

WEBVTT

00:00:00.000 --> 00:00:02.415 Support for Yale Cancer Answers

NOTE Confidence: 0.925680875778198

00:00:02.415 --> 00:00:04.830 comes from AstraZeneca providing

NOTE Confidence: 0.925680875778198

00:00:04.913 --> 00:00:06.905 important treatment options for

NOTE Confidence: 0.925680875778198

00:00:06.905 --> 00:00:09.893 various types and stages of cancer.

NOTE Confidence: 0.925680875778198

00:00:09.900 --> 00:00:13.728 More information at [astrazeneca-us.com](http://astrazeneca-us.com).

NOTE Confidence: 0.925680875778198

00:00:13.730 --> 00:00:15.608 Welcome to Yale Cancer Answers with

NOTE Confidence: 0.925680875778198

00:00:15.608 --> 00:00:17.668 your host doctor Anees Chagpar.

NOTE Confidence: 0.925680875778198

00:00:17.668 --> 00:00:19.543 Yale Cancer Answers features the

NOTE Confidence: 0.925680875778198

00:00:19.543 --> 00:00:21.807 latest information on cancer care by

NOTE Confidence: 0.925680875778198

00:00:21.807 --> 00:00:23.239 welcoming oncologists and specialists

NOTE Confidence: 0.925680875778198

00:00:23.239 --> 00:00:25.732 who are on the forefront of the

NOTE Confidence: 0.925680875778198

00:00:25.732 --> 00:00:27.850 battle to fight cancer. This week

NOTE Confidence: 0.925680875778198

00:00:27.850 --> 00:00:29.386 it's a conversation about

NOTE Confidence: 0.925680875778198

00:00:29.386 --> 00:00:30.922 cognitive decline after prostate

NOTE Confidence: 0.925680875778198

00:00:30.922 --> 00:00:32.787 cancer with doctor Herta Chao.

NOTE Confidence: 0.925680875778198

00:00:32.790 --> 00:00:34.812 Doctor Chao is the deputy director  
NOTE Confidence: 0.925680875778198

00:00:34.812 --> 00:00:36.589 at the VA Comprehensive Cancer  
NOTE Confidence: 0.925680875778198

00:00:36.589 --> 00:00:38.444 Center and an associate professor  
NOTE Confidence: 0.925680875778198

00:00:38.444 --> 00:00:40.328 of Medicine and medical oncology  
NOTE Confidence: 0.925680875778198

00:00:40.328 --> 00:00:42.320 at the Yale School of Medicine,  
NOTE Confidence: 0.925680875778198

00:00:42.320 --> 00:00:44.840 where doctor Chagpar is a  
NOTE Confidence: 0.925680875778198

00:00:44.840 --> 00:00:47.170 professor of surgical on oncology.  
00:00:47.580 --> 00:00:50.408 I hear you work at the VA.  
NOTE Confidence: 0.924813807010651

00:00:50.410 --> 00:00:53.021 Tell us a little bit about the  
NOTE Confidence: 0.924813807010651

00:00:53.021 --> 00:00:55.134 VA and about cancer services  
NOTE Confidence: 0.924813807010651

00:00:55.134 --> 00:00:58.110 at the VA?  
NOTE Confidence: 0.924813807010651

00:00:58.110 --> 00:01:01.054 I feel very fortunate to work at the West Haven  
VA  
NOTE Confidence: 0.924813807010651

00:01:01.054 --> 00:01:03.599 Cancer Center because it's so closely  
NOTE Confidence: 0.924813807010651

00:01:03.599 --> 00:01:06.209 affiliated with Yale Cancer Center,  
NOTE Confidence: 0.924813807010651

00:01:06.210 --> 00:01:08.576 we basically can take advantage of a  
NOTE Confidence: 0.924813807010651

00:01:08.576 --> 00:01:11.506 lot of the knowledge and expertise and

NOTE Confidence: 0.924813807010651

00:01:11.506 --> 00:01:14.266 resources that are available at your

NOTE Confidence: 0.924813807010651

00:01:14.346 --> 00:01:17.307 Cancer Center as well.

NOTE Confidence: 0.924813807010651

00:01:17.307 --> 00:01:20.061 A particularly important thing for the

NOTE Confidence: 0.924813807010651

00:01:20.061 --> 00:01:23.438 VA is that we're a tertiary center,

NOTE Confidence: 0.924813807010651

00:01:23.438 --> 00:01:26.072 and many resources are available

NOTE Confidence: 0.924813807010651

00:01:26.072 --> 00:01:28.624 that are not necessarily

NOTE Confidence: 0.924813807010651

00:01:28.624 --> 00:01:31.810 available in the private sector.

NOTE Confidence: 0.924813807010651

00:01:31.810 --> 00:01:32.782 For instance,

NOTE Confidence: 0.924813807010651

00:01:32.782 --> 00:01:34.726 if veterans need transportation,

NOTE Confidence: 0.924813807010651

00:01:34.730 --> 00:01:38.139 we can actually ask our social worker

NOTE Confidence: 0.924813807010651

00:01:38.139 --> 00:01:42.150 to help. If a veteran needs additional

NOTE Confidence: 0.924813807010651

00:01:42.150 --> 00:01:43.479 support and therapy,

NOTE Confidence: 0.924813807010651

00:01:43.479 --> 00:01:46.137 we can actually ask the physical

NOTE Confidence: 0.924813807010651

00:01:46.137 --> 00:01:49.050 therapist to meet them in the Cancer Center,

NOTE Confidence: 0.924813807010651

00:01:49.050 --> 00:01:50.674 so it's

NOTE Confidence: 0.924813807010651

00:01:50.674 --> 00:01:52.298 very tailored to veterans.  
NOTE Confidence: 0.930449306964874

00:01:52.710 --> 00:01:55.140 Tell us a little bit about,  
NOTE Confidence: 0.930449306964874

00:01:55.140 --> 00:01:57.975 you know when we think about cancer  
NOTE Confidence: 0.930449306964874

00:01:57.980 --> 00:02:00.346 we kind of think of it ubiquitously  
NOTE Confidence: 0.930449306964874

00:02:00.346 --> 00:02:03.167 but tell us about the prevalence of  
NOTE Confidence: 0.930449306964874

00:02:03.167 --> 00:02:05.759 cancer in the veteran population and  
NOTE Confidence: 0.930449306964874

00:02:05.836 --> 00:02:08.428 whether the the incidence of cancers  
NOTE Confidence: 0.930449306964874

00:02:08.428 --> 00:02:10.926 and particular kinds of cancers are  
NOTE Confidence: 0.930449306964874

00:02:10.926 --> 00:02:13.224 different in the veteran population as  
NOTE Confidence: 0.930449306964874

00:02:13.224 --> 00:02:16.000 opposed to the general population?  
NOTE Confidence: 0.913173913955688

00:02:16.000 --> 00:02:18.940 That's a very very important point.  
00:02:21.390 --> 00:02:24.330 I think we continue to  
NOTE Confidence: 0.913173913955688

00:02:24.330 --> 00:02:26.290 learn. For many decades  
NOTE Confidence: 0.913173913955688

00:02:26.290 --> 00:02:29.404 it was actually debated whether certain  
NOTE Confidence: 0.913173913955688

00:02:29.404 --> 00:02:32.660 cancers are really related to an herbicide,  
NOTE Confidence: 0.913173913955688

00:02:32.660 --> 00:02:34.070 like Agent Orange.  
NOTE Confidence: 0.913173913955688

00:02:34.070 --> 00:02:37.360 We know it was widely used  
NOTE Confidence: 0.913173913955688

00:02:37.457 --> 00:02:41.097 during the Vietnam War and many veterans  
NOTE Confidence: 0.913173913955688

00:02:41.100 --> 00:02:44.094 develop cancers  
NOTE Confidence: 0.913173913955688

00:02:44.094 --> 00:02:46.090 that are unusually aggressive,  
NOTE Confidence: 0.913173913955688

00:02:46.090 --> 00:02:48.590 unusually early in their lifetime,  
NOTE Confidence: 0.913173913955688

00:02:48.590 --> 00:02:52.526 and it took many decades before it was  
NOTE Confidence: 0.913173913955688

00:02:52.526 --> 00:02:56.067 recognized that Agent Orange is a carcinogen.  
NOTE Confidence: 0.913173913955688

00:02:56.070 --> 00:02:58.062 For instance,  
NOTE Confidence: 0.913173913955688

00:02:58.062 --> 00:03:00.552 I think soft tissue sarcoma,  
NOTE Confidence: 0.913173913955688

00:03:00.560 --> 00:03:03.560 which is a connective tissue cancer,  
NOTE Confidence: 0.913173913955688

00:03:03.560 --> 00:03:06.050 occurs early in our lifetime.  
NOTE Confidence: 0.913173913955688

00:03:06.050 --> 00:03:09.452 It was recognized earlier that this is  
NOTE Confidence: 0.913173913955688

00:03:09.452 --> 00:03:12.050 probably related to Agent Orange.  
NOTE Confidence: 0.913173913955688

00:03:12.050 --> 00:03:14.816 Exposure has increased the risks of  
NOTE Confidence: 0.913173913955688

00:03:14.816 --> 00:03:17.799 these veterans to develop these cancers.  
NOTE Confidence: 0.913173913955688

00:03:17.800 --> 00:03:19.712 Prostate cancer, for instance,

NOTE Confidence: 0.913173913955688

00:03:19.712 --> 00:03:22.102 is so common among men and is

NOTE Confidence: 0.913173913955688

00:03:22.110 --> 00:03:25.456 the most frequent cancer among veterans.

NOTE Confidence: 0.913173913955688

00:03:25.460 --> 00:03:29.798 But for the many decades it was actually not

NOTE Confidence: 0.913173913955688

00:03:29.798 --> 00:03:32.646 acknowledged to be Agent Orange related.

NOTE Confidence: 0.913173913955688

00:03:32.650 --> 00:03:36.122 Not until 2008 there was a very

NOTE Confidence: 0.913173913955688

00:03:36.122 --> 00:03:38.985 important study done by Doctor Karen

NOTE Confidence: 0.913173913955688

00:03:38.985 --> 00:03:41.847 Shami at UCLA that actually proved

NOTE Confidence: 0.913173913955688

00:03:41.939 --> 00:03:44.629 that the

NOTE Confidence: 0.913173913955688

00:03:44.630 --> 00:03:47.726 rate of prostate cancer and

NOTE Confidence: 0.913173913955688

00:03:47.726 --> 00:03:50.589 aggressiveness of prostate cancer was much,

NOTE Confidence: 0.913173913955688

00:03:50.590 --> 00:03:53.901 much higher in the veterans that were

NOTE Confidence: 0.913173913955688

00:03:53.901 --> 00:03:56.888 exposed to Agent Orange compared to

NOTE Confidence: 0.913173913955688

00:03:56.888 --> 00:04:00.325 veterans during the same era but not

NOTE Confidence: 0.913173913955688

00:04:00.415 --> 00:04:03.903 exposed to Agent Orange, so we know

NOTE Confidence: 0.913173913955688

00:04:03.903 --> 00:04:06.669 more and more that veterans may be

NOTE Confidence: 0.913173913955688

00:04:06.669 --> 00:04:09.316 at risk due to service related  
NOTE Confidence: 0.913173913955688

00:04:09.316 --> 00:04:12.454 exposures to certain type of cancer,  
NOTE Confidence: 0.913173913955688

00:04:12.460 --> 00:04:13.954 including lung cancer,  
NOTE Confidence: 0.913173913955688

00:04:13.954 --> 00:04:15.478 prostate cancer, leukemia  
NOTE Confidence: 0.913173913955688

00:04:15.478 --> 00:04:17.062 and lymphomas.  
00:04:17.590 --> 00:04:20.712 These days for men and women  
NOTE Confidence: 0.912173449993134

00:04:20.712 --> 00:04:24.386 who are in combat al ot of times  
NOTE Confidence: 0.912173449993134

00:04:24.386 --> 00:04:27.104 we don't think about  
NOTE Confidence: 0.912173449993134

00:04:27.104 --> 00:04:29.524 people using a particular agent  
NOTE Confidence: 0.912173449993134

00:04:29.524 --> 00:04:32.150 like Agent Orange in combat,  
NOTE Confidence: 0.912173449993134

00:04:32.150 --> 00:04:35.657 but more it's artillery,  
NOTE Confidence: 0.912173449993134

00:04:35.660 --> 00:04:38.170 there's more  
NOTE Confidence: 0.912173449993134

00:04:38.170 --> 00:04:40.680 roadside bombs and so on.  
NOTE Confidence: 0.912173449993134

00:04:40.680 --> 00:04:43.620 Are those also associated  
NOTE Confidence: 0.912173449993134

00:04:43.620 --> 00:04:46.699 with a higher risk of cancers?  
NOTE Confidence: 0.881127893924713

00:04:46.710 --> 00:04:52.870 I think we will find out very soon.  
NOTE Confidence: 0.881127893924713

00:04:52.870 --> 00:04:56.062 Unfortunately my colleagues  
NOTE Confidence: 0.881127893924713

00:04:56.062 --> 00:05:00.052 and myself have been  
NOTE Confidence: 0.881127893924713

00:05:00.060 --> 00:05:03.185 unpleasantly surprised about how many  
NOTE Confidence: 0.881127893924713

00:05:03.185 --> 00:05:07.696 aggressive cases of cancer we see in very  
NOTE Confidence: 0.881127893924713

00:05:07.696 --> 00:05:11.170 young veterans like in the 40s and 50s,  
NOTE Confidence: 0.881127893924713

00:05:11.170 --> 00:05:13.810 and a whole variety of  
NOTE Confidence: 0.881127893924713

00:05:13.810 --> 00:05:15.922 different type of cancer,  
NOTE Confidence: 0.881127893924713

00:05:15.930 --> 00:05:20.378 not just one specific cancer and the  
NOTE Confidence: 0.881127893924713

00:05:20.378 --> 00:05:24.015 common thread of the story is really  
NOTE Confidence: 0.881127893924713

00:05:24.015 --> 00:05:27.570 they were exposed to the burn pits,  
NOTE Confidence: 0.881127893924713

00:05:27.570 --> 00:05:30.738 where apparently many things were burned,  
NOTE Confidence: 0.881127893924713

00:05:30.740 --> 00:05:31.790 including  
NOTE Confidence: 0.881127893924713

00:05:31.790 --> 00:05:39.140 what I was told was equipment that  
NOTE Confidence: 0.881127893924713

00:05:39.140 --> 00:05:41.678 they wanted to be destroyed,  
NOTE Confidence: 0.881127893924713

00:05:41.680 --> 00:05:43.800 and so there were many  
NOTE Confidence: 0.881127893924713

00:05:43.800 --> 00:05:45.920 toxic exposures and I fear,

NOTE Confidence: 0.881127893924713  
00:05:45.920 --> 00:05:48.496 and I believe it will be true  
NOTE Confidence: 0.881127893924713  
00:05:48.496 --> 00:05:51.595 that we will see many other risk  
NOTE Confidence: 0.881127893924713  
00:05:51.595 --> 00:05:53.980 factors for different types of  
NOTE Confidence: 0.916848301887512  
00:05:53.980 --> 00:05:56.200 malignancies.  
NOTE Confidence: 0.916848301887512  
00:05:56.200 --> 00:05:59.257 I mean I don't know whether we still  
NOTE Confidence: 0.916848301887512  
00:05:59.257 --> 00:06:01.910 see veterans who were exposed to Hiroshima  
NOTE Confidence: 0.916848301887512  
00:06:01.910 --> 00:06:04.156 and Nagasaki, but radiation  
NOTE Confidence: 0.916848301887512  
00:06:04.156 --> 00:06:07.117 also can expose you to a variety  
NOTE Confidence: 0.916848301887512  
00:06:07.120 --> 00:06:08.840 of malignancies too, right?  
NOTE Confidence: 0.916848301887512  
00:06:08.840 --> 00:06:10.130 Absolutely, in fact  
NOTE Confidence: 0.916848301887512  
00:06:10.130 --> 00:06:13.818 I can talk about this because  
NOTE Confidence: 0.916848301887512  
00:06:13.818 --> 00:06:17.199 one of my veterans really wanted  
NOTE Confidence: 0.916848301887512  
00:06:17.199 --> 00:06:21.365 to raise more awareness and he and  
NOTE Confidence: 0.916848301887512  
00:06:21.365 --> 00:06:24.575 his wife really wanted want to  
NOTE Confidence: 0.916848301887512  
00:06:24.575 --> 00:06:28.320 publicly speak more about it.  
NOTE Confidence: 0.916848301887512

00:06:28.320 --> 00:06:31.530 He was actually exposed,  
NOTE Confidence: 0.916848301887512

00:06:34.210 --> 00:06:36.880 in regular service to radiation in  
NOTE Confidence: 0.916848301887512

00:06:36.880 --> 00:06:39.016 the nuclear powered submarines,  
NOTE Confidence: 0.916848301887512

00:06:39.020 --> 00:06:39.844 and unfortunately,  
NOTE Confidence: 0.916848301887512

00:06:39.844 --> 00:06:41.904 he was in very close proximity  
NOTE Confidence: 0.916848301887512

00:06:41.904 --> 00:06:44.772 to it and unfortunately now deals  
NOTE Confidence: 0.916848301887512

00:06:44.772 --> 00:06:46.848 with a very aggressive cancer.  
NOTE Confidence: 0.916848301887512

00:06:46.850 --> 00:06:48.634 They were fortunately able  
NOTE Confidence: 0.916848301887512

00:06:48.634 --> 00:06:50.418 to control it with chemotherapy,  
NOTE Confidence: 0.916848301887512

00:06:50.420 --> 00:06:53.549 but it does look like he will  
NOTE Confidence: 0.916848301887512

00:06:53.549 --> 00:06:54.890 be on chemotherapy  
NOTE Confidence: 0.916848301887512

00:06:54.890 --> 00:06:57.566 probably for rest of his life.  
NOTE Confidence: 0.916848301887512

00:06:57.570 --> 00:06:59.362 What about other agents?  
NOTE Confidence: 0.916848301887512

00:06:59.362 --> 00:06:59.810 Do we have any idea  
NOTE Confidence: 0.922635674476624

00:06:59.810 --> 00:07:03.051 about the carcinogenic  
NOTE Confidence: 0.922635674476624

00:07:03.051 --> 00:07:05.619 potential of things like tear gas,

NOTE Confidence: 0.922635674476624  
00:07:05.620 --> 00:07:08.296 which is commonly used both  
NOTE Confidence: 0.922635674476624  
00:07:08.300 --> 00:07:11.478 I guess in combat and in  
NOTE Confidence: 0.922635674476624  
00:07:11.478 --> 00:07:13.250 civilian crowd control?  
NOTE Confidence: 0.921124577522278  
00:07:13.250 --> 00:07:15.632 I'm not  
NOTE Confidence: 0.921124577522278  
00:07:15.632 --> 00:07:17.980 an expert in this regard,  
NOTE Confidence: 0.921124577522278  
00:07:17.980 --> 00:07:20.876 so I have to apologize that I can't  
NOTE Confidence: 0.921124577522278  
00:07:20.876 --> 00:07:23.139 answer this question correctly.  
NOTE Confidence: 0.921124577522278  
00:07:23.140 --> 00:07:26.515 But I do think that we have  
NOTE Confidence: 0.921124577522278  
00:07:26.515 --> 00:07:30.444 to be aware about all the herbicides  
NOTE Confidence: 0.921124577522278  
00:07:30.450 --> 00:07:32.565 we are using still commercially and  
NOTE Confidence: 0.921124577522278  
00:07:32.565 --> 00:07:35.547 also in the private sector that I  
NOTE Confidence: 0.921124577522278  
00:07:35.547 --> 00:07:37.522 believe is under recognized  
NOTE Confidence: 0.921124577522278  
00:07:39.910 --> 00:07:42.675 so certainly there are  
NOTE Confidence: 0.921124577522278  
00:07:42.675 --> 00:07:45.500 a whole host of exposures that  
NOTE Confidence: 0.921124577522278  
00:07:45.500 --> 00:07:47.960 are unique to veterans and our  
NOTE Confidence: 0.921124577522278

00:07:47.960 --> 00:07:50.428 military families and we have to

NOTE Confidence: 0.921124577522278

00:07:50.428 --> 00:07:52.672 remember that. And

NOTE Confidence: 0.921124577522278

00:07:52.672 --> 00:07:55.433 cancer is not uncommon

NOTE Confidence: 0.921124577522278

00:07:55.433 --> 00:07:57.373 even in the general public.

NOTE Confidence: 0.921124577522278

00:07:57.380 --> 00:08:00.152 And so when you are seeing patients

NOTE Confidence: 0.921124577522278

00:08:00.152 --> 00:08:02.465 at the VA, you're seeing people

NOTE Confidence: 0.921124577522278

00:08:02.465 --> 00:08:04.715 who may be at increased risk

NOTE Confidence: 0.921124577522278

00:08:04.715 --> 00:08:06.877 because of their military service.

NOTE Confidence: 0.921124577522278

00:08:06.880 --> 00:08:09.310 But you're also seeing people who

NOTE Confidence: 0.921124577522278

00:08:09.310 --> 00:08:11.363 are just diagnosed with cancers

NOTE Confidence: 0.921124577522278

00:08:11.363 --> 00:08:13.848 that they would get as part of

NOTE Confidence: 0.921124577522278

00:08:13.848 --> 00:08:15.988 the general population as well.

00:08:17.076 --> 00:08:20.124 We serve all veterans,

NOTE Confidence: 0.886958599090576

00:08:20.130 --> 00:08:23.700 whether they've been in combat or not

NOTE Confidence: 0.886958599090576

00:08:23.700 --> 00:08:26.862 and if they fulfill the criteria

NOTE Confidence: 0.886958599090576

00:08:26.862 --> 00:08:29.800 to receive care at the VA,

NOTE Confidence: 0.886958599090576

00:08:29.800 --> 00:08:32.770 we will absolutely see all veterans  
NOTE Confidence: 0.886958599090576

00:08:32.770 --> 00:08:35.909 that are eligible for VA health care.  
00:08:37.293 --> 00:08:40.059 We will also see the cancers  
NOTE Confidence: 0.886958599090576

00:08:40.059 --> 00:08:43.272 that are not related to service  
NOTE Confidence: 0.886958599090576

00:08:43.272 --> 00:08:46.610 connection and we will treat  
NOTE Confidence: 0.886958599090576

00:08:46.610 --> 00:08:50.418 these veterans, as much as we can do,  
NOTE Confidence: 0.886958599090576

00:08:50.420 --> 00:08:54.695 and one of the benefits for me to  
NOTE Confidence: 0.886958599090576

00:08:54.700 --> 00:08:57.556 be an oncologist at the VA,  
NOTE Confidence: 0.886958599090576

00:08:57.560 --> 00:09:00.368 is that we have many other people  
NOTE Confidence: 0.886958599090576

00:09:00.368 --> 00:09:02.790 helping me with their care.  
NOTE Confidence: 0.886958599090576

00:09:02.790 --> 00:09:06.500 One of the things that I do not miss is  
NOTE Confidence: 0.886958599090576

00:09:06.600 --> 00:09:10.410 the billing issues and medication issues.  
NOTE Confidence: 0.886958599090576

00:09:10.410 --> 00:09:12.790 I mean, as you know,  
NOTE Confidence: 0.886958599090576

00:09:12.790 --> 00:09:15.676 there so many  
NOTE Confidence: 0.886958599090576

00:09:15.676 --> 00:09:17.119 very very expensive  
NOTE Confidence: 0.886958599090576

00:09:17.120 --> 00:09:18.824 cancer medications, in fact,  
NOTE Confidence: 0.886958599090576

00:09:18.824 --> 00:09:21.825 we see a stream of  
NOTE Confidence: 0.886958599090576

00:09:21.825 --> 00:09:24.009 new patients into the VA because  
NOTE Confidence: 0.886958599090576

00:09:24.009 --> 00:09:26.505 of the very very expensive drug  
NOTE Confidence: 0.886958599090576

00:09:26.505 --> 00:09:29.151 prices and any veteran that finds  
NOTE Confidence: 0.886958599090576

00:09:29.151 --> 00:09:32.130 out that they can probably get  
NOTE Confidence: 0.886958599090576

00:09:32.130 --> 00:09:34.660 these medications for \$9 copay  
NOTE Confidence: 0.886958599090576

00:09:34.756 --> 00:09:37.380 at the VA a month will come to  
NOTE Confidence: 0.886958599090576

00:09:37.380 --> 00:09:39.998 the VA.  
NOTE Confidence: 0.915887892246246

00:09:40.000 --> 00:09:43.294 For those who may or may not know, if you are  
NOTE Confidence: 0.915887892246246

00:09:43.294 --> 00:09:46.244 a veteran, you can get coverage  
NOTE Confidence: 0.915887892246246

00:09:46.244 --> 00:09:48.740 through the VA for your family,  
NOTE Confidence: 0.915887892246246

00:09:48.740 --> 00:09:51.380 your spouse, and your children?  
NOTE Confidence: 0.919187068939209

00:09:51.380 --> 00:09:55.209 That's a very interesting question.  
NOTE Confidence: 0.919187068939209

00:09:55.210 --> 00:09:58.843 I ask the social worker all the  
NOTE Confidence: 0.919187068939209

00:09:58.843 --> 00:10:02.826 time and it turns out that spouses  
NOTE Confidence: 0.919187068939209

00:10:02.826 --> 00:10:05.591 of 100% service connected veterans

NOTE Confidence: 0.919187068939209  
00:10:05.591 --> 00:10:10.019 are eligible to get care at the VA  
NOTE Confidence: 0.919187068939209  
00:10:10.019 --> 00:10:12.849 until the immediate Medicare age.  
NOTE Confidence: 0.919187068939209  
00:10:12.850 --> 00:10:15.060 I believe that the children  
NOTE Confidence: 0.919187068939209  
00:10:15.060 --> 00:10:16.386 are not necessarily,  
NOTE Confidence: 0.919187068939209  
00:10:16.390 --> 00:10:19.274 but I think there might  
NOTE Confidence: 0.919187068939209  
00:10:19.274 --> 00:10:22.026 be mechanisms to take care of  
NOTE Confidence: 0.919187068939209  
00:10:22.026 --> 00:10:23.930 the children of veterans,  
NOTE Confidence: 0.919187068939209  
00:10:23.930 --> 00:10:27.026 but the spouses of 100% service connected  
NOTE Confidence: 0.919187068939209  
00:10:27.026 --> 00:10:30.570 veteran are eligible for care here at the VA.  
NOTE Confidence: 0.919187068939209  
00:10:30.570 --> 00:10:33.228 What does 100% service connection mean?  
NOTE Confidence: 0.919187068939209  
00:10:33.230 --> 00:10:36.038 It means that these veterans have  
NOTE Confidence: 0.919187068939209  
00:10:36.038 --> 00:10:38.808 a condition that disables them and  
NOTE Confidence: 0.919187068939209  
00:10:38.808 --> 00:10:41.650 it originated during the time of  
NOTE Confidence: 0.929405510425568  
00:10:41.650 --> 00:10:42.994 the military service.  
NOTE Confidence: 0.929405510425568  
00:10:42.994 --> 00:10:45.225 And you see  
NOTE Confidence: 0.929405510425568

00:10:45.225 --> 00:10:47.895 patients with all kinds of cancers,  
NOTE Confidence: 0.929405510425568

00:10:47.900 --> 00:10:51.008 and you treat them at the VA.  
NOTE Confidence: 0.929405510425568

00:10:51.010 --> 00:10:53.485 Are there particular things that  
NOTE Confidence: 0.929405510425568

00:10:53.485 --> 00:10:56.441 you're thinking about in terms of  
NOTE Confidence: 0.929405510425568

00:10:56.441 --> 00:10:58.799 their treatment in terms of side  
NOTE Confidence: 0.929405510425568

00:10:58.799 --> 00:11:02.203 effects and so on that may be of  
NOTE Confidence: 0.929405510425568

00:11:02.203 --> 00:11:03.915 particular concern to veterans?  
NOTE Confidence: 0.924570500850677

00:11:04.540 --> 00:11:08.138 I think there's several  
NOTE Confidence: 0.924570500850677

00:11:08.138 --> 00:11:11.647 things that we do have to consider,  
NOTE Confidence: 0.924570500850677

00:11:11.650 --> 00:11:14.698 and that is, for instance, service  
NOTE Confidence: 0.924570500850677

00:11:14.698 --> 00:11:17.238 connected post traumatic stress disorder.  
NOTE Confidence: 0.924570500850677

00:11:17.240 --> 00:11:20.432 We unfortunately take care of a fair  
NOTE Confidence: 0.924570500850677

00:11:20.432 --> 00:11:23.599 number of veterans that suffer from  
NOTE Confidence: 0.924570500850677

00:11:23.599 --> 00:11:25.875 post traumatic stress disorder,  
NOTE Confidence: 0.924570500850677

00:11:25.880 --> 00:11:29.144 and one of the things that  
NOTE Confidence: 0.924570500850677

00:11:29.144 --> 00:11:33.100 we have to be aware of is

NOTE Confidence: 0.924570500850677  
00:11:33.100 --> 00:11:37.108 sometimes when the cancer treatment itself  
NOTE Confidence: 0.924570500850677  
00:11:37.110 --> 00:11:37.850 causes stress,  
NOTE Confidence: 0.924570500850677  
00:11:37.850 --> 00:11:40.810 some of the PTSD  
NOTE Confidence: 0.924570500850677  
00:11:40.889 --> 00:11:43.209 symptoms can  
NOTE Confidence: 0.924570500850677  
00:11:43.209 --> 00:11:46.924 flare up and that is the reason why  
NOTE Confidence: 0.924570500850677  
00:11:46.924 --> 00:11:49.546 we really right from the beginning  
NOTE Confidence: 0.924570500850677  
00:11:49.550 --> 00:11:52.130 even before we start treatment,  
NOTE Confidence: 0.924570500850677  
00:11:52.130 --> 00:11:54.500 we actually frequently have palliative  
NOTE Confidence: 0.924570500850677  
00:11:54.500 --> 00:11:57.269 care and the health psychology team,  
NOTE Confidence: 0.924570500850677  
00:11:57.270 --> 00:11:59.850 in addition to psychiatry, if necessary,  
NOTE Confidence: 0.924570500850677  
00:11:59.850 --> 00:12:01.995 be involved in the  
NOTE Confidence: 0.924570500850677  
00:12:01.995 --> 00:12:04.140 management of the patient.  
NOTE Confidence: 0.924570500850677  
00:12:04.140 --> 00:12:05.888 For instance, when  
NOTE Confidence: 0.924570500850677  
00:12:05.888 --> 00:12:07.199 our veterans  
NOTE Confidence: 0.924570500850677  
00:12:07.200 --> 00:12:10.110 have to undergo complicated cancer surgery  
NOTE Confidence: 0.924570500850677

00:12:10.110 --> 00:12:12.660 there is actually a service for  
NOTE Confidence: 0.924570500850677

00:12:12.660 --> 00:12:15.461 elderly veterans called  
NOTE Confidence: 0.924570500850677

00:12:15.461 --> 00:12:17.513 Champions where the geriatrician  
NOTE Confidence: 0.924570500850677

00:12:17.513 --> 00:12:20.300 and the psychologists are involved  
NOTE Confidence: 0.924570500850677

00:12:20.300 --> 00:12:23.054 before even the surgery and really  
NOTE Confidence: 0.924570500850677

00:12:23.054 --> 00:12:26.210 prepare the patients for the surgery  
NOTE Confidence: 0.924570500850677

00:12:26.210 --> 00:12:28.688 and follows them all along through  
NOTE Confidence: 0.924570500850677

00:12:28.688 --> 00:12:31.939 the hospitalization and after discharge.  
NOTE Confidence: 0.908037960529327

00:12:31.940 --> 00:12:34.435 Yeah, because I can imagine  
NOTE Confidence: 0.908037960529327

00:12:34.435 --> 00:12:37.280 that for any patient cancer is  
NOTE Confidence: 0.908037960529327

00:12:37.280 --> 00:12:40.058 a big diagnosis, it's a scary diagnosis,  
NOTE Confidence: 0.908037960529327

00:12:40.060 --> 00:12:42.646 but for veterans it may be even  
NOTE Confidence: 0.908037960529327

00:12:42.646 --> 00:12:46.901 more so that it kind of adds to the  
NOTE Confidence: 0.908037960529327

00:12:46.901 --> 00:12:49.336 stress that they've already gone  
NOTE Confidence: 0.915897488594055

00:12:49.340 --> 00:12:50.230 through.  
NOTE Confidence: 0.915897488594055

00:12:50.230 --> 00:12:53.790 And that is one of the things where

NOTE Confidence: 0.915897488594055  
00:12:53.872 --> 00:12:56.297 we are incredibly grateful for at  
NOTE Confidence: 0.915897488594055  
00:12:56.300 --> 00:12:58.345 the VA in Connecticut, we actually  
NOTE Confidence: 0.915897488594055  
00:12:58.345 --> 00:13:00.924 over the years we have developed  
NOTE Confidence: 0.915897488594055  
00:13:00.924 --> 00:13:03.224 a cancer care coordination  
NOTE Confidence: 0.915897488594055  
00:13:03.224 --> 00:13:05.741 system where the cancer  
NOTE Confidence: 0.915897488594055  
00:13:05.741 --> 00:13:07.547 care coordinator actually  
NOTE Confidence: 0.915897488594055  
00:13:07.550 --> 00:13:09.735 tracks patients that may  
NOTE Confidence: 0.915897488594055  
00:13:09.735 --> 00:13:11.483 develop cancer,  
NOTE Confidence: 0.915897488594055  
00:13:11.490 --> 00:13:14.206 but it's still in the work up  
NOTE Confidence: 0.915897488594055  
00:13:14.206 --> 00:13:16.894 and the primary care physician or  
NOTE Confidence: 0.915897488594055  
00:13:16.894 --> 00:13:19.768 any provider can council the cancer  
NOTE Confidence: 0.915897488594055  
00:13:19.768 --> 00:13:22.478 care coordination team to try to  
NOTE Confidence: 0.915897488594055  
00:13:22.478 --> 00:13:25.068 expedite the work up and navigate  
NOTE Confidence: 0.915897488594055  
00:13:25.068 --> 00:13:27.258 for the patients  
NOTE Confidence: 0.915897488594055  
00:13:27.258 --> 00:13:29.010 going through the treatment.  
NOTE Confidence: 0.915897488594055

00:13:29.010 --> 00:13:30.758 Yeah, that's so important.  
NOTE Confidence: 0.910564303398132

00:13:30.760 --> 00:13:33.798 We're going to talk a lot more  
NOTE Confidence: 0.910564303398132

00:13:33.798 --> 00:13:36.053 about cancer treatment and the  
NOTE Confidence: 0.910564303398132

00:13:36.053 --> 00:13:38.218 side effects in our veterans  
NOTE Confidence: 0.910564303398132

00:13:38.220 --> 00:13:39.528 right after we take a short  
NOTE Confidence: 0.910564303398132

00:13:39.528 --> 00:13:40.780 break for a medical minute.  
NOTE Confidence: 0.934238910675049

00:13:41.340 --> 00:13:44.065 Support for Yale Cancer Answers  
NOTE Confidence: 0.934238910675049

00:13:44.065 --> 00:13:46.790 comes from AstraZeneca, dedicated  
NOTE Confidence: 0.934238910675049

00:13:46.882 --> 00:13:50.238 to providing innovative treatment  
NOTE Confidence: 0.934238910675049

00:13:50.238 --> 00:13:54.433 options for people living with  
NOTE Confidence: 0.934238910675049

00:13:54.433 --> 00:13:55.272 cancer. Learn more@astrazeneca-us.com.  
NOTE Confidence: 0.934238910675049

00:13:55.280 --> 00:13:57.380 This is a medical minute  
NOTE Confidence: 0.934238910675049

00:13:57.380 --> 00:13:58.640 about smoking cessation.  
NOTE Confidence: 0.934238910675049

00:13:58.640 --> 00:14:00.740 There are many obstacles to  
NOTE Confidence: 0.934238910675049

00:14:00.740 --> 00:14:02.420 face when quitting smoking.  
NOTE Confidence: 0.934238910675049

00:14:02.420 --> 00:14:05.360 As smoking involves the potent drug nicotine.

NOTE Confidence: 0.934238910675049

00:14:05.360 --> 00:14:08.300 But it's a very important lifestyle change,

NOTE Confidence: 0.934238910675049

00:14:08.300 --> 00:14:09.560 especially for patients

NOTE Confidence: 0.934238910675049

00:14:09.560 --> 00:14:10.820 undergoing cancer treatment.

NOTE Confidence: 0.934238910675049

00:14:10.820 --> 00:14:13.082 Quitting smoking has been shown to

NOTE Confidence: 0.934238910675049

00:14:13.082 --> 00:14:15.131 positively impact response to treatments,

NOTE Confidence: 0.934238910675049

00:14:15.131 --> 00:14:17.516 decrease the likelihood that patients

NOTE Confidence: 0.934238910675049

00:14:17.516 --> 00:14:19.424 will develop second malignancies

NOTE Confidence: 0.934238910675049

00:14:19.491 --> 00:14:21.316 and increase rates of survival.

NOTE Confidence: 0.934238910675049

00:14:21.320 --> 00:14:22.956 Tobacco treatment programs are

NOTE Confidence: 0.934238910675049

00:14:22.956 --> 00:14:25.001 currently being offered at federally

NOTE Confidence: 0.934238910675049

00:14:25.001 --> 00:14:26.988 designated comprehensive cancer centers

NOTE Confidence: 0.934238910675049

00:14:26.990 --> 00:14:28.690 and operate on the principles

NOTE Confidence: 0.934238910675049

00:14:28.690 --> 00:14:31.048 of the US Public Health Service

NOTE Confidence: 0.934238910675049

00:14:31.048 --> 00:14:32.827 clinical practice guidelines.

NOTE Confidence: 0.934238910675049

00:14:32.830 --> 00:14:34.930 All treatment components are evidence

NOTE Confidence: 0.934238910675049

00:14:34.930 --> 00:14:37.480 based and therefore all patients are  
NOTE Confidence: 0.934238910675049

00:14:37.480 --> 00:14:39.814 treated with FDA approved first line  
NOTE Confidence: 0.934238910675049

00:14:39.814 --> 00:14:41.915 medications for smoking cessation as  
NOTE Confidence: 0.934238910675049

00:14:41.915 --> 00:14:44.085 well as smoking cessation counseling  
NOTE Confidence: 0.934238910675049

00:14:44.090 --> 00:14:46.586 that stresses appropriate coping skills.  
NOTE Confidence: 0.934238910675049

00:14:46.590 --> 00:14:48.735 More information is available at  
NOTE Confidence: 0.934238910675049

00:14:48.735 --> 00:14:50.022 yalecancercenter.org. You're listening  
NOTE Confidence: 0.934238910675049

00:14:50.022 --> 00:14:51.589 to Connecticut public radio.  
NOTE Confidence: 0.916288673877716

00:14:52.730 --> 00:14:55.118 Welcome back to Yale Cancer Answers.  
NOTE Confidence: 0.916288673877716

00:14:55.120 --> 00:14:57.436 This is doctor Anees Chagpar  
NOTE Confidence: 0.916288673877716

00:14:57.436 --> 00:14:59.872 and I'm joined tonight by  
NOTE Confidence: 0.916288673877716

00:14:59.872 --> 00:15:02.278 my guest doctor Herta Chao.  
NOTE Confidence: 0.916288673877716

00:15:02.280 --> 00:15:04.024 We're talking about cancer,  
NOTE Confidence: 0.916288673877716

00:15:04.024 --> 00:15:05.768 particularly in veterans and  
NOTE Confidence: 0.916288673877716

00:15:05.768 --> 00:15:07.847 right before the break you  
NOTE Confidence: 0.916288673877716

00:15:07.850 --> 00:15:09.840 were telling me about

NOTE Confidence: 0.916288673877716  
00:15:09.840 --> 00:15:11.830 the really fabulous  
NOTE Confidence: 0.916288673877716  
00:15:11.830 --> 00:15:13.820 services that the VA offers  
NOTE Confidence: 0.916288673877716  
00:15:13.820 --> 00:15:16.268 veterans who are diagnosed with cancer.  
NOTE Confidence: 0.916288673877716  
00:15:16.270 --> 00:15:18.202 It is really a comprehensive approach  
NOTE Confidence: 0.916288673877716  
00:15:18.202 --> 00:15:20.134 a multidisciplinary approach with  
NOTE Confidence: 0.916288673877716  
00:15:20.134 --> 00:15:22.621 social work, with geriatricians, with  
NOTE Confidence: 0.916288673877716  
00:15:22.621 --> 00:15:24.553 psychologists and psychiatrists to  
NOTE Confidence: 0.916288673877716  
00:15:24.553 --> 00:15:26.931 really provide the best treatment  
NOTE Confidence: 0.916288673877716  
00:15:26.931 --> 00:15:28.647 to veterans facing cancer.  
NOTE Confidence: 0.916288673877716  
00:15:28.650 --> 00:15:31.440 Because many of these veterans may  
NOTE Confidence: 0.916288673877716  
00:15:31.440 --> 00:15:34.346 face an increased risk of cancer  
NOTE Confidence: 0.916288673877716  
00:15:34.346 --> 00:15:36.736 due to military based exposure.  
NOTE Confidence: 0.916288673877716  
00:15:36.740 --> 00:15:40.284 The other thing that I think a lot  
NOTE Confidence: 0.916288673877716  
00:15:40.284 --> 00:15:43.697 of people may not know about the VA  
NOTE Confidence: 0.916288673877716  
00:15:43.697 --> 00:15:47.230 is that the VA actually supports  
NOTE Confidence: 0.916288673877716

00:15:47.230 --> 00:15:51.433 a lot of research in the area of cancer.  
NOTE Confidence: 0.916288673877716

00:15:51.440 --> 00:15:55.643 Can you talk a little bit about the DoD,  
NOTE Confidence: 0.916288673877716

00:15:55.650 --> 00:15:57.578 the Department of Defense,  
NOTE Confidence: 0.916288673877716

00:15:57.578 --> 00:16:00.800 and the support that it provides for  
NOTE Confidence: 0.929175555706024

00:16:00.800 --> 00:16:03.140 research into cancer?  
NOTE Confidence: 0.929175555706024

00:16:03.140 --> 00:16:06.129 Yes, they had several mechanisms at the  
NOTE Confidence: 0.929175555706024

00:16:06.129 --> 00:16:09.687 VA to apply for funding for research  
NOTE Confidence: 0.929175555706024

00:16:09.690 --> 00:16:10.626 in veterans,  
NOTE Confidence: 0.929175555706024

00:16:10.626 --> 00:16:12.498 including veterans with cancer.  
NOTE Confidence: 0.929175555706024

00:16:12.500 --> 00:16:15.461 One is the DoD Department of Defense  
NOTE Confidence: 0.929175555706024

00:16:15.461 --> 00:16:17.680 has several grant mechanisms  
NOTE Confidence: 0.929175555706024

00:16:17.680 --> 00:16:19.888 in many different cancers,  
NOTE Confidence: 0.929175555706024

00:16:19.888 --> 00:16:21.544 including prostate cancer,  
NOTE Confidence: 0.929175555706024

00:16:21.550 --> 00:16:23.706 lung cancer, breast cancer,  
NOTE Confidence: 0.929175555706024

00:16:23.706 --> 00:16:25.323 there's another mechanism  
NOTE Confidence: 0.929175555706024

00:16:25.323 --> 00:16:27.630 that's called VA Merit

NOTE Confidence: 0.929175555706024  
00:16:27.630 --> 00:16:30.720 which is internally  
NOTE Confidence: 0.929175555706024  
00:16:30.720 --> 00:16:34.068 within the VA you can apply  
NOTE Confidence: 0.929175555706024  
00:16:34.068 --> 00:16:37.038 for funding to conduct research,  
NOTE Confidence: 0.929175555706024  
00:16:37.040 --> 00:16:39.248 an obviously there are others  
NOTE Confidence: 0.929175555706024  
00:16:39.248 --> 00:16:40.904 like the National Institutes of Health  
NOTE Confidence: 0.929175555706024  
00:16:43.190 --> 00:16:44.900 sponsored grants that  
NOTE Confidence: 0.929175555706024  
00:16:44.900 --> 00:16:47.215 physicians and researchers at the  
NOTE Confidence: 0.929175555706024  
00:16:47.215 --> 00:16:50.827 VA can apply to so I certainly  
NOTE Confidence: 0.929175555706024  
00:16:50.827 --> 00:16:53.837 benefited from these grant mechanisms.  
NOTE Confidence: 0.929175555706024  
00:16:53.840 --> 00:16:56.996 One of my research interests,  
NOTE Confidence: 0.929175555706024  
00:16:57.000 --> 00:16:59.220 in addition to conducting clinical  
NOTE Confidence: 0.929175555706024  
00:16:59.220 --> 00:17:02.822 trials at the VA and making clinical  
NOTE Confidence: 0.929175555706024  
00:17:02.822 --> 00:17:05.410 trials accessible for veterans,  
NOTE Confidence: 0.929175555706024  
00:17:05.410 --> 00:17:08.546 is to look at the potential cognitive  
NOTE Confidence: 0.929175555706024  
00:17:08.546 --> 00:17:11.851 side effects and toxicity of prostate  
NOTE Confidence: 0.929175555706024

00:17:11.851 --> 00:17:14.966 cancer treatment with hormonal therapy.

NOTE Confidence: 0.929175555706024

00:17:14.970 --> 00:17:17.715 And this actually was not

NOTE Confidence: 0.929175555706024

00:17:17.715 --> 00:17:20.460 something that I thought about,

NOTE Confidence: 0.929175555706024

00:17:20.460 --> 00:17:24.292 this was prompted by one of my patients

NOTE Confidence: 0.929175555706024

00:17:24.292 --> 00:17:28.697 who is a decorated Vietnam War veteran,

NOTE Confidence: 0.929175555706024

00:17:28.700 --> 00:17:31.485 and he developed aggressive prostate

NOTE Confidence: 0.929175555706024

00:17:31.485 --> 00:17:34.730 cancer at a fairly young age.

NOTE Confidence: 0.929175555706024

00:17:34.730 --> 00:17:38.090 He was just in his early 60s when

NOTE Confidence: 0.929175555706024

00:17:38.090 --> 00:17:41.767 he was diagnosed with metastatic

NOTE Confidence: 0.929175555706024

00:17:41.767 --> 00:17:45.177 gleason 8 prostate cancer and

NOTE Confidence: 0.929175555706024

00:17:45.180 --> 00:17:47.478 he was diagnosed in the private

NOTE Confidence: 0.929175555706024

00:17:47.478 --> 00:17:50.168 sector and then found out that it

NOTE Confidence: 0.929175555706024

00:17:50.168 --> 00:17:52.334 was eligible for the VA benefits.

NOTE Confidence: 0.929175555706024

00:17:52.340 --> 00:17:55.343 He came to the VA and participated

NOTE Confidence: 0.929175555706024

00:17:55.343 --> 00:17:56.630 in several studies.

NOTE Confidence: 0.929175555706024

00:17:56.630 --> 00:17:57.085 Finally,

NOTE Confidence: 0.929175555706024  
00:17:57.085 --> 00:17:59.360 after three years taking care  
NOTE Confidence: 0.929175555706024  
00:17:59.360 --> 00:18:02.040 of him and his prostate  
NOTE Confidence: 0.929175555706024  
00:18:02.040 --> 00:18:04.032 cancer it was beautiful controlled.  
NOTE Confidence: 0.929175555706024  
00:18:04.032 --> 00:18:07.509 He finally told me,  
NOTE Confidence: 0.929175555706024  
00:18:07.509 --> 00:18:09.927 I don't want to be ungrateful,  
NOTE Confidence: 0.929175555706024  
00:18:09.930 --> 00:18:12.906 but I think these hormone shots  
NOTE Confidence: 0.929175555706024  
00:18:12.906 --> 00:18:14.890 are frying my brain.  
NOTE Confidence: 0.929175555706024  
00:18:14.890 --> 00:18:18.022 And I asked him, what do you mean?  
NOTE Confidence: 0.929175555706024  
00:18:18.030 --> 00:18:19.780 And he said well,  
NOTE Confidence: 0.929175555706024  
00:18:19.780 --> 00:18:21.592 you know I've been busy all  
NOTE Confidence: 0.929175555706024  
00:18:21.592 --> 00:18:23.620 my life I can multitask,  
NOTE Confidence: 0.929175555706024  
00:18:23.620 --> 00:18:25.708 I can do so many things.  
NOTE Confidence: 0.929175555706024  
00:18:25.710 --> 00:18:28.146 But since I started the hormone shot,  
NOTE Confidence: 0.929175555706024  
00:18:28.150 --> 00:18:31.129 I have to write down the  
NOTE Confidence: 0.929175555706024  
00:18:31.129 --> 00:18:34.775 10 things I want to do within the next hour.  
NOTE Confidence: 0.929175555706024

00:18:34.780 --> 00:18:35.980 And that's not me.  
NOTE Confidence: 0.929175555706024

00:18:35.980 --> 00:18:38.256 I usually can think of multiple  
NOTE Confidence: 0.929175555706024

00:18:38.256 --> 00:18:41.063 things and I can get everything done,  
NOTE Confidence: 0.929175555706024

00:18:41.070 --> 00:18:43.558 but now I feel like I have to  
NOTE Confidence: 0.929175555706024

00:18:43.558 --> 00:18:45.658 write down and remind myself  
NOTE Confidence: 0.929175555706024

00:18:45.660 --> 00:18:48.170 what I want to do.  
NOTE Confidence: 0.929175555706024

00:18:48.170 --> 00:18:50.178 So then I thought,  
NOTE Confidence: 0.929175555706024

00:18:50.178 --> 00:18:51.658 oh, that's easy.  
NOTE Confidence: 0.929175555706024

00:18:51.658 --> 00:18:55.081 I'll refer you for  
NOTE Confidence: 0.929175555706024

00:18:55.081 --> 00:18:57.689 neurocognitive testing and it turns  
NOTE Confidence: 0.929175555706024

00:18:57.689 --> 00:19:00.219 out that he scored beautifully.  
NOTE Confidence: 0.929175555706024

00:19:00.220 --> 00:19:03.342 There was no deficit that we could  
NOTE Confidence: 0.929175555706024

00:19:03.342 --> 00:19:06.740 find on regular neurocognitive testing.  
NOTE Confidence: 0.929175555706024

00:19:06.740 --> 00:19:09.752 And then I started looking into  
NOTE Confidence: 0.929175555706024

00:19:09.752 --> 00:19:13.320 it and it's  
NOTE Confidence: 0.929175555706024

00:19:13.320 --> 00:19:15.920 still not well understood

NOTE Confidence: 0.929175555706024  
00:19:15.920 --> 00:19:18.740 what hormone therapy for prostate  
NOTE Confidence: 0.929175555706024  
00:19:18.740 --> 00:19:22.720 cancer can do the to the brain.  
NOTE Confidence: 0.929175555706024  
00:19:22.720 --> 00:19:26.122 I think that the breast cancer  
NOTE Confidence: 0.929175555706024  
00:19:26.122 --> 00:19:28.390 experts are way ahead.  
NOTE Confidence: 0.929175555706024  
00:19:28.390 --> 00:19:31.984 I mean the recognition that  
NOTE Confidence: 0.929175555706024  
00:19:31.984 --> 00:19:34.380 chemotherapy or hormonal therapy  
NOTE Confidence: 0.929175555706024  
00:19:34.483 --> 00:19:37.603 for breast cancer has been for  
NOTE Confidence: 0.929175555706024  
00:19:37.603 --> 00:19:39.163 many years already  
NOTE Confidence: 0.929175555706024  
00:19:39.170 --> 00:19:41.454 suspected and many  
NOTE Confidence: 0.929175555706024  
00:19:41.454 --> 00:19:43.738 studies actually support  
NOTE Confidence: 0.929175555706024  
00:19:43.740 --> 00:19:47.125 the suspicion that chemotherapy and  
NOTE Confidence: 0.929175555706024  
00:19:47.125 --> 00:19:50.510 hormonal therapy for breast cancer  
NOTE Confidence: 0.929175555706024  
00:19:50.611 --> 00:19:54.888 can cause chemo fog, or chemo brain.  
NOTE Confidence: 0.929175555706024  
00:19:54.888 --> 00:19:58.980 It's not as well understood in prostate  
NOTE Confidence: 0.929175555706024  
00:19:59.107 --> 00:20:03.174 cancer so around 2009  
NOTE Confidence: 0.929175555706024

00:20:03.180 --> 00:20:07.140 I started looking into that.  
NOTE Confidence: 0.929175555706024

00:20:07.140 --> 00:20:09.085 And the interesting part is  
NOTE Confidence: 0.929175555706024

00:20:09.085 --> 00:20:11.030 that it's not very easy  
NOTE Confidence: 0.934914469718933

00:20:11.109 --> 00:20:14.581 to characterize these impact of hormone shots  
NOTE Confidence: 0.934914469718933

00:20:14.581 --> 00:20:17.747 for prostate cancer, effects on the brain.  
NOTE Confidence: 0.934914469718933

00:20:17.750 --> 00:20:19.960 If you do regular testing,  
NOTE Confidence: 0.934914469718933

00:20:19.960 --> 00:20:21.358 neurocognitive testing,  
NOTE Confidence: 0.934914469718933

00:20:21.358 --> 00:20:24.154 whether it's a paper and pencil or  
NOTE Confidence: 0.934914469718933

00:20:24.154 --> 00:20:26.150 whether it's on a computer,  
NOTE Confidence: 0.934914469718933

00:20:26.150 --> 00:20:29.406 we have to be aware that there's a  
NOTE Confidence: 0.934914469718933

00:20:29.406 --> 00:20:31.890 certain amount of practice effect.  
NOTE Confidence: 0.934914469718933

00:20:31.890 --> 00:20:35.426 So if you do it every three months,  
NOTE Confidence: 0.934914469718933

00:20:35.430 --> 00:20:38.559 if you do it every six months,  
NOTE Confidence: 0.934914469718933

00:20:38.560 --> 00:20:41.780 you know what to expect to do in the test,  
NOTE Confidence: 0.934914469718933

00:20:41.780 --> 00:20:45.038 so your test score may actually hold hold up  
NOTE Confidence: 0.934914469718933

00:20:45.038 --> 00:20:47.895 despite the fact there might be a deficit.

NOTE Confidence: 0.934914469718933  
00:20:47.900 --> 00:20:53.465 And that is probably true for many,  
NOTE Confidence: 0.934914469718933  
00:20:53.470 --> 00:20:54.734 many patients.  
NOTE Confidence: 0.934914469718933  
00:20:54.734 --> 00:20:59.158 That is what prompted me to think  
NOTE Confidence: 0.934914469718933  
00:20:59.158 --> 00:21:03.761 about what do other people do to study  
NOTE Confidence: 0.934914469718933  
00:21:03.761 --> 00:21:08.457 effects of anything in the brain,  
NOTE Confidence: 0.934914469718933  
00:21:08.460 --> 00:21:10.203 whether it's depression,  
NOTE Confidence: 0.934914469718933  
00:21:10.203 --> 00:21:11.946 whether it's dementia,  
NOTE Confidence: 0.934914469718933  
00:21:11.950 --> 00:21:14.282 whether it's psychiatric illnesses.  
NOTE Confidence: 0.934914469718933  
00:21:14.282 --> 00:21:17.780 So that's the reason why I approached  
NOTE Confidence: 0.934914469718933  
00:21:17.780 --> 00:21:20.264 my colleagues at the Yale Medical School  
NOTE Confidence: 0.934914469718933  
00:21:20.264 --> 00:21:22.784 in psychiatry that are involved in  
NOTE Confidence: 0.934914469718933  
00:21:22.784 --> 00:21:25.148 functional brain imaging to see whether  
NOTE Confidence: 0.934914469718933  
00:21:25.148 --> 00:21:27.788 or not hormone therapy can affect  
NOTE Confidence: 0.934914469718933  
00:21:27.788 --> 00:21:30.013 functional brain imaging.  
NOTE Confidence: 0.934914469718933  
00:21:30.020 --> 00:21:31.286 Just to clarify,  
NOTE Confidence: 0.934914469718933

00:21:31.286 --> 00:21:32.130 what are  
NOTE Confidence: 0.931411921977997

00:21:32.130 --> 00:21:34.240 these hormone shots that you're  
NOTE Confidence: 0.931411921977997

00:21:34.240 --> 00:21:35.928 giving for prostate cancer?  
NOTE Confidence: 0.931411921977997

00:21:35.930 --> 00:21:37.502 What exactly is that?  
NOTE Confidence: 0.931411921977997

00:21:37.502 --> 00:21:39.467 Because when we talk about  
NOTE Confidence: 0.931411921977997

00:21:39.467 --> 00:21:41.288 hormonal therapy or endocrine  
NOTE Confidence: 0.931411921977997

00:21:41.288 --> 00:21:43.100 therapy in breast cancer,  
NOTE Confidence: 0.931411921977997

00:21:43.100 --> 00:21:44.696 that's often a pill.  
NOTE Confidence: 0.931411921977997

00:21:44.696 --> 00:21:47.740 Is it the same kind of thing?  
NOTE Confidence: 0.907076001167297

00:21:47.880 --> 00:21:52.712 It's not exactly the same because we know  
NOTE Confidence: 0.907076001167297

00:21:52.712 --> 00:21:58.181 that if we just use a pill form like  
NOTE Confidence: 0.907076001167297

00:21:58.181 --> 00:22:02.954 something called by Bicalutamide which is a  
NOTE Confidence: 0.907076001167297

00:22:02.954 --> 00:22:04.838 testosterone receptor blocker,  
NOTE Confidence: 0.907076001167297

00:22:04.840 --> 00:22:08.963 it usually is not sufficient to suppress  
NOTE Confidence: 0.907076001167297

00:22:08.963 --> 00:22:13.627 the effects on the prostate cancer cells.  
NOTE Confidence: 0.907076001167297

00:22:13.630 --> 00:22:18.054 So usually men with both prostate cancer

NOTE Confidence: 0.907076001167297  
00:22:18.060 --> 00:22:21.846 need to get something called Leuprolide,  
NOTE Confidence: 0.907076001167297  
00:22:21.850 --> 00:22:25.526 which is, I'm going to use  
NOTE Confidence: 0.907076001167297  
00:22:25.526 --> 00:22:30.260 the technical term LHRH  
NOTE Confidence: 0.907076001167297  
00:22:30.381 --> 00:22:36.191 agonist, that can shut down the testosterone  
NOTE Confidence: 0.907076001167297  
00:22:36.191 --> 00:22:39.831 production in a patients body  
NOTE Confidence: 0.907076001167297  
00:22:39.831 --> 00:22:43.943 and we use these shots to cause the  
NOTE Confidence: 0.907076001167297  
00:22:43.950 --> 00:22:46.988 testicles and also the remainder  
NOTE Confidence: 0.907076001167297  
00:22:46.988 --> 00:22:50.387 of the body to turn off testosterone  
NOTE Confidence: 0.932894647121429  
00:22:50.390 --> 00:22:53.150 production.  
NOTE Confidence: 0.932894647121429  
00:22:53.150 --> 00:22:56.732 So the key point being that the pills  
NOTE Confidence: 0.932894647121429  
00:22:56.732 --> 00:23:00.081 that many breast cancer patients take for  
NOTE Confidence: 0.932894647121429  
00:23:00.081 --> 00:23:04.029 five or ten years is different than these  
NOTE Confidence: 0.932894647121429  
00:23:04.029 --> 00:23:07.410 shots that men get for prostate cancer,  
NOTE Confidence: 0.932894647121429  
00:23:07.410 --> 00:23:09.250 especially advanced prostate cancer.  
NOTE Confidence: 0.932894647121429  
00:23:09.250 --> 00:23:11.550 They work through different mechanisms.  
NOTE Confidence: 0.932894647121429

00:23:11.550 --> 00:23:14.840 They have different targets as it were.

NOTE Confidence: 0.932894647121429

00:23:14.840 --> 00:23:18.224 And so the side effects are pretty different,

NOTE Confidence: 0.932894647121429

00:23:18.230 --> 00:23:21.261 so many women, while it's true that

NOTE Confidence: 0.932894647121429

00:23:21.261 --> 00:23:23.045 with chemotherapy they certainly

NOTE Confidence: 0.932894647121429

00:23:23.045 --> 00:23:25.859 can get chemo brain or chemo fog,

NOTE Confidence: 0.932894647121429

00:23:25.860 --> 00:23:28.404 it's a little less common for

NOTE Confidence: 0.932894647121429

00:23:28.404 --> 00:23:30.100 women taking endocrine therapy,

NOTE Confidence: 0.932894647121429

00:23:30.100 --> 00:23:32.220 something like tamoxifen or some

NOTE Confidence: 0.932894647121429

00:23:32.220 --> 00:23:34.340 of the aromatase inhibitors.

NOTE Confidence: 0.932894647121429

00:23:34.340 --> 00:23:37.220 So how common is it that people can

NOTE Confidence: 0.932894647121429

00:23:37.220 --> 00:23:40.736 get this chemo brain or chemo fog

NOTE Confidence: 0.932894647121429

00:23:40.736 --> 00:23:43.514 or this cognitive decline when taking

NOTE Confidence: 0.932894647121429

00:23:43.514 --> 00:23:46.636 an LHRH agonist for prostate cancer?

NOTE Confidence: 0.922586023807526

00:23:46.650 --> 00:23:49.930 I think that's a very hot topic right

NOTE Confidence: 0.922586023807526

00:23:49.930 --> 00:23:53.179 now in prostate cancer research.

NOTE Confidence: 0.922586023807526

00:23:53.180 --> 00:23:56.186 I think for the longest time,

NOTE Confidence: 0.922586023807526  
00:23:56.190 --> 00:23:59.822 and I would say like  
NOTE Confidence: 0.922586023807526  
00:23:59.822 --> 00:24:04.217 10 years ago I was equally guilty.  
NOTE Confidence: 0.922586023807526  
00:24:04.220 --> 00:24:06.720 We recognized the potential effect  
NOTE Confidence: 0.922586023807526  
00:24:06.720 --> 00:24:10.302 on the brain and we really just  
NOTE Confidence: 0.922586023807526  
00:24:10.302 --> 00:24:13.760 focus on like how to control cancer.  
NOTE Confidence: 0.922586023807526  
00:24:13.760 --> 00:24:15.404 Because as Oncologists,  
NOTE Confidence: 0.922586023807526  
00:24:15.404 --> 00:24:18.144 we want to control cancer.  
NOTE Confidence: 0.922586023807526  
00:24:18.150 --> 00:24:20.740 Now I think we have to recognize  
NOTE Confidence: 0.922586023807526  
00:24:20.740 --> 00:24:23.539 there so many different treatments,  
NOTE Confidence: 0.922586023807526  
00:24:23.540 --> 00:24:25.332 and that's the exciting part about  
NOTE Confidence: 0.922586023807526  
00:24:25.332 --> 00:24:27.124 being a cancer doctor nowadays.  
NOTE Confidence: 0.922586023807526  
00:24:27.130 --> 00:24:29.450 There's so many different treatments  
NOTE Confidence: 0.922586023807526  
00:24:29.450 --> 00:24:32.688 and you can treat cancer so many  
NOTE Confidence: 0.922586023807526  
00:24:32.688 --> 00:24:34.778 different ways that I think  
NOTE Confidence: 0.922586023807526  
00:24:34.778 --> 00:24:37.008 it's actually very important to  
NOTE Confidence: 0.922586023807526

00:24:37.008 --> 00:24:39.253 know what each treatment could  
NOTE Confidence: 0.922586023807526

00:24:39.253 --> 00:24:41.962 cause in terms of side effects,  
NOTE Confidence: 0.922586023807526

00:24:41.962 --> 00:24:44.232 whether it's inside the body  
NOTE Confidence: 0.922586023807526

00:24:44.232 --> 00:24:46.438 or whether it's inside the  
NOTE Confidence: 0.925159593423208

00:24:46.440 --> 00:24:49.717 brain.  
NOTE Confidence: 0.925159593423208

00:24:49.717 --> 00:24:52.699 And what did you find with the  
NOTE Confidence: 0.925159593423208

00:24:52.699 --> 00:24:55.010 functional imaging study that you  
NOTE Confidence: 0.906567990779877

00:24:55.010 --> 00:24:56.938 did?  
NOTE Confidence: 0.906567990779877

00:24:56.938 --> 00:24:59.348 It's still a very active,  
NOTE Confidence: 0.906567990779877

00:24:59.350 --> 00:25:00.577 ongoing study.  
NOTE Confidence: 0.906567990779877

00:25:00.577 --> 00:25:03.991 We're trying to right now look at the  
NOTE Confidence: 0.906567990779877

00:25:03.991 --> 00:25:06.316 effect of lowering the testosterone  
NOTE Confidence: 0.906567990779877

00:25:06.316 --> 00:25:09.950 level what we call androgen deprivation,  
NOTE Confidence: 0.906567990779877

00:25:09.950 --> 00:25:12.836 what it does over two years.  
NOTE Confidence: 0.906567990779877

00:25:12.840 --> 00:25:15.708 My original pilot study only  
NOTE Confidence: 0.906567990779877

00:25:15.708 --> 00:25:18.659 investigated effects in 30 veterans.

NOTE Confidence: 0.906567990779877  
00:25:18.660 --> 00:25:21.885 15 leuprolide injection and  
NOTE Confidence: 0.906567990779877  
00:25:21.885 --> 00:25:26.068 15 as a control that underwent  
NOTE Confidence: 0.906567990779877  
00:25:26.068 --> 00:25:30.248 surgery or just radiation alone.  
NOTE Confidence: 0.906567990779877  
00:25:30.250 --> 00:25:32.810 It actually showed that the newer  
NOTE Confidence: 0.906567990779877  
00:25:32.810 --> 00:25:35.370 cognitive testing was the same.  
NOTE Confidence: 0.906567990779877  
00:25:35.370 --> 00:25:37.062 People scored the same,  
NOTE Confidence: 0.906567990779877  
00:25:37.062 --> 00:25:40.252 but when you look at the functional  
NOTE Confidence: 0.906567990779877  
00:25:40.252 --> 00:25:43.032 brain imaging just six months  
NOTE Confidence: 0.906567990779877  
00:25:43.032 --> 00:25:45.883 of hormone therapy for prostate  
NOTE Confidence: 0.906567990779877  
00:25:45.883 --> 00:25:48.573 cancer completely changed the way  
NOTE Confidence: 0.906567990779877  
00:25:48.573 --> 00:25:51.242 the brain shows activation.  
NOTE Confidence: 0.906567990779877  
00:25:51.242 --> 00:25:53.290 What does this mean?  
NOTE Confidence: 0.906567990779877  
00:25:53.290 --> 00:25:57.898 That's something I think I need to find out,  
NOTE Confidence: 0.906567990779877  
00:25:57.900 --> 00:26:01.484 but it was very striking  
NOTE Confidence: 0.906567990779877  
00:26:01.490 --> 00:26:05.018 and to be honest I was a bit surprised  
NOTE Confidence: 0.906567990779877

00:26:05.018 --> 00:26:08.583 because I initially thought if the  
NOTE Confidence: 0.906567990779877

00:26:08.583 --> 00:26:11.858 newer cognitive test scores are the same,  
NOTE Confidence: 0.906567990779877

00:26:11.860 --> 00:26:15.017 why should the brain MRI be different?  
NOTE Confidence: 0.906567990779877

00:26:15.020 --> 00:26:18.485 And so I was educated that it can be  
NOTE Confidence: 0.906567990779877

00:26:18.485 --> 00:26:21.514 different and apparently in other disease  
NOTE Confidence: 0.906567990779877

00:26:21.514 --> 00:26:24.490 processes it can be different too.  
NOTE Confidence: 0.906567990779877

00:26:24.490 --> 00:26:27.410 Thanks to the support  
NOTE Confidence: 0.906567990779877

00:26:27.410 --> 00:26:30.872 of pilot studies through the Yale Cancer  
NOTE Confidence: 0.906567990779877

00:26:30.872 --> 00:26:33.517 Center through Dr. Herbst,  
NOTE Confidence: 0.906567990779877

00:26:33.520 --> 00:26:36.090 who supported this project,  
NOTE Confidence: 0.906567990779877

00:26:36.090 --> 00:26:39.688 we were able to do an additional study  
NOTE Confidence: 0.906567990779877

00:26:39.690 --> 00:26:43.288 of these 30 patients.  
NOTE Confidence: 0.906567990779877

00:26:43.290 --> 00:26:46.386 It actually turns out that certain  
NOTE Confidence: 0.906567990779877

00:26:46.386 --> 00:26:48.450 circuits that are connecting  
NOTE Confidence: 0.906567990779877

00:26:48.536 --> 00:26:50.951 different brain areas to process  
NOTE Confidence: 0.906567990779877

00:26:50.951 --> 00:26:53.985 things seem to be affected by

NOTE Confidence: 0.906567990779877

00:26:53.985 --> 00:26:56.645 hormone therapy for prostate cancer,

NOTE Confidence: 0.906567990779877

00:26:56.650 --> 00:27:00.410 so I suspect that the longer we give

NOTE Confidence: 0.906567990779877

00:27:00.410 --> 00:27:04.366 somebody hormone therapy for prostate cancer,

NOTE Confidence: 0.906567990779877

00:27:04.370 --> 00:27:08.180 the more effects we can see.

NOTE Confidence: 0.906567990779877

00:27:08.180 --> 00:27:09.788 Now that being said,

NOTE Confidence: 0.906567990779877

00:27:09.788 --> 00:27:13.339 I don't want to create any fear among

NOTE Confidence: 0.906567990779877

00:27:13.339 --> 00:27:15.964 patients to get hormone therapy.

NOTE Confidence: 0.906567990779877

00:27:15.970 --> 00:27:18.260 I think it's a very,

NOTE Confidence: 0.906567990779877

00:27:18.260 --> 00:27:20.996 very important treatment for prostate cancer,

NOTE Confidence: 0.906567990779877

00:27:21.000 --> 00:27:23.748 especially for stage four prostate cancer,

NOTE Confidence: 0.906567990779877

00:27:23.750 --> 00:27:26.084 and I think this is actually

NOTE Confidence: 0.906567990779877

00:27:26.084 --> 00:27:28.816 part of the cognitive

NOTE Confidence: 0.906567990779877

00:27:28.816 --> 00:27:31.536 side effects of hormone therapy.

NOTE Confidence: 0.906567990779877

00:27:31.540 --> 00:27:34.288 That's something we need to study,

NOTE Confidence: 0.906567990779877

00:27:34.290 --> 00:27:36.966 and I believe not everybody

NOTE Confidence: 0.906567990779877

00:27:36.966 --> 00:27:39.380 is vulnerable to it.  
NOTE Confidence: 0.906567990779877

00:27:39.380 --> 00:27:41.330 There are certain individual vulnerability  
NOTE Confidence: 0.906567990779877

00:27:41.330 --> 00:27:43.920 that we have to identify and study.  
NOTE Confidence: 0.927918434143066

00:27:43.920 --> 00:27:45.535 That was going  
NOTE Confidence: 0.927918434143066

00:27:45.535 --> 00:27:48.070 to be one of my questions.  
NOTE Confidence: 0.927918434143066

00:27:48.070 --> 00:27:50.248 Was that in that functional MRI  
NOTE Confidence: 0.927918434143066

00:27:50.248 --> 00:27:52.797 study where you had some  
NOTE Confidence: 0.927918434143066

00:27:52.797 --> 00:27:55.184 patients who had the LHRH agonist  
NOTE Confidence: 0.927918434143066

00:27:55.264 --> 00:27:57.898 therapy and some patients who didn't,  
NOTE Confidence: 0.927918434143066

00:27:57.900 --> 00:28:00.168 and you found that there was a  
NOTE Confidence: 0.927918434143066

00:28:00.168 --> 00:28:02.018 difference in the functional brain  
NOTE Confidence: 0.927918434143066

00:28:02.018 --> 00:28:04.448 imaging between the two groups  
NOTE Confidence: 0.927918434143066

00:28:04.448 --> 00:28:07.671 were all of the patients who had the  
NOTE Confidence: 0.927918434143066

00:28:07.671 --> 00:28:09.519 LHRH against therapy still thinking that  
NOTE Confidence: 0.927918434143066

00:28:09.519 --> 00:28:11.193 the hormones were frying their brain  
NOTE Confidence: 0.927918434143066

00:28:11.193 --> 00:28:13.360 or were some of them quite functional?

NOTE Confidence: 0.901062607765198  
00:28:14.030 --> 00:28:17.054 I would say some of them  
NOTE Confidence: 0.901062607765198  
00:28:17.054 --> 00:28:19.070 were quite functional and  
NOTE Confidence: 0.901062607765198  
00:28:19.070 --> 00:28:21.950 that is the reason why I was  
NOTE Confidence: 0.901062607765198  
00:28:21.950 --> 00:28:25.110 surprised to find on the brain imaging  
NOTE Confidence: 0.901062607765198  
00:28:25.110 --> 00:28:27.470 study that they're still changes.  
NOTE Confidence: 0.901062607765198  
00:28:27.470 --> 00:28:29.570 And some were  
NOTE Confidence: 0.901062607765198  
00:28:29.570 --> 00:28:31.670 complaining of maybe hot flashes.  
NOTE Confidence: 0.901062607765198  
00:28:31.670 --> 00:28:34.542 So I think frequently we say,  
NOTE Confidence: 0.901062607765198  
00:28:34.542 --> 00:28:37.621 maybe you feel more fatigued  
NOTE Confidence: 0.901062607765198  
00:28:37.621 --> 00:28:40.422 because of hot flashes that you  
NOTE Confidence: 0.901062607765198  
00:28:40.422 --> 00:28:43.008 can get with those LHRH agonist,  
NOTE Confidence: 0.901062607765198  
00:28:43.010 --> 00:28:45.578 or whether there could be  
NOTE Confidence: 0.901062607765198  
00:28:45.580 --> 00:28:47.644 some component of depression  
NOTE Confidence: 0.901062607765198  
00:28:47.644 --> 00:28:49.708 affecting your cognitive out,  
NOTE Confidence: 0.901062607765198  
00:28:49.710 --> 00:28:53.734 but I think that's the reason why it's  
NOTE Confidence: 0.901062607765198

00:28:53.734 --> 00:28:56.388 actually important to have something

NOTE Confidence: 0.901062607765198

00:28:56.388 --> 00:28:59.502 that's not just subjective,

NOTE Confidence: 0.901062607765198

00:28:59.510 --> 00:29:02.606 it's actually fairly objective for the

00:29:03.492 --> 00:29:06.579 patients to see actually on brain imaging,

NOTE Confidence: 0.901062607765198

00:29:06.580 --> 00:29:09.280 there are changes and

NOTE Confidence: 0.901062607765198

00:29:09.280 --> 00:29:12.494 while this is all still

NOTE Confidence: 0.901062607765198

00:29:12.494 --> 00:29:15.128 very much a topic of research,

NOTE Confidence: 0.901062607765198

00:29:15.130 --> 00:29:17.518 for my patient,

NOTE Confidence: 0.901062607765198

00:29:17.520 --> 00:29:19.974 who was the original one to actually

NOTE Confidence: 0.901062607765198

00:29:19.974 --> 00:29:22.710 complain to me about it, was very,

NOTE Confidence: 0.901062607765198

00:29:22.710 --> 00:29:23.910 very comforted actually,

NOTE Confidence: 0.901062607765198

00:29:23.910 --> 00:29:27.492 to know that it's not just in his mind.

NOTE Confidence: 0.901062607765198

00:29:27.500 --> 00:29:29.490 It is actually something that

NOTE Confidence: 0.901062607765198

00:29:29.490 --> 00:29:30.684 we can see.

NOTE Confidence: 0.930424451828003

00:29:30.690 --> 00:29:33.028 Dr. Herta Chao is the deputy

NOTE Confidence: 0.930424451828003

00:29:33.028 --> 00:29:35.484 director at the VA comprehensive Cancer

NOTE Confidence: 0.930424451828003

00:29:35.484 --> 00:29:37.789 Center and an associate professor  
NOTE Confidence: 0.930424451828003

00:29:37.789 --> 00:29:39.940 of Medicine and medical oncology  
NOTE Confidence: 0.930424451828003

00:29:39.940 --> 00:29:42.256 at the Yale School of Medicine.  
NOTE Confidence: 0.930424451828003

00:29:42.260 --> 00:29:43.900 If you have questions,  
NOTE Confidence: 0.930424451828003

00:29:43.900 --> 00:29:45.540 the address is canceranswers@yale.edu.  
NOTE Confidence: 0.930424451828003

00:29:45.540 --> 00:29:47.262 And past editions of the program  
NOTE Confidence: 0.930424451828003

00:29:47.262 --> 00:29:49.323 are available in audio and written  
NOTE Confidence: 0.930424451828003

00:29:49.323 --> 00:29:50.607 form at Yalecancercenter.org.  
NOTE Confidence: 0.930424451828003

00:29:50.610 --> 00:29:53.234 We hope you'll join us next week to  
NOTE Confidence: 0.930424451828003

00:29:53.234 --> 00:29:55.794 learn more about the fight against  
NOTE Confidence: 0.930424451828003

00:29:55.794 --> 00:29:58.536 cancer here on Connecticut public radio.