Confidence: 0.86300063

00:21:52.520 --> 00:21:54.560 Same concept applies here and

NOTE Confidence: 0.86300063

00:21:54.560 --> 00:21:56.600 recently NCI has recommended that

NOTE Confidence: 0.86300063

00:21:56.670 --> 00:21:59.120 we do that kind of molecular level

NOTE Confidence: 0.86300063

00:21:59.120 --> 00:22:01.079 genetic testing for most samples.

NOTE Confidence: 0.87740964

00:22:03.920 --> 00:22:07.176 And when you say

NOTE Confidence: 0.87740964

00:22:07.176 --> 00:22:10.320 many of these patients the

NOTE Confidence: 0.87740964

00:22:10.320 --> 00:22:12.080 cancer has already metastasized.

NOTE Confidence: 0.87740964

00:22:12.080 --> 00:22:14.740 So surgery really wouldn't be

NOTE Confidence: 0.87740964

00:22:14.740 --> 00:22:17.400 indicated as a curative treatment.

NOTE Confidence: 0.87740964

00:22:17.400 --> 00:22:20.240 Is that why the prognosis is so poor?  
NOTE Confidence: 0.87740964

00:22:20.240 --> 00:22:23.720 And can you talk a little bit  
NOTE Confidence: 0.87740964

00:22:23.720 --> 00:22:26.560 about trends in terms of of prognosis?  
NOTE Confidence: 0.87740964

00:22:26.560 --> 00:22:30.060 So first off, what kind of prognosis  
NOTE Confidence: 0.87740964

00:22:30.060 --> 00:22:32.160 does pancreatic cancer carry?  
NOTE Confidence: 0.87740964

00:22:32.160 --> 00:22:35.373 And second, while we've seen the increase  
NOTE Confidence: 0.87740964

00:22:35.373 --> 00:22:38.279 in incidence of pancreatic cancer,  
NOTE Confidence: 0.87740964

00:22:38.280 --> 00:22:40.471 are we making any dent in terms  
NOTE Confidence: 0.87740964

00:22:40.471 --> 00:22:42.680 of survival for pancreatic cancer?  
NOTE Confidence: 0.68044835

00:22:44.840 --> 00:22:47.040 That's a very important question.  
NOTE Confidence: 0.68044835

00:22:47.040 --> 00:22:49.644 We spoke about why the pancreatic  
NOTE Confidence: 0.68044835

00:22:49.644 --> 00:22:52.626 cancer soon is going to be the second most  
NOTE Confidence: 0.68044835

00:22:52.626 --> 00:22:55.714 common cause of cancer death in the country.  
NOTE Confidence: 0.68044835

00:22:55.720 --> 00:22:58.816 The reason behind that is although a lot  
NOTE Confidence: 0.68044835

00:22:58.816 --> 00:23:01.600 of progress is being made in survival,  
NOTE Confidence: 0.68044835

00:23:01.600 --> 00:23:04.000 like prolonging the survival for

NOTE Confidence: 0.68044835  
00:23:04.000 --> 00:23:06.400 someone who has pancreatic cancer  
NOTE Confidence: 0.68044835  
00:23:06.400 --> 00:23:07.772 making them live longer,  
NOTE Confidence: 0.68044835  
00:23:07.772 --> 00:23:10.841 still we are not able to cure  
NOTE Confidence: 0.68044835  
00:23:10.841 --> 00:23:12.717 completely the pancreatic cancer.  
NOTE Confidence: 0.68044835  
00:23:12.720 --> 00:23:14.976 So that's the reason the cancer  
NOTE Confidence: 0.68044835  
00:23:14.976 --> 00:23:16.853 deaths are still not dropping  
NOTE Confidence: 0.68044835  
00:23:16.853 --> 00:23:19.160 down as we would like.  
NOTE Confidence: 0.68044835  
00:23:19.160 --> 00:23:21.931 The medical community is working a lot  
NOTE Confidence: 0.68044835  
00:23:21.931 --> 00:23:24.755 to put research and their minds into it.  
NOTE Confidence: 0.68044835  
00:23:24.760 --> 00:23:27.888 How we can change and make a meaningful  
NOTE Confidence: 0.68044835  
00:23:27.888 --> 00:23:31.677 dent in the prognosis of pancreatic cancer.  
NOTE Confidence: 0.68044835  
00:23:31.680 --> 00:23:32.272 Currently,  
NOTE Confidence: 0.68044835  
00:23:32.272 --> 00:23:36.356 if you want to give a cure,  
NOTE Confidence: 0.68044835  
00:23:36.360 --> 00:23:38.635 you want to get the tumour out.  
NOTE Confidence: 0.68044835  
00:23:38.640 --> 00:23:41.342 That can be done with the curative  
NOTE Confidence: 0.68044835

00:23:41.342 --> 00:23:43.912 surgery only if we find the tumour  
NOTE Confidence: 0.68044835

00:23:43.912 --> 00:23:46.759 very early on when it is very tiny,  
NOTE Confidence: 0.68044835

00:23:46.760 --> 00:23:49.602 which has not involved any blood vessels  
NOTE Confidence: 0.68044835

00:23:49.602 --> 00:23:52.280 or travelled to the distant organs.  
NOTE Confidence: 0.68044835

00:23:52.280 --> 00:23:55.458 So a lot of effort goes into picking  
NOTE Confidence: 0.68044835

00:23:55.458 --> 00:23:58.717 the tumors in a very early stage,  
NOTE Confidence: 0.68044835

00:23:58.720 --> 00:24:01.240 do multiple clinical trials and  
NOTE Confidence: 0.68044835

00:24:01.240 --> 00:24:03.760 research or focus towards that  
NOTE Confidence: 0.68044835

00:24:03.760 --> 00:24:07.280 mainly to change the prognosis,  
NOTE Confidence: 0.68044835

00:24:07.280 --> 00:24:09.655 change the landscape of pancreatic  
NOTE Confidence: 0.68044835

00:24:09.655 --> 00:24:12.520 cancer to drop the death rate.  
NOTE Confidence: 0.7811066

00:24:14.880 --> 00:24:16.952 Can you talk a little bit more about  
NOTE Confidence: 0.7811066

00:24:16.952 --> 00:24:18.869 those clinical trials that are  
NOTE Confidence: 0.7811066

00:24:18.869 --> 00:24:20.879 aimed at finding these cancers early?  
NOTE Confidence: 0.7811066

00:24:20.880 --> 00:24:23.694 I mean, are they really focused on  
NOTE Confidence: 0.7811066

00:24:23.694 --> 00:24:26.531 people who we know are at higher

NOTE Confidence: 0.7811066

00:24:26.531 --> 00:24:28.428 risk due to baseline genetics?

NOTE Confidence: 0.7811066

00:24:28.428 --> 00:24:31.885 For example, having a BRCA one or

NOTE Confidence: 0.7811066

00:24:31.885 --> 00:24:34.844 two gene mutation and then trying

NOTE Confidence: 0.7811066

00:24:34.844 --> 00:24:36.799 to screen them with cross-sectional

NOTE Confidence: 0.7811066

00:24:36.799 --> 00:24:39.260 imaging or talk a little bit more

NOTE Confidence: 0.7811066

00:24:39.260 --> 00:24:40.956 about these clinical trials and

NOTE Confidence: 0.7811066

00:24:40.956 --> 00:24:42.993 what we can expect in the future?

NOTE Confidence: 0.6955803

00:24:44.880 --> 00:24:47.400 Yeah, sure. So these clinical trials

NOTE Confidence: 0.6955803

00:24:47.400 --> 00:24:50.106 are again focused on enriched patient

NOTE Confidence: 0.6955803

00:24:50.106 --> 00:24:53.184 population because as we spoke we

NOTE Confidence: 0.6955803

00:24:53.184 --> 00:24:56.581 cannot be doing a screening test for

NOTE Confidence: 0.6955803

00:24:56.581 --> 00:24:58.736 every general population because one,

NOTE Confidence: 0.6955803

00:24:58.736 --> 00:25:02.903 if we start picking up a small raise in CN

NOTE Confidence: 0.6955803

00:25:02.903 --> 00:25:05.862 99 that will only increase anxiety and

NOTE Confidence: 0.6955803

00:25:05.862 --> 00:25:08.672 put patients through totally unnecessary

NOTE Confidence: 0.6955803

00:25:08.672 --> 00:25:11.705 testing and that will only increase  
NOTE Confidence: 0.6955803

00:25:11.705 --> 00:25:13.677 anxiety among general population.  
NOTE Confidence: 0.6955803

00:25:13.680 --> 00:25:15.756 So we're trying to focus on  
NOTE Confidence: 0.6955803

00:25:15.760 --> 00:25:16.900 high risk patients.  
NOTE Confidence: 0.6955803

00:25:16.900 --> 00:25:19.560 High risk patients means someone who has  
NOTE Confidence: 0.6955803

00:25:19.623 --> 00:25:22.225 family history of pancreatic cancer or  
NOTE Confidence: 0.6955803

00:25:22.225 --> 00:25:24.920 like you pointed out the BRCA mutation.  
NOTE Confidence: 0.6955803

00:25:24.920 --> 00:25:27.736 One and two especially BRCA 2 has a  
NOTE Confidence: 0.6955803

00:25:27.736 --> 00:25:30.457 higher risk of having a pancreatic  
NOTE Confidence: 0.6955803

00:25:30.457 --> 00:25:32.872 cancer than the general population.  
NOTE Confidence: 0.6955803

00:25:32.880 --> 00:25:35.968 So once we find a high risk enriched  
NOTE Confidence: 0.6955803

00:25:35.968 --> 00:25:38.099 population like also we spoke  
NOTE Confidence: 0.6955803

00:25:38.099 --> 00:25:39.799 about and diabetes.  
NOTE Confidence: 0.6955803

00:25:39.800 --> 00:25:42.558 So once we find that enriched population,  
NOTE Confidence: 0.6955803

00:25:42.560 --> 00:25:45.125 we have different screening programs  
NOTE Confidence: 0.6955803

00:25:45.125 --> 00:25:48.417 where we alternate between MRI scan in and



NOTE Confidence: 0.6955803

00:25:48.417 --> 00:25:51.453 US and most of these are all done

NOTE Confidence: 0.6955803

00:25:51.453 --> 00:25:54.517 on an annual basis to catch early cancer.

NOTE Confidence: 0.3810309

00:25:56.840 --> 00:25:59.017 So is this now just on clinical

NOTE Confidence: 0.3810309

00:25:59.017 --> 00:26:01.701 trial or is this something that if

NOTE Confidence: 0.3810309

00:26:01.701 --> 00:26:04.215 we have somebody who's listening to

NOTE Confidence: 0.3810309

00:26:04.295 --> 00:26:06.521 this show now and let's say they

NOTE Confidence: 0.3810309

00:26:06.521 --> 00:26:09.144 do fit into one of those criteria,

NOTE Confidence: 0.3810309

00:26:09.144 --> 00:26:12.628 let's say they have had new onset

NOTE Confidence: 0.3810309

00:26:12.628 --> 00:26:15.346 diabetes or they have been losing

NOTE Confidence: 0.3810309

00:26:15.346 --> 00:26:20.016 weight and it's been quote easy,

NOTE Confidence: 0.3810309

00:26:20.016 --> 00:26:23.644 should they be getting this scan

NOTE Confidence: 0.3810309

00:26:23.644 --> 00:26:27.158 done as part of standard of care?

NOTE Confidence: 0.3810309

00:26:27.160 --> 00:26:29.320 If if people have a genetic mutation,

NOTE Confidence: 0.3810309

00:26:29.320 --> 00:26:31.540 should they be having annual scans

NOTE Confidence: 0.3810309

00:26:31.540 --> 00:26:34.249 as part of standard of care or do

NOTE Confidence: 0.3810309

00:26:34.249 --> 00:26:36.393 they need to find a clinical trial  
NOTE Confidence: 0.3810309

00:26:36.393 --> 00:26:38.360 near them that is offering this?  
NOTE Confidence: 0.5588484

00:26:39.960 --> 00:26:42.408 As of now major centers in  
NOTE Confidence: 0.5588484

00:26:42.408 --> 00:26:44.040 the country including Yale,  
NOTE Confidence: 0.5588484

00:26:44.040 --> 00:26:46.230 we offer clinical trials for the  
NOTE Confidence: 0.5588484

00:26:46.230 --> 00:26:48.439 same question what you asked for,  
NOTE Confidence: 0.5588484

00:26:48.440 --> 00:26:51.120 but it's still not a standard of care  
NOTE Confidence: 0.5588484

00:26:51.120 --> 00:26:53.476 to perform routine scans for patients  
NOTE Confidence: 0.5588484

00:26:53.476 --> 00:26:56.408 who have family history of an aunt or  
NOTE Confidence: 0.5588484

00:26:56.408 --> 00:26:58.558 uncle having a pancreatic cancer.  
NOTE Confidence: 0.5588484

00:26:58.560 --> 00:27:01.640 So if someone has a family member having  
NOTE Confidence: 0.5588484

00:27:01.640 --> 00:27:04.186 a pancreatic cancer especially first  
NOTE Confidence: 0.5588484

00:27:04.186 --> 00:27:06.875 degree relative or if someone has a  
NOTE Confidence: 0.5588484

00:27:06.875 --> 00:27:09.376 personal history of having a BRCA mutation.  
NOTE Confidence: 0.5588484

00:27:09.376 --> 00:27:12.516 Then it's advisable to contact  
NOTE Confidence: 0.5588484

00:27:12.516 --> 00:27:14.400 your primary physician,

NOTE Confidence: 0.5588484

00:27:14.400 --> 00:27:17.940 gastroenterologist and reach out to

NOTE Confidence: 0.5588484

00:27:17.940 --> 00:27:20.617 the nearest multi speciality centre

NOTE Confidence: 0.5588484

00:27:20.617 --> 00:27:23.550 where we have access

NOTE Confidence: 0.5588484

00:27:23.629 --> 00:27:25.945 for the clinical trial to enroll

NOTE Confidence: 0.5588484

00:27:25.945 --> 00:27:27.746 and start putting the patients

NOTE Confidence: 0.5588484

00:27:27.746 --> 00:27:29.456 into alternating between MRI and

NOTE Confidence: 0.5588484

00:27:29.456 --> 00:27:31.598 EUS and having a close follow up.

NOTE Confidence: 0.4057434

00:27:32.800 --> 00:27:35.302 When do you anticipate having the

NOTE Confidence: 0.4057434

00:27:35.302 --> 00:27:37.709 results of those clinical trials so

NOTE Confidence: 0.4057434

00:27:37.709 --> 00:27:39.712 that the general population who's

NOTE Confidence: 0.4057434

00:27:39.712 --> 00:27:42.220 at higher risk can avail themselves

NOTE Confidence: 0.4057434

00:27:42.285 --> 00:27:44.336 of it as standard of care rather

NOTE Confidence: 0.4057434

00:27:44.336 --> 00:27:46.400 than only on a clinical trial?

NOTE Confidence: 0.8668077

00:27:47.840 --> 00:27:50.272 Yeah, we have a

NOTE Confidence: 0.8668077

00:27:50.272 --> 00:27:52.980 population of 350 million and the pancreatic

NOTE Confidence: 0.8668077

00:27:52.980 --> 00:27:55.800 cancer only 50,000 or 60,000 per year.

NOTE Confidence: 0.8668077

00:27:55.800 --> 00:27:59.256 So the goal is to find an enriched

NOTE Confidence: 0.8668077

00:27:59.256 --> 00:28:02.469 population who will be higher risk of

NOTE Confidence: 0.8668077

00:28:02.469 --> 00:28:05.449 pancreatic cancer and use a screening

NOTE Confidence: 0.8668077

00:28:05.449 --> 00:28:07.472 test to that particular population.

NOTE Confidence: 0.8668077

00:28:07.472 --> 00:28:10.778 So that if we are not driving

NOTE Confidence: 0.8668077

00:28:10.778 --> 00:28:13.452 everyone anxious and also we are picking

NOTE Confidence: 0.8668077

00:28:13.525 --> 00:28:15.640 up some meaningful early cancers

NOTE Confidence: 0.8668077

00:28:15.640 --> 00:28:18.104 where we can change patient's life.

NOTE Confidence: 0.8668077

00:28:18.104 --> 00:28:21.680 Lot of work is still going on in this area.

NOTE Confidence: 0.8668077

00:28:21.680 --> 00:28:24.464 I'm hopeful that at least in the next few

NOTE Confidence: 0.8668077

00:28:24.464 --> 00:28:26.570 years there'll be some standard of

NOTE Confidence: 0.8668077

00:28:26.570 --> 00:28:28.900 care which a primary care physician can

NOTE Confidence: 0.8668077

00:28:28.900 --> 00:28:31.439 use to pick this cancers early enough.

NOTE Confidence: 0.6144946

00:28:32.000 --> 00:28:34.196 Doctor Thiru Muniraj is an associate

NOTE Confidence: 0.6144946

00:28:34.196 --> 00:28:36.093 professor of medicine and digestive

NOTE Confidence: 0.6144946

00:28:36.093 --> 00:28:38.676 diseases at the Yale School of Medicine.

NOTE Confidence: 0.6144946

00:28:38.680 --> 00:28:40.688 If you have questions,

NOTE Confidence: 0.6144946

00:28:40.688 --> 00:28:42.660 the address is canceranswers@yale.edu,

NOTE Confidence: 0.6144946

00:28:42.660 --> 00:28:45.420 and past editions of the program

NOTE Confidence: 0.6144946

00:28:45.420 --> 00:28:47.809 are available in audio and written

NOTE Confidence: 0.6144946

00:28:47.809 --> 00:28:48.746 form at yalecancercenter.org.

NOTE Confidence: 0.6144946

00:28:48.746 --> 00:28:51.194 We hope you'll join us next week to

NOTE Confidence: 0.6144946

00:28:51.194 --> 00:28:53.068 learn more about the fight against

NOTE Confidence: 0.6144946

00:28:53.068 --> 00:28:54.920 cancer here on Connecticut Public Radio.

NOTE Confidence: 0.6144946

00:28:54.920 --> 00:28:57.524 Funding for Yale Cancer Answers is

NOTE Confidence: 0.6144946

00:28:57.524 --> 00:29:00.000 provided by Smilow Cancer Hospital.