WEBVTT

00:00:00.000 --> 00:00:02.490 Support for Yale Cancer Answers

NOTE Confidence: 0.85464054

00:00:02.490 --> 00:00:04.980 comes from AstraZeneca, dedicated

NOTE Confidence: 0.85464054

00:00:05.057 --> 00:00:07.432 to advancing options and providing

NOTE Confidence: 0.85464054

00:00:07.432 --> 00:00:10.420 hope for people living with cancer.

NOTE Confidence: 0.85464054

00:00:10.420 --> 00:00:14.048 More information at astrazeneca-us.com.

NOTE Confidence: 0.85464054

00:00:14.050 --> 00:00:16.168 Welcome to Yale Cancer Answers with

NOTE Confidence: 0.85464054

00:00:16.168 --> 00:00:18.479 your host doctor Anees Chagpar.

NOTE Confidence: 0.85464054

00:00:18.480 --> 00:00:20.300 Yale Cancer Answers features the

NOTE Confidence: 0.85464054

00:00:20.300 --> 00:00:22.537 latest information on cancer care by

NOTE Confidence: 0.85464054

00:00:22.537 --> 00:00:23.969 welcoming oncologists and specialists

NOTE Confidence: 0.85464054

00:00:23.969 --> 00:00:26.374 who are on the forefront of the

NOTE Confidence: 0.85464054

00:00:26.374 --> 00:00:28.030 battle to fight cancer. This week,

NOTE Confidence: 0.85464054

00:00:28.030 --> 00:00:29.974 it's a conversation about outcomes research

NOTE Confidence: 0.85464054

00:00:29.974 --> 00:00:32.120 in kidney cancer with Doctor Michaela Dinan.

NOTE Confidence: 0.85464054

00:00:32.120 --> 00:00:34.290 Doctor Dinan is an

NOTE Confidence: 0.85464054

00:00:34.290 --> 00:00:36.027 associate professor in chronic disease

NOTE Confidence: 0.85464054

00:00:36.027 --> 00:00:38.271 Epidemiology at the Yale School of

NOTE Confidence: 0.85464054

00:00:38.271 --> 00:00:40.310 Public Health and Doctor Chagpar

NOTE Confidence: 0.85464054

00:00:40.310 --> 00:00:42.848 is a professor of surgical oncology

NOTE Confidence: 0.85464054

00:00:42.848 --> 00:00:45.570 at the Yale School of Medicine.

00:00:45.920 --> 00:00:47.615 Michaela, maybe we can start

NOTE Confidence: 0.8466049

00:00:47.615 --> 00:00:50.082 off by you telling us a little

NOTE Confidence: 0.8466049

00:00:50.082 --> 00:00:51.827 bit more about yourself and

NOTE Confidence: 0.8466049

00:00:51.830 --> 00:00:52.970 what exactly you do.

NOTE Confidence: 0.8466049

00:00:52.970 --> 00:00:55.104 I call myself a cancer outcomes or

NOTE Confidence: 0.8466049

00:00:55.104 --> 00:00:56.939 health services researcher so people

NOTE Confidence: 0.8466049

00:00:56.939 --> 00:00:58.869 aren't always familiar with cancer

NOTE Confidence: 0.8466049

00:00:58.869 --> 00:01:00.879 outcomes or health services research.

NOTE Confidence: 0.8466049

00:01:00.880 --> 00:01:03.085 They tend to be more familiar with

NOTE Confidence: 0.8466049

00:01:03.085 --> 00:01:05.059 basic or clinical Cancer Research.

NOTE Confidence: 0.8466049

00:01:05.060 --> 00:01:06.730 Basic Cancer Research relates to

NOTE Confidence: 0.8466049

00:01:06.730 --> 00:01:09.578 studies done in a lab with cancer cells,

NOTE Confidence: 0.8466049

00:01:09.580 --> 00:01:12.236 either in a Petri dish or in animals

NOTE Confidence: 0.8466049

00:01:12.236 --> 00:01:14.074 where researchers can directly manipulate

NOTE Confidence: 0.8466049

00:01:14.074 --> 00:01:16.288 and study cancer cells to learn

NOTE Confidence: 0.8466049

00:01:16.288 --> 00:01:18.568 more about basic biology of cancer.

NOTE Confidence: 0.8466049

00:01:18.570 --> 00:01:20.814 And then, clinical Cancer Research refers

NOTE Confidence: 0.8466049

00:01:20.814 --> 00:01:23.533 to when advances in basic science are

NOTE Confidence: 0.8466049

00:01:23.533 --> 00:01:25.463 being translated into actual medical

NOTE Confidence: 0.8466049

00:01:25.463 --> 00:01:27.526 tests or treatments and are then

NOTE Confidence: 0.8466049

00:01:27.526 --> 00:01:30.128 tested in humans to see if they work.

NOTE Confidence: 0.8466049

00:01:30.128 --> 00:01:32.402 My focus of research health services

NOTE Confidence: 0.8466049

00:01:32.402 --> 00:01:34.511 is the part that comes

NOTE Confidence: 0.8466049

00:01:34.511 --> 00:01:36.437 after this, after a new medical

NOTE Confidence: 0.8466049

00:01:36.506 --> 00:01:38.336 treatment or diagnostic tool is

NOTE Confidence: 0.8466049

00:01:38.336 --> 00:01:40.515 found to work in clinical trials,

NOTE Confidence: 0.8466049

00:01:40.515 --> 00:01:42.585 I study how it actually gets

NOTE Confidence: 0.8466049

00:01:42.585 --> 00:01:44.490 used in the real world.

NOTE Confidence: 0.8466049

00:01:44.490 --> 00:01:47.740 You have to remember that only around 3% of

NOTE Confidence: 0.8466049

00:01:47.740 --> 00:01:50.330 patients are treated on a clinical trial.

NOTE Confidence: 0.8466049

00:01:50.330 --> 00:01:52.100 And other people who take part

NOTE Confidence: 0.8466049

00:01:52.100 --> 00:01:54.062 in clinical trials are not like

NOTE Confidence: 0.8466049

00:01:54.062 --> 00:01:55.510 the general cancer population.

NOTE Confidence: 0.8466049

00:01:55.510 --> 00:01:58.426 In order to be enrolled in a clinical trial,

NOTE Confidence: 0.8466049

00:01:58.430 --> 00:02:00.649 you have to be healthy enough to

NOTE Confidence: 0.8466049

00:02:00.649 --> 00:02:02.199 qualify for participation and every

NOTE Confidence: 0.8466049

00:02:02.199 --> 00:02:04.343 clinical trial has a set of very strict

NOTE Confidence: 0.8466049

00:02:04.402 --> 00:02:06.210 inclusion and exclusion criteria.

NOTE Confidence: 0.8466049

00:02:06.210 --> 00:02:08.794 And if you don't meet every single one,

NOTE Confidence: 0.8466049

00:02:08.800 --> 00:02:11.068 you can't participate as you can imagine,

NOTE Confidence: 0.8466049

00:02:11.070 --> 00:02:13.429 the vast majority of patients who receive

NOTE Confidence: 0.8466049

00:02:13.429 --> 00:02:15.926 treatment are not part of a clinical trial,

NOTE Confidence: 0.8466049

00:02:15.930 --> 00:02:17.685 so trial participants don't look

NOTE Confidence: 0.8466049

00:02:17.685 --> 00:02:19.833 like everyone else who gets treatment

NOTE Confidence: 0.8466049

00:02:19.833 --> 00:02:22.136 for their cancer in the real world.

NOTE Confidence: 0.8466049

00:02:22.140 --> 00:02:24.192 Many people that are not included

NOTE Confidence: 0.8466049

00:02:24.192 --> 00:02:26.470 in trials are often older adults.

NOTE Confidence: 0.8466049

00:02:26.470 --> 00:02:28.350 People who have other medical

NOTE Confidence: 0.8466049

00:02:28.350 --> 00:02:30.639 conditions or people who don't live

NOTE Confidence: 0.8466049

00:02:30.639 --> 00:02:32.673 near an academic Medical Center or

NOTE Confidence: 0.8466049

00:02:32.673 --> 00:02:35.166 who can't make all the extra visits

NOTE Confidence: 0.8466049

00:02:35.166 --> 00:02:36.578 that are often required,

NOTE Confidence: 0.8466049

00:02:36.580 --> 00:02:39.135 or people that don't otherwise want to

NOTE Confidence: 0.8466049

00:02:39.135 --> 00:02:41.270 participate in trials for some reason.

NOTE Confidence: 0.8466049

00:02:41.270 --> 00:02:42.353 Health Services Research,

NOTE Confidence: 0.8466049

00:02:42.353 --> 00:02:44.158 which is what I do,

NOTE Confidence: 0.8466049

00:02:44.160 --> 00:02:45.920 looks at how cancer treatments

NOTE Confidence: 0.8466049

00:02:45.920 --> 00:02:48.130 happen quote in the real world.

NOTE Confidence: 0.8466049

00:02:48.130 --> 00:02:49.129 So for example,

NOTE Confidence: 0.8466049

00:02:49.129 --> 00:02:51.925 we get to ask questions like how is

NOTE Confidence: 0.8466049

00:02:51.925 --> 00:02:53.900 cancer treated within the entire

NOTE Confidence: 0.8466049

00:02:53.900 --> 00:02:56.179 country as opposed to just one center?

00:02:56.482 --> 00:02:58.898 Who has access to new treatments?

NOTE Confidence: 0.8466049

00:03:01.160 --> 00:03:02.820 What are the outcomes associated

NOTE Confidence: 0.8466049

00:03:02.820 --> 00:03:04.148 with these new treatments?

NOTE Confidence: 0.8466049

00:03:04.150 --> 00:03:06.142 How much does it cost to

NOTE Confidence: 0.8466049

00:03:06.142 --> 00:03:07.138 get these treatments?

NOTE Confidence: 0.8466049

00:03:07.140 --> 00:03:09.331 And are there racial or economic or

NOTE Confidence: 0.8466049

00:03:09.331 --> 00:03:11.207 other disparities in access to cancer care?

NOTE Confidence: 0.8925702

00:03:16.570 --> 00:03:19.160 Wow, I mean that sounds so relevant

NOTE Confidence: 0.8925702

00:03:19.160 --> 00:03:21.738 because when you think

NOTE Confidence: 0.8925702

00:03:21.738 --> 00:03:24.276 about the subpopulation, as you say,

NOTE Confidence: 0.8925702

00:03:24.276 --> 00:03:26.568 who get treated on clinical trials

NOTE Confidence: 0.8925702

00:03:26.568 --> 00:03:29.408 being so small and yet the outcomes

NOTE Confidence: 0.8925702

00:03:29.408 --> 00:03:31.523 of those clinical trials are

NOTE Confidence: 0.8925702

00:03:31.523 --> 00:03:33.788 applied to the entire population,

NOTE Confidence: 0.8925702

00:03:33.790 --> 00:03:36.466 it seems to be particularly important

NOTE Confidence: 0.8925702

00:03:36.466 --> 00:03:39.438 to see what happens out there in

NOTE Confidence: 0.8925702

00:03:39.438 --> 00:03:41.646 the real world on patients who

NOTE Confidence: 0.8925702

00:03:41.646 --> 00:03:44.089 may not have looked exactly like

NOTE Confidence: 0.8925702

00:03:44.089 --> 00:03:46.910 the people who were in the trials.

NOTE Confidence: 0.87600183

00:03:47.670 --> 00:03:48.938 Yes, that's exactly right.

NOTE Confidence: 0.87600183

00:03:48.938 --> 00:03:50.840 And the other point about clinical

NOTE Confidence: 0.87600183

00:03:50.894 --> 00:03:53.001 trials is that they tend to be

NOTE Confidence: 0.87600183

00:03:53.001 --> 00:03:54.206 highly controlled settings, right?

NOTE Confidence: 0.87600183

00:03:54.206 --> 00:03:55.686 So patients who are participating

NOTE Confidence: 0.87600183

00:03:55.686 --> 00:03:57.740 in a clinical trial not only have

NOTE Confidence: 0.87600183

00:03:57.740 --> 00:03:59.095 they gone through the litany

NOTE Confidence: 0.87600183

00:03:59.095 --> 00:04:00.470 of inclusion exclusion criteria

NOTE Confidence: 0.87600183

00:04:00.470 --> 00:04:02.018 that I've already mentioned,

NOTE Confidence: 0.87600183

00:04:02.020 --> 00:04:03.252 just to be enrolled,

NOTE Confidence: 0.87600183

00:04:03.252 --> 00:04:05.450 but once they are enrolled they are very

NOTE Confidence: 0.87600183

00:04:05.450 --> 00:04:07.120 closely monitored and followed in

NOTE Confidence: 0.87600183

00:04:07.120 --> 00:04:09.136 terms of their treatment and their

NOTE Confidence: 0.87600183

00:04:09.136 --> 00:04:10.882 outcomes that someone is

NOTE Confidence: 0.87600183

00:04:10.882 --> 00:04:12.940 keeping a very watchful eye on them.

NOTE Confidence: 0.87600183

00:04:12.940 --> 00:04:15.131 This is very different from a patient

NOTE Confidence: 0.87600183

00:04:15.131 --> 00:04:17.420 in the real world who's kind of

NOTE Confidence: 0.87600183

00:04:17.420 --> 00:04:19.317 coming into and going out of the

NOTE Confidence: 0.87600183

00:04:19.317 --> 00:04:20.711 healthcare system on a regular

NOTE Confidence: 0.87600183

00:04:20.711 --> 00:04:22.277 basis and may not be being followed

NOTE Confidence: 0.87600183

00:04:22.277 --> 00:04:23.878 as closely.

NOTE Confidence: 0.84978104

00:04:25.030 --> 00:04:27.158 So tell us a little bit more about

NOTE Confidence: 0.84978104

00:04:27.158 --> 00:04:29.136 your more recent research and what

NOTE Confidence: 0.84978104

00:04:29.136 --> 00:04:31.206 you've been doing in this realm.

NOTE Confidence: 0.8173699

00:04:32.460 --> 00:04:34.620 Sure, right now

NOTE Confidence: 0.8173699

00:04:34.620 --> 00:04:37.371 I currently have a study funded by

NOTE Confidence: 0.8173699

00:04:37.371 --> 00:04:39.891 the National Cancer Institute to look

NOTE Confidence: 0.8173699

00:04:39.891 --> 00:04:42.423 at oral Anti cancer agent utilization

NOTE Confidence: 0.8173699

00:04:42.423 --> 00:04:44.957 in patients with kidney cancer.

NOTE Confidence: 0.8173699

00:04:44.960 --> 00:04:47.546 So kidney cancer, like most cancers,

NOTE Confidence: 0.8173699

00:04:47.550 --> 00:04:50.040 can either be early stage or

NOTE Confidence: 0.8173699

00:04:50.040 --> 00:04:52.290 more advanced stage.

NOTE Confidence: 0.8173699

00:04:52.290 --> 00:04:55.690 Stage refers to how far a cancer has

NOTE Confidence: 0.8173699

00:04:55.690 --> 00:04:57.888 spread throughout a person's body.

NOTE Confidence: 0.8173699

00:04:57.890 --> 00:05:00.482 So for kidney cancer, early stage

NOTE Confidence: 0.8173699

00:05:00.482 --> 00:05:03.139 disease is confined to the kidney.

NOTE Confidence: 0.8173699

00:05:03.140 --> 00:05:05.168 Whereas for advanced or metastatic disease,

NOTE Confidence: 0.8173699

00:05:05.170 --> 00:05:07.390 the disease has learned to travel

NOTE Confidence: 0.8173699

00:05:07.390 --> 00:05:09.228 through the bloodstream and has

NOTE Confidence: 0.8173699

00:05:09.228 --> 00:05:11.244 spread to other parts of the body,

NOTE Confidence: 0.8173699

00:05:11.250 --> 00:05:15.044 such as the lungs, bones or brain.

NOTE Confidence: 0.8173699

00:05:15.050 --> 00:05:17.808 So early stage disease is typically treated

NOTE Confidence: 0.8173699

00:05:17.808 --> 00:05:20.689 with a surgery or if it's small enough,

00:05:22.946 --> 00:05:24.450 or in an elderly or unhealthy person,

NOTE Confidence: 0.8173699

00:05:24.450 --> 00:05:26.330 it is sometimes just observed.

NOTE Confidence: 0.8173699

00:05:26.330 --> 00:05:28.590 Advanced kidney cancer for most

NOTE Confidence: 0.8173699

00:05:28.590 --> 00:05:30.840 patients is not curable.

NOTE Confidence: 0.8173699

00:05:30.840 --> 00:05:31.240 However,

NOTE Confidence: 0.8173699

00:05:31.240 --> 00:05:33.640 the treatments for advanced kidney cancer

NOTE Confidence: 0.8173699

00:05:33.640 --> 00:05:35.729 have improved dramatically in recent years.

NOTE Confidence: 0.8173699

00:05:35.730 --> 00:05:37.842 One of the biggest changes has

NOTE Confidence: 0.8173699

00:05:37.842 --> 00:05:40.137 been the development of these oral

NOTE Confidence: 0.8173699

00:05:40.137 --> 00:05:42.187 cancer treatments or pills that

NOTE Confidence: 0.8173699

00:05:42.187 --> 00:05:44.470 target kidney cancer to help shrink

NOTE Confidence: 0.8173699

00:05:44.470 --> 00:05:46.166 or delay its growth.

NOTE Confidence: 0.8173699

00:05:46.166 --> 00:05:48.710 These oral cancer treatments have been

NOTE Confidence: 0.8173699

00:05:48.788 --> 00:05:51.446 allowing people to live years longer,

NOTE Confidence: 0.8173699

00:05:51.450 --> 00:05:53.718 even for people who have what

NOTE Confidence: 0.8173699

00:05:53.718 --> 00:05:55.230 traditionally would have been

NOTE Confidence: 0.8173699

00:05:55.303 --> 00:05:57.547 considered incurable kidney cancer.

NOTE Confidence: 0.8173699

00:05:57.550 --> 00:05:57.986 However,

NOTE Confidence: 0.8173699

00:05:57.986 --> 00:06:00.166 these oral treatments are relatively

NOTE Confidence: 0.8173699

00:06:00.166 --> 00:06:01.910 new to kidney cancer.

NOTE Confidence: 0.8173699

00:06:01.910 --> 00:06:04.778 The first oral agents for kidney

NOTE Confidence: 0.8173699

00:06:04.778 --> 00:06:07.159 cancer became available or were

NOTE Confidence: 0.8173699

00:06:07.159 --> 00:06:10.183 approved by the FDA in 2005 and 2006,

NOTE Confidence: 0.8173699

00:06:10.190 --> 00:06:12.445 but with many similar treatments

NOTE Confidence: 0.8173699

00:06:12.445 --> 00:06:14.700 having been discovered since then.

NOTE Confidence: 0.8173699

00:06:14.700 --> 00:06:17.199 In fact now

NOTE Confidence: 0.8173699

00:06:17.200 --> 00:06:19.222 the 10 first new drugs approved

NOTE Confidence: 0.8173699

00:06:19.222 --> 00:06:21.479 for kidney cancer in recent years,

NOTE Confidence: 0.8173699

00:06:21.480 --> 00:06:24.595 7 out of 10 were oral agents.

NOTE Confidence: 0.8173699

00:06:24.600 --> 00:06:26.590 The interesting thing about oral

NOTE Confidence: 0.8173699

00:06:26.590 --> 00:06:29.030 anti cancer agents is that they

NOTE Confidence: 0.8173699

00:06:29.030 --> 00:06:31.298 represent a shift from how cancer

NOTE Confidence: 0.8173699

00:06:31.298 --> 00:06:33.380 treatment used to be delivered.

NOTE Confidence: 0.8173699

00:06:33.380 --> 00:06:36.159 So as most folks know, cancer treatment

NOTE Confidence: 0.8173699

00:06:36.159 --> 00:06:39.029 used to be almost always intravenous

NOTE Confidence: 0.8173699

00:06:39.029 --> 00:06:42.739 or given by injection at the hospital.

NOTE Confidence: 0.8173699

00:06:42.740 --> 00:06:44.672 So you know it required patients to

NOTE Confidence: 0.8173699

00:06:44.672 --> 00:06:47.096 come to a cancer hospital or clinic

NOTE Confidence: 0.8173699

00:06:47.096 --> 00:06:49.006 in order to receive treatment.

NOTE Confidence: 0.8173699

00:06:49.010 --> 00:06:49.332 However,

NOTE Confidence: 0.8173699

00:06:49.332 --> 00:06:51.586 oral agents are picked up by the

NOTE Confidence: 0.8173699

00:06:51.586 --> 00:06:53.960 patient from the pharmacy and taken home,

NOTE Confidence: 0.8173699

00:06:53.960 --> 00:06:55.424 and unlike intravenous treatments,

NOTE Confidence: 0.8173699

00:06:55.424 --> 00:06:57.620 these oral agents are not taken

NOTE Confidence: 0.8173699

00:06:57.684 --> 00:06:59.238 in front of a medical staff.

NOTE Confidence: 0.8173699

00:06:59.240 --> 00:06:59.526 Instead,

NOTE Confidence: 0.8173699

00:06:59.526 --> 00:07:01.814 they are taken at home by the patients

NOTE Confidence: 0.8173699

00:07:01.814 --> 00:07:04.099 when patients come to a cancer clinic

NOTE Confidence: 0.8173699

00:07:04.099 --> 00:07:06.170 and receive an intravenous chemotherapy,

NOTE Confidence: 0.8173699

00:07:06.170 --> 00:07:07.820 obviously, the doctors know that

NOTE Confidence: 0.8173699

00:07:07.820 --> 00:07:09.470 they're getting the treatment there.

NOTE Confidence: 0.8173699

00:07:09.800 --> 00:07:11.450 The same is not necessarily

NOTE Confidence: 0.8173699

00:07:11.450 --> 00:07:12.770 true for oral agents,

NOTE Confidence: 0.8173699

00:07:12.770 --> 00:07:13.135 however.

NOTE Confidence: 0.8173699

00:07:13.135 --> 00:07:14.960 Patients can forget to take

NOTE Confidence: 0.8173699

00:07:14.960 --> 00:07:15.690 their medications.

NOTE Confidence: 0.8173699

00:07:15.690 --> 00:07:17.325 They can forget or delay

NOTE Confidence: 0.8173699

00:07:17.325 --> 00:07:18.306 refilling their prescriptions.

NOTE Confidence: 0.8173699

00:07:18.310 --> 00:07:19.795 They may not follow the

NOTE Confidence: 0.8173699

00:07:19.795 --> 00:07:21.712 instructions as to when and how

NOTE Confidence: 0.8173699

00:07:21.712 --> 00:07:23.557 to take their medications exactly,

NOTE Confidence: 0.8173699

00:07:23.560 --> 00:07:25.856 or they may choose to stop taking

NOTE Confidence: 0.8173699

00:07:25.856 --> 00:07:26.840 their medication altogether,

NOTE Confidence: 0.8173699

00:07:26.840 --> 00:07:28.850 particularly if they are concerned that

NOTE Confidence: 0.8173699

00:07:28.850 --> 00:07:31.427 they might be having side effects from it,

NOTE Confidence: 0.8173699

00:07:31.430 --> 00:07:33.677 or if the cost of filling the

NOTE Confidence: 0.8173699

00:07:33.677 --> 00:07:35.040 prescription is too high.

NOTE Confidence: 0.8173699

00:07:35.040 --> 00:07:36.870 So my current research has been

NOTE Confidence: 0.8173699

00:07:36.870 --> 00:07:39.539 looking at the use of these oral anti

NOTE Confidence: 0.8173699

00:07:39.539 --> 00:07:41.269 cancer agents and kidney cancer.

NOTE Confidence: 0.8173699

00:07:41.270 --> 00:07:43.298 I'm looking at things like

NOTE Confidence: 0.8173699

00:07:43.298 --> 00:07:44.650 who are receiving them.

NOTE Confidence: 0.8585052

00:07:44.650 --> 00:07:46.384 Are there any racial or economic

NOTE Confidence: 0.8585052

00:07:46.384 --> 00:07:48.199 disparities in access to these drugs?

NOTE Confidence: 0.8585052

00:07:48.200 --> 00:07:50.630 Are patients doing as well as they did in

NOTE Confidence: 0.8585052

00:07:50.630 --> 00:07:52.636 clinical trials when taking these drugs?

NOTE Confidence: 0.8585052

00:07:52.640 --> 00:07:54.705 Because like we were just talking about,

NOTE Confidence: 0.8585052

00:07:54.710 --> 00:07:57.239 when a patient when these drugs were

NOTE Confidence: 0.8585052

00:07:57.239 --> 00:07:59.448 being first studied in a clinical trial,

NOTE Confidence: 0.8585052

00:07:59.450 --> 00:08:01.220 they were being studied in a

NOTE Confidence: 0.8585052

00:08:01.220 --> 00:08:02.105 highly controlled setting,

NOTE Confidence: 0.8585052

00:08:02.110 --> 00:08:04.478 whereas now in the real world,

NOTE Confidence: 0.8585052

00:08:04.480 --> 00:08:05.960 patients are on their own,

NOTE Confidence: 0.8585052

00:08:05.960 --> 00:08:07.140 taking them at home,

NOTE Confidence: 0.8585052

00:08:07.140 --> 00:08:08.636 and then finally,

NOTE Confidence: 0.8585052

00:08:08.636 --> 00:08:09.848 I'm interested in questions

NOTE Confidence: 0.8585052

00:08:09.848 --> 00:08:11.589 like can patients

NOTE Confidence: 0.8585052

00:08:11.590 --> 00:08:13.070 afford to continue taking these

NOTE Confidence: 0.8585052

00:08:13.070 --> 00:08:14.550 drugs based on the cost?

NOTE Confidence: 0.90837944

00:08:15.380 --> 00:08:17.030 Those all sound like really

NOTE Confidence: 0.90837944

00:08:17.030 --> 00:08:17.690 interesting questions.

NOTE Confidence: 0.90837944

00:08:17.690 --> 00:08:22.450 What have you found?

NOTE Confidence: 0.85992414

00:08:22.450 --> 00:08:24.700 What's interesting is that we have

NOTE Confidence: 0.85992414

00:08:24.700 --> 00:08:27.502 found that by 2015 a little over 1/3

NOTE Confidence: 0.85992414

00:08:27.502 --> 00:08:29.962 of patients with kidney cancer with

NOTE Confidence: 0.85992414

00:08:29.962 --> 00:08:32.428 renal cell carcinoma specifically,

NOTE Confidence: 0.85992414

00:08:32.430 --> 00:08:35.468 which is a subset of kidney cancer,

NOTE Confidence: 0.85992414

00:08:35.470 --> 00:08:37.960 were receiving an oral anti cancer

NOTE Confidence: 0.85992414

00:08:37.960 --> 00:08:40.680 agent for their advanced kidney cancer.

NOTE Confidence: 0.85992414

00:08:40.680 --> 00:08:43.572 We know that previous studies have

NOTE Confidence: 0.85992414

00:08:43.572 --> 00:08:45.904 shown that black patients have

NOTE Confidence: 0.85992414

00:08:45.904 --> 00:08:48.056 had about a 10% worse mortality

NOTE Confidence: 0.85992414

00:08:48.056 --> 00:08:49.788 associated with kidney cancer,

NOTE Confidence: 0.85992414

00:08:49.790 --> 00:08:52.175 and we know that this

NOTE Confidence: 0.85992414

00:08:52.175 --> 00:08:54.083 difference is not improved with

NOTE Confidence: 0.85992414

00:08:54.090 --> 00:08:55.230 the introduction of these

NOTE Confidence: 0.85992414

00:08:55.230 --> 00:08:56.750 oral anti cancer agents.

NOTE Confidence: 0.85992414

00:08:56.750 --> 00:08:59.612 We wanted to see if access to these drugs

NOTE Confidence: 0.85992414

00:08:59.612 --> 00:09:02.828 was a potential driver of these disparities.

NOTE Confidence: 0.85992414

00:09:02.830 --> 00:09:03.230 Surprisingly,

NOTE Confidence: 0.85992414

00:09:03.230 --> 00:09:06.430 when we looked we didn't see any difference

NOTE Confidence: 0.85992414

00:09:06.430 --> 00:09:08.910 in access to these drugs by race,

NOTE Confidence: 0.85992414

00:09:08.910 --> 00:09:10.810 ethnicity or any other indicators

NOTE Confidence: 0.85992414

00:09:10.810 --> 00:09:11.950 of socioeconomic status.

NOTE Confidence: 0.85992414

00:09:11.950 --> 00:09:12.323 However,

NOTE Confidence: 0.85992414

00:09:12.323 --> 00:09:14.934 we did see decreased use in these

NOTE Confidence: 0.85992414

00:09:14.934 --> 00:09:17.350 oral agents in patients who were

NOTE Confidence: 0.85992414

00:09:17.350 --> 00:09:19.350 unmarried, patients who were living

NOTE Confidence: 0.85992414

00:09:19.350 --> 00:09:21.586 in the South, and patients who

NOTE Confidence: 0.85992414

00:09:21.586 --> 00:09:24.110 were in older age groups and in

NOTE Confidence: 0.85992414

00:09:24.110 --> 00:09:25.630 this specific patient population

NOTE Confidence: 0.85992414

00:09:25.630 --> 00:09:28.998 that means patients who

NOTE Confidence: 0.85992414

00:09:29.000 --> 00:09:32.006 were in the age group 80 plus.

00:09:32.326 --> 00:09:34.222 We were surprised to see that

NOTE Confidence: 0.85992414

00:09:34.222 --> 00:09:36.276 access to these drugs was not

NOTE Confidence: 0.85992414

00:09:36.276 --> 00:09:38.016 different by race or ethnicity,

NOTE Confidence: 0.85992414

00:09:38.020 --> 00:09:40.316 so we next wanted to see if something

NOTE Confidence: 0.85992414

00:09:40.316 --> 00:09:42.416 else could be driving disparities in

NOTE Confidence: 0.85992414

00:09:42.416 --> 00:09:45.030 kidney cancer outcomes that we know exist.

NOTE Confidence: 0.85992414

00:09:45.030 --> 00:09:47.312 So we looked at adherence to these

NOTE Confidence: 0.85992414

00:09:47.312 --> 00:09:48.942 medications and what we observed

NOTE Confidence: 0.85992414

00:09:48.942 --> 00:09:51.014 was that about half of the patients

NOTE Confidence: 0.85992414

00:09:51.014 --> 00:09:53.209 we studied were adhering to the

NOTE Confidence: 0.85992414

00:09:53.209 --> 00:09:54.677 medication during the first

NOTE Confidence: 0.85992414

00:09:54.677 --> 00:09:56.582 three months of their treatment.

NOTE Confidence: 0.85992414

00:09:56.582 --> 00:09:58.497 So we were interested in the patients

NOTE Confidence: 0.85992414

00:09:58.497 --> 00:10:00.158 who live in areas with

NOTE Confidence: 0.85992414

00:10:00.160 --> 00:10:02.372 high levels of poverty were much less

NOTE Confidence: 0.85992414

00:10:02.372 --> 00:10:04.385 likely to take their medication almost

NOTE Confidence: 0.85992414

00:10:04.385 --> 00:10:07.183 half as likely as those who did not

NOTE Confidence: 0.85992414

00:10:07.183 --> 00:10:09.158 live in high poverty neighborhoods.

NOTE Confidence: 0.85992414

00:10:09.160 --> 00:10:09.478 Also,

NOTE Confidence: 0.85992414

00:10:09.478 --> 00:10:12.022 we found that patients that had to pay more

NOTE Confidence: 0.85992414

00:10:12.022 --> 00:10:14.687 than $200 a month for their medications

NOTE Confidence: 0.85992414

00:10:14.690 --> 00:10:16.520 they were about 30% less likely

NOTE Confidence: 0.85992414

00:10:16.520 --> 00:10:18.481 to be adherent as compared to

NOTE Confidence: 0.85992414

00:10:18.481 --> 00:10:20.161 patients paying less than $200

NOTE Confidence: 0.85992414

00:10:20.161 --> 00:10:22.300 a month for their medication.

NOTE Confidence: 0.85992414

00:10:22.300 --> 00:10:25.760 So when we take a step back from all this,

NOTE Confidence: 0.85992414

00:10:25.760 --> 00:10:27.836 what we think we're seeing is

NOTE Confidence: 0.85992414

00:10:27.836 --> 00:10:29.608 that although poor patients are

NOTE Confidence: 0.85992414

00:10:29.608 --> 00:10:31.570 able to start these drugs because

NOTE Confidence: 0.85992414

00:10:31.570 --> 00:10:33.529 we're not seeing any difference

NOTE Confidence: 0.85992414

00:10:33.530 --> 00:10:34.811 in their initiation,

NOTE Confidence: 0.85992414

00:10:34.811 --> 00:10:38.235 they may not be able to continue to

NOTE Confidence: 0.85992414

00:10:38.235 --> 00:10:41.011 take them or to continue to take them

NOTE Confidence: 0.85992414

00:10:41.011 --> 00:10:43.779 as often as they are prescribed,

NOTE Confidence: 0.85992414

00:10:43.780 --> 00:10:45.895 because we're seeing decreases in

NOTE Confidence: 0.85992414

00:10:45.895 --> 00:10:48.515 the adherence to these drugs and

NOTE Confidence: 0.85992414

00:10:48.515 --> 00:10:51.095 that could be affecting the

NOTE Confidence: 0.85992414

00:10:51.095 --> 00:10:52.799 differential outcomes that

NOTE Confidence: 0.85992414

00:10:52.799 --> 00:10:54.845 we know exist in patients with kidney cancer.

NOTE Confidence: 0.8784148

00:10:54.850 --> 00:10:58.126 So when you control

NOTE Confidence: 0.8784148

00:10:58.126 --> 00:11:00.796 for socioeconomic status and

NOTE Confidence: 0.8784148

00:11:00.796 --> 00:11:03.540 you look at the impact on race

NOTE Confidence: 0.8784148

00:11:03.540 --> 00:11:07.306 did you find that that was a

NOTE Confidence: 0.8784148

00:11:07.306 --> 00:11:09.959 driver that

NOTE Confidence: 0.8784148

00:11:09.960 --> 00:11:11.403 mediated the relationship

NOTE Confidence: 0.8784148

00:11:11.403 --> 00:11:13.327 between race and outcomes?

00:11:15.260 --> 00:11:20.630 I think that

NOTE Confidence: 0.7912994

00:11:20.630 --> 00:11:21.966 is a good interpretation of

NOTE Confidence: 0.7912994

00:11:21.966 --> 00:11:23.303 what we're seeing, right?

NOTE Confidence: 0.7912994

00:11:23.303 --> 00:11:25.634 So I think what you're asking is,

NOTE Confidence: 0.7912994

00:11:25.640 --> 00:11:27.985 when you look at everything

NOTE Confidence: 0.7912994

00:11:27.985 --> 00:11:30.319 in the same model,

NOTE Confidence: 0.7912994

00:11:30.320 --> 00:11:32.323 we're seeing that yes,

NOTE Confidence: 0.7912994

00:11:32.323 --> 00:11:34.321 poverty is driving this measure

NOTE Confidence: 0.7912994

00:11:34.321 --> 00:11:36.326 of adherence, but we're not

NOTE Confidence: 0.7912994

00:11:36.326 --> 00:11:37.996 seeing an association with race,

NOTE Confidence: 0.7912994

00:11:38.000 --> 00:11:40.331 but I think what you're

NOTE Confidence: 0.7912994

00:11:40.331 --> 00:11:41.855 getting at, which is correct,

NOTE Confidence: 0.7912994

00:11:41.855 --> 00:11:44.323 is that the kind of

NOTE Confidence: 0.7912994

00:11:44.323 --> 00:11:46.348 interaction between race and poverty,

NOTE Confidence: 0.7912994

00:11:46.350 --> 00:11:49.370 those are two very closely

NOTE Confidence: 0.7912994

00:11:49.370 --> 00:11:52.597 related.

NOTE Confidence: 0.7912994

00:11:52.600 --> 00:11:54.890 So yes, seeing an association

NOTE Confidence: 0.7912994

00:11:54.890 --> 00:11:57.180 in one might be attenuating

NOTE Confidence: 0.7912994

00:11:57.258 --> 00:11:59.508 the association in the other.

NOTE Confidence: 0.84369004

00:12:00.120 --> 00:12:03.298 Did you look at that?

NOTE Confidence: 0.84369004

00:12:03.300 --> 00:12:06.716 The reason I ask is

NOTE Confidence: 0.84369004

00:12:06.716 --> 00:12:09.549 because we've seen a similar thing

NOTE Confidence: 0.84369004

00:12:09.549 --> 00:12:12.375 across a number of disease sites.

NOTE Confidence: 0.84369004

00:12:12.380 --> 00:12:15.068 I did a study just recently

NOTE Confidence: 0.84369004

00:12:15.068 --> 00:12:17.364 looking at breast cancer survivors

NOTE Confidence: 0.84369004

00:12:17.364 --> 00:12:20.550 and their use of endocrine therapy,

NOTE Confidence: 0.84369004

00:12:20.550 --> 00:12:23.665 which is also an oral agent that

NOTE Confidence: 0.84369004

00:12:23.665 --> 00:12:27.140 women take for at least five years

NOTE Confidence: 0.84369004

00:12:27.140 --> 00:12:30.206 and very similar to your findings,

NOTE Confidence: 0.84369004

00:12:30.210 --> 00:12:32.640 did not find that there was

NOTE Confidence: 0.84369004

00:12:32.640 --> 00:12:34.710 necessarily a difference by race,

NOTE Confidence: 0.84369004

00:12:34.710 --> 00:12:37.139 which we had thought might have been

NOTE Confidence: 0.84369004

00:12:37.139 --> 00:12:39.712 a factor when looking at whether

NOTE Confidence: 0.84369004

00:12:39.712 --> 00:12:41.656 people took these medications,

NOTE Confidence: 0.84369004

00:12:41.660 --> 00:12:44.660 but we we were looking at the question

NOTE Confidence: 0.84369004

00:12:44.660 --> 00:12:47.750 of did you not take this medication

NOTE Confidence: 0.84369004

00:12:47.750 --> 00:12:50.858 as prescribed due to cost and we

NOTE Confidence: 0.84369004

00:12:50.858 --> 00:12:53.546 thought there may be a

NOTE Confidence: 0.84369004

00:12:53.546 --> 00:12:55.980 racial disparity in terms of that.

NOTE Confidence: 0.84369004

00:12:55.980 --> 00:12:58.428 But when we looked at it,

NOTE Confidence: 0.84369004

00:12:58.430 --> 00:13:01.046 we didn't find a racial disparity

NOTE Confidence: 0.84369004

00:13:01.046 --> 00:13:02.354 but really found a

NOTE Confidence: 0.84369004

00:13:02.360 --> 00:13:04.922 difference very much as you say

NOTE Confidence: 0.84369004

00:13:04.922 --> 00:13:08.095 in terms of poverty and in terms of

NOTE Confidence: 0.84369004

00:13:08.095 --> 00:13:10.990 whether or not people had insurance.

NOTE Confidence: 0.84369004

00:13:10.990 --> 00:13:14.362 I'm wondering if

NOTE Confidence: 0.84369004

00:13:14.362 --> 00:13:16.610 you controlled for poverty

NOTE Confidence: 0.84369004

00:13:16.610 --> 00:13:18.818 and whether we still see a

NOTE Confidence: 0.84369004

00:13:18.818 --> 00:13:20.846 difference in outcomes between black

NOTE Confidence: 0.84369004

00:13:20.846 --> 00:13:22.806 patients and Caucasian patients.

NOTE Confidence: 0.84369004

00:13:22.810 --> 00:13:25.694 So in our city we did not

NOTE Confidence: 0.84505254

00:13:25.700 --> 00:13:27.760 see a difference by race,

NOTE Confidence: 0.84505254

00:13:27.760 --> 00:13:31.064 but we did see a difference by poverty.

NOTE Confidence: 0.84505254

00:13:31.070 --> 00:13:34.470 So by both indicators of poverty and

NOTE Confidence: 0.84505254

00:13:34.470 --> 00:13:37.668 race were in the model and the

NOTE Confidence: 0.84505254

00:13:37.670 --> 00:13:40.554 association by race, as you said,

NOTE Confidence: 0.84505254

00:13:40.560 --> 00:13:43.912 for your city was not significant where it

NOTE Confidence: 0.84505254

00:13:43.912 --> 00:13:47.517 was for the indicators of poverty level.

NOTE Confidence: 0.84505254

00:13:47.520 --> 00:13:48.652 Does that make sense?

NOTE Confidence: 0.84505254

00:13:48.652 --> 00:13:50.067 So even though they were

NOTE Confidence: 0.84505254

00:13:50.067 --> 00:13:51.410 both in the model race,

NOTE Confidence: 0.84505254

00:13:51.410 --> 00:13:53.634 we did not find an association with race,

NOTE Confidence: 0.84505254

00:13:53.640 --> 00:13:55.030 but we did with poverty,

NOTE Confidence: 0.84505254

00:13:55.030 --> 00:13:57.342 and I guess the point that I was

NOTE Confidence: 0.84505254

00:13:57.342 --> 00:13:59.311 trying to make earlier is that

NOTE Confidence: 0.84505254

00:13:59.311 --> 00:14:00.956 we know you that

NOTE Confidence: 0.84505254

00:14:00.960 --> 00:14:03.860 unfortunately, in this country,

NOTE Confidence: 0.84505254

00:14:03.860 --> 00:14:07.485 poverty differentially impacts folks

00:14:11.500 --> 00:14:13.768 by race and ethnicity.

NOTE Confidence: 0.84936315

00:14:13.770 --> 00:14:16.050 This is such an

NOTE Confidence: 0.84936315

00:14:16.050 --> 00:14:16.810 interesting conversation,

NOTE Confidence: 0.84936315

00:14:16.810 --> 00:14:19.057 but we need to take a short

NOTE Confidence: 0.84936315

00:14:19.057 --> 00:14:21.350 break for a medical minute.

NOTE Confidence: 0.84936315

00:14:21.350 --> 00:14:23.624 Please stay tuned to learn more

NOTE Confidence: 0.84936315

00:14:23.624 --> 00:14:25.140 about cancer prevention with

NOTE Confidence: 0.84936315

00:14:25.140 --> 00:14:26.656 my guest Doctor Michaela Dinan.

NOTE Confidence: 0.84936315

00:14:26.656 --> 00:14:28.930 Support for Yale Cancer Answers

NOTE Confidence: 0.84936315

00:14:28.930 --> 00:14:31.396 comes from AstraZeneca, working

NOTE Confidence: 0.84936315

00:14:31.396 --> 00:14:34.240 to eliminate cancer as a cause of death.

NOTE Confidence: 0.84936315

00:14:34.240 --> 00:14:37.528 Learn more at astrazeneca-us.com.

NOTE Confidence: 0.84936315

00:14:37.530 --> 00:14:39.590 This is a medical minute

NOTE Confidence: 0.84936315

00:14:39.590 --> 00:14:40.826 about colorectal cancer.

NOTE Confidence: 0.84936315

00:14:40.830 --> 00:14:42.231 When detected early,

NOTE Confidence: 0.84936315

00:14:42.231 --> 00:14:44.566 colorectal cancer is easily treated

NOTE Confidence: 0.84936315

00:14:44.566 --> 00:14:47.449 on highly curable and as a result

NOTE Confidence: 0.84936315

00:14:47.449 --> 00:14:49.779 it's recommended that men and women

NOTE Confidence: 0.84936315

00:14:49.779 --> 00:14:52.453 over the age of 50 have regular

NOTE Confidence: 0.84936315

00:14:52.453 --> 00:14:54.728 colonoscopies to screen for the disease.

NOTE Confidence: 0.84936315

00:14:54.728 --> 00:14:56.613 Tumor gene analysis has helped

NOTE Confidence: 0.84936315

00:14:56.613 --> 00:14:58.352 improve management of colorectal

NOTE Confidence: 0.84936315

00:14:58.352 --> 00:15:00.512 cancer by identifying the patients

NOTE Confidence: 0.84936315

00:15:00.512 --> 00:15:02.695 most likely to benefit from

NOTE Confidence: 0.84936315

00:15:02.695 --> 00:15:04.785 chemotherapy and newer targeted agents,

NOTE Confidence: 0.84936315

00:15:04.790 --> 00:15:06.690 resulting in more patient

NOTE Confidence: 0.84936315

00:15:06.690 --> 00:15:07.640 specific treatments.

NOTE Confidence: 0.84936315

00:15:07.640 --> 00:15:09.672 More information is available

NOTE Confidence: 0.84936315

00:15:09.672 --> 00:15:10.688 at yalecancercenter.org.

NOTE Confidence: 0.84936315

00:15:10.690 --> 00:15:14.866 You're listening to Connecticut Public Radio.

NOTE Confidence: 0.84936315

00:15:14.870 --> 00:15:15.310 Welcome

NOTE Confidence: 0.8455588

00:15:15.310 --> 00:15:17.500 back to Yale Cancer Answers.

NOTE Confidence: 0.8455588

00:15:17.500 --> 00:15:20.212 This is doctor Anees Chagpar and

NOTE Confidence: 0.8455588

00:15:20.212 --> 00:15:23.164 I'm joined tonight by my guest Doctor

NOTE Confidence: 0.8455588

00:15:23.164 --> 00:15:25.354 Michaela Dinan and we're talking

NOTE Confidence: 0.8455588

00:15:25.429 --> 00:15:28.034 about cancer prevention and more,

NOTE Confidence: 0.8455588

00:15:28.034 --> 00:15:30.639 specifically, right before the break

NOTE Confidence: 0.8455588

00:15:30.640 --> 00:15:32.388 Michaela you were telling

NOTE Confidence: 0.8455588

00:15:32.388 --> 00:15:34.136 us about your research

NOTE Confidence: 0.8455588

00:15:34.140 --> 00:15:36.255 looking at disparities that we

NOTE Confidence: 0.8455588

00:15:36.255 --> 00:15:38.370 see in outcomes between African

NOTE Confidence: 0.8455588

00:15:38.444 --> 00:15:40.384 American patients and Caucasian

NOTE Confidence: 0.8455588

00:15:40.384 --> 00:15:42.809 patients with regards to kidney

NOTE Confidence: 0.8455588

00:15:42.809 --> 00:15:44.897 cancer and renal cell cancer.

NOTE Confidence: 0.8455588

00:15:44.900 --> 00:15:46.361 In particular,

NOTE Confidence: 0.8455588

00:15:46.361 --> 00:15:48.796 you were looking specifically

NOTE Confidence: 0.8455588

00:15:48.800 --> 00:15:52.592 then at oral agents and found that really

NOTE Confidence: 0.8455588

00:15:52.592 --> 00:15:56.100 race was not a driver of adherence,

NOTE Confidence: 0.8455588

00:15:56.100 --> 00:15:59.016 but really poverty was, so a

NOTE Confidence: 0.8455588

00:15:59.016 --> 00:16:00.474 couple of questions.

NOTE Confidence: 0.8455588

00:16:00.480 --> 00:16:04.312 Has anybody gone back and looked at the

NOTE Confidence: 0.8455588

00:16:04.312 --> 00:16:06.818 correlation between race and outcomes?

NOTE Confidence: 0.8455588

00:16:06.820 --> 00:16:10.502 That kind of drove your research to

NOTE Confidence: 0.8455588

00:16:10.502 --> 00:16:14.928 begin with and took a step back and said

NOTE Confidence: 0.8455588

00:16:14.930 --> 00:16:17.918 uncoupling that from poverty is

NOTE Confidence: 0.8455588

00:16:17.918 --> 00:16:19.412 it really poverty

NOTE Confidence: 0.8455588

00:16:19.420 --> 00:16:22.906 that is the driver of those outcomes,

NOTE Confidence: 0.8455588

00:16:22.910 --> 00:16:26.558 or is it really race and the poverty

NOTE Confidence: 0.8455588

00:16:26.558 --> 00:16:28.676 by association with nonadherence

NOTE Confidence: 0.8455588

00:16:28.676 --> 00:16:30.900 is a separate issue?

00:16:33.305 --> 00:16:36.476 Yeah, so the overall question of

NOTE Confidence: 0.8818295

00:16:36.476 --> 00:16:39.248 why is there differential outcomes for

NOTE Confidence: 0.8818295

00:16:39.248 --> 00:16:42.019 patients of black race with kidney cancer?

NOTE Confidence: 0.8818295

00:16:42.020 --> 00:16:44.757 That's a bigger question and the studies

NOTE Confidence: 0.8818295

00:16:44.757 --> 00:16:47.170 that have looked at that question

NOTE Confidence: 0.8818295

00:16:47.170 --> 00:16:49.802 some of them have certainly

NOTE Confidence: 0.8818295

00:16:49.802 --> 00:16:52.668 included measures of poverty in them and

NOTE Confidence: 0.8818295

00:16:52.668 --> 00:16:55.164 have still found a significant association

NOTE Confidence: 0.8818295

00:16:55.241 --> 00:16:57.455 between race and outcomes as well.

NOTE Confidence: 0.8818295

00:16:57.460 --> 00:16:59.044 You're right and

NOTE Confidence: 0.8818295

00:16:59.044 --> 00:17:00.628 our study was specifically a

00:17:02.710 --> 00:17:05.210 subset of that question.

NOTE Confidence: 0.8818295

00:17:05.210 --> 00:17:07.210 Because we were specifically

NOTE Confidence: 0.8818295

00:17:07.210 --> 00:17:08.710 interested in

NOTE Confidence: 0.8818295

00:17:08.710 --> 00:17:12.021 how are oral anti cancer agents either

NOTE Confidence: 0.8818295

00:17:12.021 --> 00:17:15.048 contributing or not contributing to this

NOTE Confidence: 0.8818295

00:17:15.048 --> 00:17:18.084 kind of pre observed disparity that

NOTE Confidence: 0.8818295

00:17:18.084 --> 00:17:21.207 we've seen in kidney cancer patients?

NOTE Confidence: 0.8818295

00:17:21.210 --> 00:17:24.060 So because oral anti cancer agents

NOTE Confidence: 0.8818295

00:17:24.060 --> 00:17:26.570 were a relatively knew technology

NOTE Confidence: 0.8818295

00:17:26.570 --> 00:17:29.205 in the kidney cancer space,

NOTE Confidence: 0.8818295

00:17:29.210 --> 00:17:32.857 we wanted to see whether or not

NOTE Confidence: 0.8818295

00:17:32.860 --> 00:17:35.075 they were contributing

NOTE Confidence: 0.8818295

00:17:35.075 --> 00:17:37.290 to an attenuation of

NOTE Confidence: 0.8818295

00:17:37.373 --> 00:17:39.369 this disparity in outcomes,

NOTE Confidence: 0.8818295

00:17:39.370 --> 00:17:41.475 or whether it was contributing

NOTE Confidence: 0.8818295

00:17:41.475 --> 00:17:43.580 to a potential widening of

NOTE Confidence: 0.8818295

00:17:43.661 --> 00:17:45.877 these disparities in outcomes.

NOTE Confidence: 0.8818295

00:17:45.880 --> 00:17:46.345 Because

NOTE Confidence: 0.8818295

00:17:47.275 --> 00:17:49.600 previous research of both mine

NOTE Confidence: 0.8818295

00:17:49.600 --> 00:17:52.689 and other folks looking at the

NOTE Confidence: 0.8818295

00:17:52.689 --> 00:17:54.769 emergence of medical technologies

NOTE Confidence: 0.8818295

00:17:54.769 --> 00:17:57.465 and cancers has shown that

NOTE Confidence: 0.8818295

00:17:57.465 --> 00:18:00.305 sometimes it can go either way.

NOTE Confidence: 0.8818295

00:18:00.305 --> 00:18:03.155 It can either help mitigate disparities

NOTE Confidence: 0.8818295

00:18:03.160 --> 00:18:06.065 or sometimes it can help widen disparities

NOTE Confidence: 0.8818295

00:18:06.070 --> 00:18:07.180 if there's

NOTE Confidence: 0.8818295

00:18:07.180 --> 00:18:09.030 an additional element of decreased

NOTE Confidence: 0.8818295

00:18:09.030 --> 00:18:11.049 access for certain populations.

00:18:12.295 --> 00:18:14.370 The other question that

NOTE Confidence: 0.865242

00:18:14.370 --> 00:18:17.226 I had was when we were talking earlier

NOTE Confidence: 0.865242

00:18:17.226 --> 00:18:19.898 before the break about the whole

NOTE Confidence: 0.865242

00:18:19.898 --> 00:18:22.248 concept of health services research,

NOTE Confidence: 0.865242

00:18:22.250 --> 00:18:24.840 one of the really important points you

NOTE Confidence: 0.865242

00:18:24.840 --> 00:18:27.763 made is that health services

NOTE Confidence: 0.865242

00:18:27.763 --> 00:18:30.373 research really looks at real world

NOTE Confidence: 0.865242

00:18:30.448 --> 00:18:33.346 outcomes as opposed to trials.

NOTE Confidence: 0.865242

00:18:33.350 --> 00:18:37.900 And clinical trials sadly do not necessarily

NOTE Confidence: 0.865242

00:18:37.900 --> 00:18:40.830 include the population at large,

NOTE Confidence: 0.865242

00:18:40.830 --> 00:18:45.806 and so when we think about clinical trials,

NOTE Confidence: 0.865242

00:18:45.810 --> 00:18:48.298 particularly with oral agents

NOTE Confidence: 0.865242

00:18:48.298 --> 00:18:50.164 for kidney cancer,

NOTE Confidence: 0.865242

00:18:50.170 --> 00:18:53.908 did those include African American patients,

NOTE Confidence: 0.865242

00:18:53.910 --> 00:18:58.278 and were the outcomes in those

NOTE Confidence: 0.865242

00:18:58.278 --> 00:19:01.190 African American patients equivalent

NOTE Confidence: 0.865242

00:19:01.299 --> 00:19:03.690 to Caucasian patients?

NOTE Confidence: 0.865242

00:19:03.690 --> 00:19:06.678 I mean, could that partly explain

NOTE Confidence: 0.865242

00:19:06.678 --> 00:19:08.930 some of these disparities as well?

NOTE Confidence: 0.88480127

00:19:08.930 --> 00:19:11.780 That's a great question,

NOTE Confidence: 0.88480127

00:19:11.780 --> 00:19:14.594 and again, it points to a broader

NOTE Confidence: 0.88480127

00:19:14.594 --> 00:19:17.983 issue where clinical trials in

NOTE Confidence: 0.88480127

00:19:17.983 --> 00:19:20.608 general struggle to be representative

NOTE Confidence: 0.88480127

00:19:20.608 --> 00:19:23.678 of the general population,

NOTE Confidence: 0.88480127

00:19:23.680 --> 00:19:25.830 and there are certainly efforts

NOTE Confidence: 0.88480127

00:19:25.830 --> 00:19:28.595 to make those clinical trials more

NOTE Confidence: 0.88480127

00:19:28.595 --> 00:19:31.300 representative of the general population.

NOTE Confidence: 0.88480127

00:19:31.300 --> 00:19:34.975 But that's something that continues to be

00:19:38.074 --> 00:19:40.576 addressed and certainly race is 1

NOTE Confidence: 0.88480127

00:19:40.576 --> 00:19:42.760 area where there have been efforts

NOTE Confidence: 0.88480127

00:19:42.760 --> 00:19:45.539 to make them more representative.

NOTE Confidence: 0.88480127

00:19:45.540 --> 00:19:48.380 I think 1 area where trials continue to

NOTE Confidence: 0.88480127

00:19:48.380 --> 00:19:50.299 struggle with their representativeness

NOTE Confidence: 0.88480127

00:19:50.299 --> 00:19:52.575 is with older populations,

NOTE Confidence: 0.88480127

00:19:52.580 --> 00:19:55.442 and I think that's something that's

NOTE Confidence: 0.88480127

00:19:55.442 --> 00:19:57.350 particularly relevant to cancer

NOTE Confidence: 0.88480127

00:19:57.429 --> 00:20:00.208 patients because a lot of cancers tend
NOTE Confidence: 0.88480127
00:20:00.210 --> 00:20:02.664 to have median age of diagnosis
NOTE Confidence: 0.88480127
00:20:02.664 --> 00:20:06.050 for the 65 plus patient population,
NOTE Confidence: 0.88480127
00:20:06.050 --> 00:20:10.082 and yet those people tend to be very
NOTE Confidence: 0.88480127
00:20:10.082 --> 00:20:12.868 under represented in trials.
NOTE Confidence: 0.88480127
00:20:12.870 --> 00:20:13.844 For instance,
NOTE Confidence: 0.88480127
00:20:13.844 --> 00:20:17.740 I think one great example of this is
00:20:18.690 --> 00:20:21.065 with an you emerging medical
NOTE Confidence: 0.88480127
00:20:21.065 --> 00:20:23.558 technology which is relevant to
NOTE Confidence: 0.88480127
00:20:23.558 --> 00:20:26.504 kidney cancer but also other
NOTE Confidence: 0.88480127
00:20:26.510 --> 00:20:29.125 cancers are immunotherapies
NOTE Confidence: 0.88480127
00:20:29.125 --> 00:20:31.217 or immune checkpoint inhibitors.
NOTE Confidence: 0.88480127
00:20:31.220 --> 00:20:32.152 And again,
NOTE Confidence: 0.88480127
00:20:32.152 --> 00:20:34.482 older folks in those clinical
NOTE Confidence: 0.88480127
00:20:34.482 --> 00:20:37.199 trials are under represented and
NOTE Confidence: 0.88480127
00:20:37.200 --> 00:20:40.182 yet there's this kind of assumption
NOTE Confidence: 0.88480127

00:20:40.182 --> 00:20:42.646 that these immune checkpoint inhibitors

NOTE Confidence: 0.88480127

00:20:42.646 --> 00:20:45.418 are going to be less toxic than

NOTE Confidence: 0.88480127

00:20:45.418 --> 00:20:48.773 the standard or previously

NOTE Confidence: 0.88480127

00:20:48.773 --> 00:20:50.636 used cytotoxic chemotherapies.

NOTE Confidence: 0.88480127

00:20:50.640 --> 00:20:52.212 And so you know,

NOTE Confidence: 0.88480127

00:20:52.212 --> 00:20:55.229 a lot of physicians have been operating

NOTE Confidence: 0.88480127

00:20:55.229 --> 00:20:58.619 under the assumption that the toxicity

NOTE Confidence: 0.88480127

00:20:58.619 --> 00:21:01.770 profiles of these immune oncology

NOTE Confidence: 0.88480127

00:21:01.770 --> 00:21:04.212 agents is less than traditional

NOTE Confidence: 0.88480127

00:21:04.212 --> 00:21:06.778 therapies and so have been more

NOTE Confidence: 0.88480127

00:21:06.778 --> 00:21:08.923 willing to give these therapies

NOTE Confidence: 0.88480127

00:21:08.923 --> 00:21:11.467 to older patients and yet it's

NOTE Confidence: 0.88480127

00:21:11.467 --> 00:21:13.825 not really based on clinical trial

NOTE Confidence: 0.88480127

00:21:13.825 --> 00:21:15.880 data because that clinical trial

NOTE Confidence: 0.88480127

00:21:15.880 --> 00:21:17.540 data doesn't readily exist,

NOTE Confidence: 0.88480127

00:21:17.540 --> 00:21:20.340 and so one of the things I'm interested

NOTE Confidence: 0.88480127

00:21:20.340 --> 00:21:23.529 in potentially looking at in the

NOTE Confidence: 0.88480127

00:21:23.529 --> 00:21:26.418 future is real world utilization of

NOTE Confidence: 0.88480127

00:21:26.418 --> 00:21:29.190 these drugs in patients who were again

NOTE Confidence: 0.88480127

00:21:29.190 --> 00:21:32.105 not going to be represented and in

NOTE Confidence: 0.88480127

00:21:32.105 --> 00:21:34.220 standard trials and whose outcomes,

NOTE Confidence: 0.88480127

00:21:34.220 --> 00:21:36.728 whose toxicity profiles may look very

NOTE Confidence: 0.88480127

00:21:36.728 --> 00:21:38.838 different than what is typically

NOTE Confidence: 0.88480127

00:21:38.838 --> 00:21:40.286 seen in a trial.

00:21:40.710 --> 00:21:43.242 I think that

NOTE Confidence: 0.8477308

00:21:43.242 --> 00:21:44.930 it's so important,

NOTE Confidence: 0.8477308

00:21:44.930 --> 00:21:47.120 especially when we think about the

NOTE Confidence: 0.8477308

00:21:47.120 --> 00:21:49.694 fact that these drugs may affect

NOTE Confidence: 0.8477308

00:21:49.694 --> 00:21:51.648 different people differently, right?

NOTE Confidence: 0.8477308

00:21:51.648 --> 00:21:54.752 I mean, I think we've seen this even

NOTE Confidence: 0.8477308

00:21:54.752 --> 00:21:57.759 in the cardiology world back in the

NOTE Confidence: 0.8477308

00:21:57.759 --> 00:22:00.845 day when only men were included in

NOTE Confidence: 0.8477308

00:22:00.845 --> 00:22:03.911 some of the the heart attack trials

NOTE Confidence: 0.8477308

00:22:03.920 --> 00:22:06.797 and we realized that women's

NOTE Confidence: 0.8477308

00:22:06.797 --> 00:22:08.551 heart attacks present differently

NOTE Confidence: 0.8477308

00:22:08.551 --> 00:22:11.239 than men's heart attacks and

NOTE Confidence: 0.8477308

00:22:11.240 --> 00:22:12.912 drugs may affect different

NOTE Confidence: 0.8477308

00:22:12.912 --> 00:22:13.748 genders differently,

NOTE Confidence: 0.8477308

00:22:13.750 --> 00:22:16.342 and similarly we may find that

NOTE Confidence: 0.8477308

00:22:16.342 --> 00:22:18.070 there are differences based

NOTE Confidence: 0.8477308

00:22:18.154 --> 00:22:20.019 on race and other things,

NOTE Confidence: 0.8477308

00:22:20.020 --> 00:22:23.684 and so trying to tease out what really

NOTE Confidence: 0.8477308

00:22:23.684 --> 00:22:27.826 is at the root of these disparities,

NOTE Confidence: 0.8477308

00:22:27.830 --> 00:22:31.174 it really does require some as you call

NOTE Confidence: 0.8477308

00:22:31.174 --> 00:22:34.587 it real world kind of investigation.

NOTE Confidence: 0.8569479

00:22:34.590 --> 00:22:39.420 Yes, and this is all

NOTE Confidence: 0.8569479

00:22:39.420 --> 00:22:42.878 so relevant right now in the times

NOTE Confidence: 0.8569479

00:22:42.878 --> 00:22:45.699 of COVID-19 where we have this very big need

00:22:48.876 --> 00:22:51.500 to get vaccines approved and treatments

NOTE Confidence: 0.8569479

00:22:51.500 --> 00:22:54.400 approved as quickly as possible.

NOTE Confidence: 0.8569479

00:22:54.400 --> 00:22:57.858 But again, we already know that COVID-19

NOTE Confidence: 0.8569479

00:22:57.860 --> 00:22:58.990 is affecting

NOTE Confidence: 0.7350321

00:23:01.530 --> 00:23:04.375 minority racial and ethnic patients

NOTE Confidence: 0.7350321

00:23:04.375 --> 00:23:08.120 differently than it is white patients.

NOTE Confidence: 0.7350321

00:23:08.120 --> 00:23:11.110 We know that there's differential

NOTE Confidence: 0.7350321

00:23:11.110 --> 00:23:15.460 outcomes.

NOTE Confidence: 0.7350321

00:23:15.460 --> 00:23:18.785 we know that there are differential outcomes.

00:23:27.808 --> 00:23:31.232 Covid is affecting

NOTE Confidence: 0.8349881

00:23:31.232 --> 00:23:33.867 minority patients much more severely

NOTE Confidence: 0.8349881

00:23:33.952 --> 00:23:36.347 than it is Caucasian patients.

NOTE Confidence: 0.8349881

00:23:36.350 --> 00:23:39.068 What I think is really important,

NOTE Confidence: 0.8349881

00:23:39.070 --> 00:23:41.230 thinking about COVID-19 is that

NOTE Confidence: 0.8349881

00:23:41.230 --> 00:23:43.898 you know the clinical trials

NOTE Confidence: 0.8349881

00:23:43.898 --> 00:23:46.922 that were done really did have a

NOTE Confidence: 0.8349881

00:23:46.922 --> 00:23:48.867 reasonably robust representation of

NOTE Confidence: 0.8349881

00:23:48.867 --> 00:23:51.879 minority patients

NOTE Confidence: 0.8349881

00:23:51.880 --> 00:23:54.840 and so it's led us to believe

NOTE Confidence: 0.8349881

00:23:54.840 --> 00:23:58.336 that the vaccines should work equally

NOTE Confidence: 0.8349881

00:23:58.336 --> 00:24:01.008 efficaciously for minority patients.

NOTE Confidence: 0.8349881

00:24:01.010 --> 00:24:03.038 For African American patients,

NOTE Confidence: 0.8349881

00:24:03.038 --> 00:24:06.080 as it should for Caucasian patients.

NOTE Confidence: 0.8349881

00:24:06.080 --> 00:24:09.116 But bringing it back to kind

NOTE Confidence: 0.8349881

00:24:09.116 --> 00:24:10.634 of health services

NOTE Confidence: 0.8349881

00:24:10.640 --> 00:24:14.189 research and real world science is

NOTE Confidence: 0.8349881

00:24:14.190 --> 00:24:16.600 this vaccine hesitancy

NOTE Confidence: 0.8349881

00:24:16.600 --> 00:24:20.270 and the fact that we're seeing,

NOTE Confidence: 0.8349881

00:24:20.270 --> 00:24:22.970 at least by anecdote, that

NOTE Confidence: 0.8349881

00:24:22.970 --> 00:24:25.320 there may be more reluctance

NOTE Confidence: 0.8349881

00:24:25.320 --> 00:24:27.670 to really embrace the vaccine

NOTE Confidence: 0.8349881

00:24:27.759 --> 00:24:29.868 amongst African Americans,

NOTE Confidence: 0.8349881

00:24:29.870 --> 00:24:34.622 who sadly are the most affected and who

NOTE Confidence: 0.8349881

00:24:34.622 --> 00:24:38.998 probably could use the vaccine the most.

00:24:40.500 --> 00:24:42.000 So how do you

NOTE Confidence: 0.8349881

00:24:42.000 --> 00:24:45.829 address that in terms

NOTE Confidence: 0.8349881

00:24:45.829 --> 00:24:49.540 of trying to understand

NOTE Confidence: 0.8349881

00:24:49.540 --> 00:24:51.670 data from clinical trials

NOTE Confidence: 0.8349881

00:24:51.670 --> 00:24:53.800 are applied in the real

NOTE Confidence: 0.8662269

00:24:53.800 --> 00:24:55.930 world?

NOTE Confidence: 0.8662269

00:24:55.930 --> 00:24:57.205 Yeah, it's an interesting

NOTE Confidence: 0.8662269

00:24:57.205 --> 00:24:58.905 conundrum.

NOTE Confidence: 0.8662269

00:24:58.910 --> 00:25:02.969 I think that in terms of people's

NOTE Confidence: 0.8662269

00:25:02.969 --> 00:25:05.296 willingness to take a vaccine,

NOTE Confidence: 0.8662269

00:25:05.300 --> 00:25:08.408 their willingness to kind of accept data

NOTE Confidence: 0.8662269

00:25:08.408 --> 00:25:11.270 from clinical trials as relevant to them

NOTE Confidence: 0.8662269

00:25:11.270 --> 00:25:14.214 I think that that largely depends on the

NOTE Confidence: 0.8662269

00:25:14.214 --> 00:25:16.798 messaging and inconsistent messaging.

NOTE Confidence: 0.8662269

00:25:16.800 --> 00:25:20.724 I think that part of the problem is that

NOTE Confidence: 0.8662269

00:25:20.730 --> 00:25:23.502 some of these issues

NOTE Confidence: 0.8662269

00:25:23.502 --> 00:25:26.253 are incredibly entrenched and

NOTE Confidence: 0.8662269

00:25:26.253 --> 00:25:28.628 systemic issues that are longstanding

NOTE Confidence: 0.8662269

00:25:28.701 --> 00:25:31.108 for some of these populations, right?

NOTE Confidence: 0.8662269

00:25:31.108 --> 00:25:33.508 And so

NOTE Confidence: 0.8662269

00:25:33.508 --> 00:25:35.528 they're not specific to necessarily

NOTE Confidence: 0.8662269

00:25:35.528 --> 00:25:37.489 one vaccine or one trial,

NOTE Confidence: 0.8662269

00:25:37.490 --> 00:25:40.354 but generations of a health care

NOTE Confidence: 0.8662269

00:25:40.354 --> 00:25:42.870 system that hasn't necessarily always acted

NOTE Confidence: 0.8662269

00:25:42.870 --> 00:25:45.860 in their best interest, right?

NOTE Confidence: 0.8662269

00:25:45.860 --> 00:25:48.590 So I think just going forward

NOTE Confidence: 0.8662269

00:25:48.590 --> 00:25:51.176 a consistent message of

NOTE Confidence: 0.8662269

00:25:51.176 --> 00:25:52.550 representation for everyone

NOTE Confidence: 0.8662269

00:25:52.550 --> 00:25:53.924 concerned for everyone,

NOTE Confidence: 0.8662269

00:25:53.930 --> 00:25:57.323 I think is going to be really important

NOTE Confidence: 0.8662269

00:25:57.323 --> 00:26:00.569 and I think that that's true of Covid.

NOTE Confidence: 0.8662269

00:26:00.570 --> 00:26:02.916 I think that's true of cancer,

00:26:03.656 --> 00:26:06.232 because one of the issues that we're

NOTE Confidence: 0.8662269

00:26:06.232 --> 00:26:08.406 talking about today is cancer

NOTE Confidence: 0.8662269

00:26:08.406 --> 00:26:11.103 prevention and some of the most important

NOTE Confidence: 0.8662269

00:26:11.103 --> 00:26:13.761 factors for cancer prevention are things

NOTE Confidence: 0.8662269

00:26:13.761 --> 00:26:16.615 that have been long known as perhaps

NOTE Confidence: 0.8662269

00:26:16.615 --> 00:26:19.420 one area where there's not been a

NOTE Confidence: 0.8662269

00:26:19.420 --> 00:26:22.607 ton of really large steps and advances, but

NOTE Confidence: 0.8662269

00:26:23.661 --> 00:26:26.823 things like not smoking things like

NOTE Confidence: 0.8662269

00:26:27.646 --> 00:26:29.278 maintaining a healthy weight,

NOTE Confidence: 0.8662269

00:26:29.280 --> 00:26:30.800 eating a healthy diet

NOTE Confidence: 0.8662269

00:26:30.800 --> 00:26:33. these are kind of the standards of

NOTE Confidence: 0.8662269

00:26:33.600 --> 00:26:35.830 cancer prevention across the board,

NOTE Confidence: 0.8662269

00:26:35.830 --> 00:26:38.278 and again, it's certain

NOTE Confidence: 0.8662269

00:26:38.280 --> 00:26:40.280 messaging to different

NOTE Confidence: 0.8662269

00:26:40.280 --> 00:26:42.280 populations to make sure that

NOTE Confidence: 0.8662269

00:26:42.351 --> 00:26:44.416 they are receiving the message.

NOTE Confidence: 0.8662269

00:26:44.420 --> 00:26:46.460 Make sure that they understand

NOTE Confidence: 0.8662269

00:26:46.460 --> 00:26:48.092 how important it is.

NOTE Confidence: 0.8662269

00:26:48.100 --> 00:26:50.956 It is something that needs to be considered.

00:26:53.002 --> 00:26:55.900 I think your point about

NOTE Confidence: 0.8566167

00:26:55.900 --> 00:26:57.980 systemic racism and the

NOTE Confidence: 0.8566167

00:26:57.980 --> 00:26:59.832 absolutely important tragedies that

NOTE Confidence: 0.8566167

00:26:59.832 --> 00:27:02.610 have happened in the US health

NOTE Confidence: 0.8566167

00:27:02.684 --> 00:27:04.929 care system over centuries really,

NOTE Confidence: 0.8566167

00:27:04.930 --> 00:27:07.774 that has propagated the lack

NOTE Confidence: 0.8566167

00:27:07.774 --> 00:27:10.184 of trust for minority populations

NOTE Confidence: 0.8566167

00:27:10.184 --> 00:27:12.734 in clinical trials is going to

NOTE Confidence: 0.8566167

00:27:12.734 --> 00:27:15.570 be a hard mountain to climb,

NOTE Confidence: 0.8566167

00:27:15.570 --> 00:27:18.818 but I think it is so important,

NOTE Confidence: 0.8566167

00:27:18.820 --> 00:27:21.838 particularly when we think about not

NOTE Confidence: 0.8566167

00:27:21.838 --> 00:27:24.828 only therapeutics and but as you say,

NOTE Confidence: 0.8566167

00:27:24.830 --> 00:27:25.778 about prevention.

NOTE Confidence: 0.8566167

00:27:25.778 --> 00:27:28.148 Whether we're talking about Covid

NOTE Confidence: 0.8566167

00:27:28.148 --> 00:27:30.619 or whether we're talking about

NOTE Confidence: 0.8566167

00:27:30.620 --> 00:27:33.777 cancer and so really thinking about all

NOTE Confidence: 0.8566167

00:27:33.777 --> 00:27:37.606 of the ways that we can prevent cancer,

NOTE Confidence: 0.8566167

00:27:37.610 --> 00:27:39.940 February being Cancer Prevention Month,

NOTE Confidence: 0.8566167

00:27:39.940 --> 00:27:42.978 have we seen any impact in terms

NOTE Confidence: 0.8566167

00:27:42.978 --> 00:27:45.070 of really driving forward

NOTE Confidence: 0.8566167

00:27:45.070 --> 00:27:47.274 some of those behaviors?

NOTE Confidence: 0.8566167

00:27:47.274 --> 00:27:50.029 Some of those primary prevention

NOTE Confidence: 0.8566167

00:27:50.029 --> 00:27:52.810 techniques that all of us know about

NOTE Confidence: 0.8566167

00:27:52.810 --> 00:27:55.778 in terms of cancer prevention.

NOTE Confidence: 0.8566167

00:27:55.780 --> 00:27:58.110 Are we making a dent?

NOTE Confidence: 0.8594165

00:27:59.300 --> 00:28:01.316 I think so.

00:28:03.040 --> 00:28:05.049 There's a long way

NOTE Confidence: 0.8594165

00:28:05.049 --> 00:28:07.580 to go and I think there's a lot more

NOTE Confidence: 0.8594165

00:28:07.580 --> 00:28:09.960 to be done in those

NOTE Confidence: 0.8594165

00:28:09.960 --> 00:28:11.676 primary areas that you mentioned.

NOTE Confidence: 0.8594165

00:28:11.680 --> 00:28:14.558 But for a lot of cancers we do see

NOTE Confidence: 0.8594165

00:28:14.558 --> 00:28:17.158 that the incidence of cancer is going down,

NOTE Confidence: 0.8594165

00:28:17.160 --> 00:28:19.552 not for all of them, but

NOTE Confidence: 0.8594165

00:28:19.552 --> 00:28:21.399 for some of them. Smoking

NOTE Confidence: 0.8594165

00:28:21.399 --> 00:28:23.199 related cancers to some extent

NOTE Confidence: 0.8594165

00:28:23.200 --> 00:28:25.792 it kind of fluctuates a little bit,

NOTE Confidence: 0.8594165

00:28:25.800 --> 00:28:27.235 but for sure we're seeing

NOTE Confidence: 0.8594165

00:28:27.235 --> 00:28:28.096 some improvements there.

00:28:30.500 --> 00:28:32.474 One of the easiest things to do

NOTE Confidence: 0.8594165

00:28:32.474 --> 00:28:34.269 for younger boys and girls is

NOTE Confidence: 0.8594165

00:28:34.269 --> 00:28:36.033 to make sure that they received

NOTE Confidence: 0.8594165

00:28:36.033 --> 00:28:37.884 their HPV vaccinations in

NOTE Confidence: 0.8594165

00:28:37.884 --> 00:28:39.749 the terms of cancer prevention,

NOTE Confidence: 0.8594165

00:28:39.750 --> 00:28:42.165 and certainly since

NOTE Confidence: 0.8594165

00:28:42.165 --> 00:28:44.528 the HPV vaccination has come on the scene,

NOTE Confidence: 0.8594165

00:28:44.530 --> 00:28:46.210 we've certainly seen decreases

NOTE Confidence: 0.8594165

00:28:46.210 --> 00:28:48.310 in HPV related cancers associated

NOTE Confidence: 0.8594165

00:28:48.310 --> 00:28:50.530 with utilization of that vaccine.

NOTE Confidence: 0.8594165

00:28:50.530 --> 00:28:52.778 And then the other area is that

NOTE Confidence: 0.8594165

00:28:52.780 --> 00:28:56.204 we're seeing this kind of

NOTE Confidence: 0.8594165

00:28:56.210 --> 00:28:58.800 increase in the number of cancer survivors,

NOTE Confidence: 0.8594165

00:28:58.800 --> 00:29:01.576 so even folks who are unfortunate to

NOTE Confidence: 0.8594165

00:29:01.576 --> 00:29:03.932 receive a diagnosis, cancer survival

NOTE Confidence: 0.8594165

00:29:03.932 --> 00:29:06.939 for many cancers is going up as well,

NOTE Confidence: 0.8594165

00:29:06.940 --> 00:29:09.460 and I think some of that you

NOTE Confidence: 0.8594165

00:29:09.460 --> 00:29:11.380 know a lot of that,

NOTE Confidence: 0.8594165

00:29:11.380 --> 00:29:13.585 is attributable to these advances

NOTE Confidence: 0.8594165

00:29:13.585 --> 00:29:15.820 in diagnostic or treatment technologies.

NOTE Confidence: 0.8594165

00:29:15.820 --> 00:29:18.040 But to some extent as well

NOTE Confidence: 0.8594165

00:29:18.040 --> 00:29:19.890 people trying to,

NOTE Confidence: 0.8594165

00:29:19.890 --> 00:29:22.110 you know, reduce or quit smoking,

NOTE Confidence: 0.8594165

00:29:22.110 --> 00:29:23.220 eat healthier diets,

NOTE Confidence: 0.8594165

00:29:23.220 --> 00:29:25.070 maintaining a healthy body weight.

NOTE Confidence: 0.8594165

00:29:25.070 --> 00:29:27.050 All of these things are

NOTE Confidence: 0.8594165

00:29:27.050 --> 00:29:28.390 only going to help.

NOTE Confidence: 0.8795682

00:29:29.110 --> 00:29:31.474 Doctor Michaela Dinan is an associate

NOTE Confidence: 0.8795682

00:29:31.474 --> 00:29:33.465 professor of chronic disease Epidemiology

NOTE Confidence: 0.8795682

00:29:33.465 --> 00:29:35.950 at the Yale School of Public Health.

NOTE Confidence: 0.8795682

00:29:35.950 --> 00:29:37.474 If you have questions,

NOTE Confidence: 0.8795682

00:29:37.474 --> 00:29:38.998 the address is canceranswers@yale.edu

NOTE Confidence: 0.8795682

00:29:38.998 --> 00:29:41.102 and past editions of the program

NOTE Confidence: 0.8795682

00:29:41.102 --> 00:29:43.022 are available in audio and written

NOTE Confidence: 0.8795682

00:29:43.086 --> 00:29:44.688 form at yalecancercenter.org.

NOTE Confidence: 0.8795682

00:29:44.690 --> 00:29:47.242 We hope you'll join us next week to

NOTE Confidence: 0.8795682

00:29:47.242 --> 00:29:49.709 learn more about the fight against

NOTE Confidence: 0.8795682

00:29:49.709 --> 00:29:52.728 cancer here on Connecticut Public Radio.