

WEBVTT

00:00:00.160 --> 00:00:01.920 Funding for Yale Cancer Answers

NOTE Confidence: 0.9362146

00:00:01.920 --> 00:00:03.679 is provided by Smilow Cancer

NOTE Confidence: 0.9362146

00:00:03.679 --> 00:00:04.180 Hospital.

NOTE Confidence: 0.9288788

00:00:06.319 --> 00:00:08.400 Welcome to Yale Cancer Answers

NOTE Confidence: 0.9288788

00:00:08.400 --> 00:00:09.440 with the director of the

NOTE Confidence: 0.9288788

00:00:09.440 --> 00:00:11.280 Yale Cancer Center, Doctor Eric

NOTE Confidence: 0.9288788

00:00:11.280 --> 00:00:11.780 Winer.

NOTE Confidence: 0.9918662

00:00:12.434 --> 00:00:14.535 Yale Cancer Answers features conversations

NOTE Confidence: 0.9918662

00:00:14.834 --> 00:00:15.575 with oncologists

NOTE Confidence: 0.9978125

00:00:15.875 --> 00:00:17.075 and specialists who are on

NOTE Confidence: 0.9978125

00:00:17.075 --> 00:00:18.275 the forefront of the battle

NOTE Confidence: 0.9978125

00:00:18.275 --> 00:00:19.255 to fight cancer.

NOTE Confidence: 0.9886899

00:00:19.875 --> 00:00:21.175 This week, it's a conversation

NOTE Confidence: 0.9886899

00:00:21.314 --> 00:00:22.595 about the care of patients

NOTE Confidence: 0.9886899

00:00:22.595 --> 00:00:24.595 with urologic cancers with doctor

NOTE Confidence: 0.9886899

00:00:24.595 --> 00:00:25.494 Preston Sprenkle.
NOTE Confidence: 0.9955482
00:00:26.039 --> 00:00:27.800 Doctor Sprenkle is an associate
NOTE Confidence: 0.9955482
00:00:27.800 --> 00:00:29.400 professor of urology at the
NOTE Confidence: 0.9955482
00:00:29.400 --> 00:00:30.699 Yale School of Medicine.
NOTE Confidence: 0.8956689
00:00:31.000 --> 00:00:32.220 Here's doctor Winer.
NOTE Confidence: 0.9866029
00:00:34.520 --> 00:00:36.220 Why don't we start off
NOTE Confidence: 0.9995442
00:00:37.479 --> 00:00:39.239 just hearing a little bit
NOTE Confidence: 0.9995442
00:00:39.239 --> 00:00:40.460 about you
NOTE Confidence: 0.9828101
00:00:40.835 --> 00:00:42.275 and how you got interested
NOTE Confidence: 0.9828101
00:00:42.275 --> 00:00:43.735 in urologic cancers.
NOTE Confidence: 0.99364406
00:00:45.155 --> 00:00:47.175 So I trained in urology
NOTE Confidence: 0.9681276
00:00:47.795 --> 00:00:49.815 residency in New York and
NOTE Confidence: 0.99956006
00:00:50.995 --> 00:00:53.380 was really impressed with the
NOTE Confidence: 0.99956006
00:00:53.380 --> 00:00:53.880 complexity
NOTE Confidence: 0.9976603
00:00:54.340 --> 00:00:55.480 of urologic
NOTE Confidence: 0.9874219
00:00:55.860 --> 00:00:57.079 cancers and

NOTE Confidence: 0.97498566
00:00:58.100 --> 00:00:59.700 the challenges that we face
NOTE Confidence: 0.97498566
00:00:59.700 --> 00:01:01.079 when treating them.
NOTE Confidence: 0.9990408
00:01:02.020 --> 00:01:03.239 I think it was
NOTE Confidence: 0.95738816
00:01:04.020 --> 00:01:05.619 a lot of basic science,
NOTE Confidence: 0.95738816
00:01:05.619 --> 00:01:07.220 the integration of science
NOTE Confidence: 0.95738816
00:01:07.220 --> 00:01:08.440 in clinical medicine,
NOTE Confidence: 0.89470047
00:01:09.194 --> 00:01:09.694 and,
NOTE Confidence: 0.9972114
00:01:11.435 --> 00:01:11.935 really
NOTE Confidence: 0.90501547
00:01:12.555 --> 00:01:13.935 how we were able to
NOTE Confidence: 0.9992299
00:01:14.315 --> 00:01:15.935 try to integrate all these
NOTE Confidence: 0.9792809
00:01:17.355 --> 00:01:19.515 complex technical issues with
NOTE Confidence: 0.9792809
00:01:19.515 --> 00:01:21.035 patient care and
NOTE Confidence: 0.9792809
00:01:21.035 --> 00:01:22.655 helping patients
NOTE Confidence: 0.9868868
00:01:23.250 --> 00:01:25.090 and especially men with prostate
NOTE Confidence: 0.9868868
00:01:25.090 --> 00:01:25.590 cancer
NOTE Confidence: 0.9892043

00:01:26.209 --> 00:01:27.970 understand their diagnosis and make
NOTE Confidence: 0.9892043

00:01:27.970 --> 00:01:29.110 good treatment decisions.
NOTE Confidence: 0.998011

00:01:30.130 --> 00:01:31.350 Since being at Yale,
NOTE Confidence: 0.99857944

00:01:32.290 --> 00:01:34.450 this has grown from starting
NOTE Confidence: 0.99857944

00:01:34.450 --> 00:01:35.190 an MRI
NOTE Confidence: 0.9821644

00:01:35.834 --> 00:01:38.315 ultrasound fusion prostate biopsy program
NOTE Confidence: 0.9821644

00:01:38.315 --> 00:01:39.595 to really be more accurate
NOTE Confidence: 0.9821644

00:01:39.595 --> 00:01:40.315 in the way that we
NOTE Confidence: 0.9821644

00:01:40.315 --> 00:01:42.015 diagnose prostate cancer,
NOTE Confidence: 0.9998336

00:01:42.475 --> 00:01:42.975 limit
NOTE Confidence: 0.9941381

00:01:43.435 --> 00:01:44.635 the number of men who
NOTE Confidence: 0.9941381

00:01:44.635 --> 00:01:45.775 have to have a prostate
NOTE Confidence: 0.9941381

00:01:45.834 --> 00:01:47.755 biopsy by using that
NOTE Confidence: 0.9941381

00:01:47.755 --> 00:01:48.255 imaging.
NOTE Confidence: 0.9979163

00:01:48.955 --> 00:01:49.935 And now
NOTE Confidence: 0.99224705

00:01:50.899 --> 00:01:52.359 we've transitioned that

NOTE Confidence: 0.99928766
00:01:52.659 --> 00:01:53.159 into
NOTE Confidence: 0.99629885
00:01:53.619 --> 00:01:55.939 more precise treatments with prostate
NOTE Confidence: 0.99629885
00:01:55.939 --> 00:01:57.320 cancer ablation therapies.
NOTE Confidence: 0.9723077
00:01:57.780 --> 00:01:59.460 And we'll drill down
NOTE Confidence: 0.9723077
00:01:59.460 --> 00:02:01.240 on some of those.
NOTE Confidence: 0.99958515
00:02:01.619 --> 00:02:03.159 As a breast cancer doctor,
NOTE Confidence: 0.99958515
00:02:03.219 --> 00:02:05.159 I often think of prostate
NOTE Confidence: 0.99958515
00:02:05.299 --> 00:02:05.799 cancer as
00:02:08.175 --> 00:02:09.155 the men's equivalent
NOTE Confidence: 0.9928532
00:02:09.455 --> 00:02:10.355 of postmenopausal
NOTE Confidence: 0.90721345
00:02:10.975 --> 00:02:11.715 breast cancer.
NOTE Confidence: 0.9778095
00:02:12.255 --> 00:02:13.615 And I think it is
NOTE Confidence: 0.9778095
00:02:13.615 --> 00:02:15.315 in a number of ways,
NOTE Confidence: 0.9778095
00:02:15.375 --> 00:02:16.895 and one of those ways
NOTE Confidence: 0.9778095
00:02:16.895 --> 00:02:18.415 is that prostate cancer isn't
NOTE Confidence: 0.9778095
00:02:18.415 --> 00:02:19.475 just one disease.

NOTE Confidence: 0.9929014
00:02:20.120 --> 00:02:22.040 It's really a range of
NOTE Confidence: 0.9929014
00:02:22.040 --> 00:02:23.580 different diseases that
NOTE Confidence: 0.99969167
00:02:24.360 --> 00:02:25.960 can vary from those that are
00:02:27.400 --> 00:02:27.900 remarkably
NOTE Confidence: 0.99926317
00:02:28.280 --> 00:02:29.100 slow growing
NOTE Confidence: 0.9976902
00:02:29.560 --> 00:02:30.680 to those that are more
NOTE Confidence: 0.9976902
00:02:30.680 --> 00:02:31.180 aggressive.
NOTE Confidence: 0.9990711
00:02:31.960 --> 00:02:32.715 Can you just
NOTE Confidence: 0.99632806
00:02:33.275 --> 00:02:34.575 talk a little bit about,
NOTE Confidence: 0.97128934
00:02:35.275 --> 00:02:37.194 first, maybe the very slow
NOTE Confidence: 0.97128934
00:02:37.194 --> 00:02:39.375 growing prostate cancers and
NOTE Confidence: 0.9895894
00:02:39.754 --> 00:02:41.275 what does and doesn't have
NOTE Confidence: 0.9895894
00:02:41.275 --> 00:02:42.155 to be done in terms
NOTE Confidence: 0.9895894
00:02:42.155 --> 00:02:43.694 of treatment for some men?
NOTE Confidence: 0.9895894
00:02:43.834 --> 00:02:44.875 Yeah. Thank you for
NOTE Confidence: 0.9895894
00:02:44.875 --> 00:02:46.175 that question.

00:02:47.400 --> 00:02:48.620 There's a tremendous
NOTE Confidence: 0.72057915

00:02:49.639 --> 00:02:50.540 almost rainbow
NOTE Confidence: 0.9997439

00:02:51.319 --> 00:02:52.620 of ways that we
NOTE Confidence: 0.9676536

00:02:52.919 --> 00:02:54.780 interpret and manage prostate cancers,
NOTE Confidence: 0.98606485

00:02:56.280 --> 00:02:58.120 a tremendous breadth. So low
NOTE Confidence: 0.98606485

00:02:58.120 --> 00:03:00.120 grade prostate cancer, there is
NOTE Confidence: 0.98606485

00:03:00.120 --> 00:03:02.565 an ongoing international discussion about
NOTE Confidence: 0.98606485

00:03:02.565 --> 00:03:03.605 whether or not we should
NOTE Confidence: 0.98606485

00:03:03.605 --> 00:03:05.225 be calling it prostate cancer
NOTE Confidence: 0.98606485

00:03:05.285 --> 00:03:06.905 because it seems to have
NOTE Confidence: 0.99969167

00:03:07.445 --> 00:03:08.745 such a low
NOTE Confidence: 0.99478495

00:03:09.845 --> 00:03:11.605 likelihood of ever causing a
NOTE Confidence: 0.99478495

00:03:11.605 --> 00:03:13.845 man's death that we follow
NOTE Confidence: 0.99478495

00:03:13.845 --> 00:03:15.925 those routinely with something called
NOTE Confidence: 0.99478495

00:03:15.925 --> 00:03:16.905 active surveillance.
00:03:18.349 --> 00:03:19.730 It does not require treatment.
NOTE Confidence: 0.99479026

00:03:20.590 --> 00:03:22.269 We monitor it closely so
NOTE Confidence: 0.99479026

00:03:22.269 --> 00:03:23.230 that we can pick up
NOTE Confidence: 0.99479026

00:03:23.230 --> 00:03:24.209 early if
NOTE Confidence: 0.99974275

00:03:24.510 --> 00:03:25.549 it is one of those
NOTE Confidence: 0.99974275

00:03:25.549 --> 00:03:27.090 very rare cases that
NOTE Confidence: 0.99886155

00:03:27.389 --> 00:03:28.669 has the potential or will
NOTE Confidence: 0.99886155

00:03:28.669 --> 00:03:30.030 behave more aggressively in the
NOTE Confidence: 0.99886155

00:03:30.030 --> 00:03:30.530 future.
NOTE Confidence: 0.9877678

00:03:31.775 --> 00:03:33.455 So that used to
NOTE Confidence: 0.9877678

00:03:33.455 --> 00:03:35.135 be about half or more
NOTE Confidence: 0.9877678

00:03:35.135 --> 00:03:36.255 than half of the prostate
NOTE Confidence: 0.9877678

00:03:36.255 --> 00:03:37.715 cancers that we would diagnose
NOTE Confidence: 0.9605314

00:03:38.415 --> 00:03:40.015 with now usage of better
NOTE Confidence: 0.9605314

00:03:40.015 --> 00:03:42.335 screening techniques, including this MRI
NOTE Confidence: 0.9605314

00:03:42.335 --> 00:03:43.635 imaging for the prostate.
NOTE Confidence: 0.9926277

00:03:44.975 --> 00:03:47.215 At most academic centers, it's

NOTE Confidence: 0.9926277
00:03:47.215 --> 00:03:48.390 now closer to about a
NOTE Confidence: 0.9926277
00:03:48.390 --> 00:03:49.430 third. So we've been able
NOTE Confidence: 0.9926277
00:03:49.430 --> 00:03:51.530 to avoid doing prostate biopsies
NOTE Confidence: 0.9926277
00:03:51.590 --> 00:03:52.330 and diagnosing
NOTE Confidence: 0.9888191
00:03:52.790 --> 00:03:54.390 these low grade cancers in
NOTE Confidence: 0.9888191
00:03:54.390 --> 00:03:55.270 about a quarter of the
NOTE Confidence: 0.9888191
00:03:55.270 --> 00:03:56.230 men that we used
NOTE Confidence: 0.9888191
00:03:56.230 --> 00:03:57.830 to diagnose it in.
NOTE Confidence: 0.9888191
00:03:57.830 --> 00:03:59.209 And I'm sure that
NOTE Confidence: 0.99683696
00:03:59.510 --> 00:04:01.349 even when someone's told that
NOTE Confidence: 0.99683696
00:04:01.349 --> 00:04:02.090 they have
NOTE Confidence: 0.99691665
00:04:02.535 --> 00:04:04.295 low grade prostate cancer and
NOTE Confidence: 0.99691665
00:04:04.295 --> 00:04:05.815 it's unlikely to cause their
NOTE Confidence: 0.99691665
00:04:05.815 --> 00:04:07.575 death, it still causes some
NOTE Confidence: 0.99691665
00:04:07.575 --> 00:04:08.795 amount of distress.
NOTE Confidence: 0.9658599

00:04:09.815 --> 00:04:11.495 Definitely.
NOTE Confidence: 0.9658599

00:04:11.495 --> 00:04:12.775 And that's one of
NOTE Confidence: 0.9658599

00:04:12.775 --> 00:04:14.215 the largest challenges that we
NOTE Confidence: 0.9658599

00:04:14.215 --> 00:04:15.595 have is how to
NOTE Confidence: 0.99032986

00:04:16.680 --> 00:04:18.279 reassure these men
NOTE Confidence: 0.99032986

00:04:18.279 --> 00:04:19.080 who have all of a
NOTE Confidence: 0.99032986

00:04:19.080 --> 00:04:21.180 sudden gotten this cancer diagnosis
NOTE Confidence: 0.99032986

00:04:21.400 --> 00:04:22.860 that this is not something
NOTE Confidence: 0.9558398

00:04:23.400 --> 00:04:25.100 that is dangerous to them
NOTE Confidence: 0.9558398

00:04:25.240 --> 00:04:27.260 and that in many cases,
NOTE Confidence: 0.9993639

00:04:27.960 --> 00:04:30.060 the management or a treatment
NOTE Confidence: 0.9993639

00:04:30.120 --> 00:04:31.740 for this prostate cancer
NOTE Confidence: 0.9716498

00:04:32.264 --> 00:04:33.705 is probably worse than the
NOTE Confidence: 0.9716498

00:04:33.705 --> 00:04:35.145 disease itself. And that is
NOTE Confidence: 0.9716498

00:04:35.145 --> 00:04:36.264 one of the major challenges
NOTE Confidence: 0.9716498

00:04:36.264 --> 00:04:37.305 that we have in

NOTE Confidence: 0.9716498
00:04:37.305 --> 00:04:37.805 managing
NOTE Confidence: 0.99954796
00:04:38.505 --> 00:04:39.485 prostate cancer.
NOTE Confidence: 0.94927037
00:04:39.865 --> 00:04:41.384 Yeah. Well, here again is
NOTE Confidence: 0.94927037
00:04:41.384 --> 00:04:43.065 the parallel with breast
NOTE Confidence: 0.94927037
00:04:43.065 --> 00:04:44.764 cancer where
NOTE Confidence: 0.98171645
00:04:45.570 --> 00:04:47.330 we recognize that for some
NOTE Confidence: 0.98171645
00:04:47.330 --> 00:04:49.089 patients, we need new and
NOTE Confidence: 0.98171645
00:04:49.089 --> 00:04:50.449 better therapies, and there are
NOTE Confidence: 0.98171645
00:04:50.449 --> 00:04:52.130 still people who die of
NOTE Confidence: 0.98171645
00:04:52.130 --> 00:04:53.250 breast cancer in much the
NOTE Confidence: 0.98171645
00:04:53.250 --> 00:04:54.770 same way there are people
NOTE Confidence: 0.98171645
00:04:54.770 --> 00:04:56.630 who die from prostate cancer.
NOTE Confidence: 0.98171645
00:04:56.930 --> 00:04:58.210 But then there's a large
NOTE Confidence: 0.98171645
00:04:58.210 --> 00:04:59.810 population where we need to
NOTE Confidence: 0.98171645
00:04:59.810 --> 00:05:00.630 figure out
NOTE Confidence: 0.9995899

00:05:01.065 --> 00:05:02.745 how we can do less
NOTE Confidence: 0.9995899

00:05:02.745 --> 00:05:04.285 and achieve the same outcomes.
NOTE Confidence: 0.9987826

00:05:04.904 --> 00:05:06.445 So when you're identifying
NOTE Confidence: 0.99970937

00:05:07.225 --> 00:05:08.765 these patients who have
NOTE Confidence: 0.99740404

00:05:09.705 --> 00:05:11.865 low grade prostate cancer, you
NOTE Confidence: 0.99740404

00:05:11.865 --> 00:05:12.765 still use
NOTE Confidence: 0.7813242

00:05:13.545 --> 00:05:15.005 a Gleason score?
NOTE Confidence: 0.94443446

00:05:15.509 --> 00:05:16.629 And you wanna talk about
NOTE Confidence: 0.94443446

00:05:16.629 --> 00:05:17.990 that a little bit?
NOTE Confidence: 0.94443446

00:05:17.990 --> 00:05:20.009 We do. So the Gleason
NOTE Confidence: 0.96421444

00:05:21.029 --> 00:05:23.529 scoring system has evolved somewhat.
NOTE Confidence: 0.96421444

00:05:23.750 --> 00:05:25.190 We're now using
NOTE Confidence: 0.96421444

00:05:25.190 --> 00:05:26.970 a Gleason grade grouping
NOTE Confidence: 0.8633055

00:05:27.349 --> 00:05:28.409 system because
NOTE Confidence: 0.9467595

00:05:29.455 --> 00:05:31.455 the historical Gleason score sort
NOTE Confidence: 0.9467595

00:05:31.455 --> 00:05:32.495 of went from two to

NOTE Confidence: 0.9467595
00:05:32.495 --> 00:05:33.535 ten, but
NOTE Confidence: 0.962923
00:05:34.014 --> 00:05:35.535 we only considered things of
NOTE Confidence: 0.962923
00:05:35.535 --> 00:05:36.654 a six or higher to
NOTE Confidence: 0.962923
00:05:36.654 --> 00:05:37.395 be cancer.
NOTE Confidence: 0.98284584
00:05:38.255 --> 00:05:39.775 But intuitively, a six out
NOTE Confidence: 0.98284584
00:05:39.775 --> 00:05:41.214 of ten seems bad. And
NOTE Confidence: 0.98284584
00:05:41.214 --> 00:05:42.654 so even though that's the
NOTE Confidence: 0.98284584
00:05:42.654 --> 00:05:43.154 lowest
NOTE Confidence: 0.8755331
00:05:43.760 --> 00:05:45.220 grade.
00:05:46.560 --> 00:05:48.180 So a concerted effort by
NOTE Confidence: 0.9712777
00:05:48.640 --> 00:05:50.339 the International Society of Urologic
NOTE Confidence: 0.9712777
00:05:50.480 --> 00:05:50.980 Pathology,
NOTE Confidence: 0.97337806
00:05:51.360 --> 00:05:53.220 they regraded it or rebranded
NOTE Confidence: 0.97337806
00:05:53.360 --> 00:05:54.320 it as a grade group
NOTE Confidence: 0.97337806
00:05:54.320 --> 00:05:55.360 one through five. So now
NOTE Confidence: 0.97337806
00:05:55.360 --> 00:05:56.400 we're on a five point

NOTE Confidence: 0.97337806
00:05:56.400 --> 00:05:57.735 scale. A one out of
NOTE Confidence: 0.97337806
00:05:57.735 --> 00:05:59.195 five is much more intuitively
NOTE Confidence: 0.97337806
00:05:59.415 --> 00:06:00.455 kind of low risk and
NOTE Confidence: 0.97337806
00:06:00.455 --> 00:06:00.955 low
NOTE Confidence: 0.9234564
00:06:01.335 --> 00:06:02.875 grade. But there still is,
NOTE Confidence: 0.9232132
00:06:03.255 --> 00:06:04.375 and there is actually an
NOTE Confidence: 0.9232132
00:06:04.375 --> 00:06:04.875 effort
NOTE Confidence: 0.8362152
00:06:06.295 --> 00:06:07.595 underway to reevaluate
NOTE Confidence: 0.99279773
00:06:07.895 --> 00:06:09.335 Gleason, especially now that we
NOTE Confidence: 0.99279773
00:06:09.335 --> 00:06:10.555 have a lot more genomic
NOTE Confidence: 0.99279773
00:06:10.615 --> 00:06:12.395 information about prostate cancer.
NOTE Confidence: 0.99133956
00:06:12.980 --> 00:06:14.440 There are efforts underway
NOTE Confidence: 0.99133956
00:06:14.580 --> 00:06:16.520 to reevaluate that.
NOTE Confidence: 0.95852673
00:06:16.820 --> 00:06:18.180 And is a Gleason six
NOTE Confidence: 0.95852673
00:06:18.180 --> 00:06:19.540 the equivalent now of a one?
NOTE Confidence: 0.95852673

00:06:19.540 --> 00:06:21.300 That is correct. Yep.
NOTE Confidence: 0.95852673

00:06:21.300 --> 00:06:22.339 So grade group one is
NOTE Confidence: 0.95852673

00:06:22.339 --> 00:06:23.860 a Gleason six. Grade group
NOTE Confidence: 0.95852673

00:06:23.860 --> 00:06:25.755 two is a Gleason three
NOTE Confidence: 0.95852673

00:06:25.755 --> 00:06:26.875 plus four equals seven. And
NOTE Confidence: 0.95852673

00:06:26.875 --> 00:06:27.915 that was the other confusing
NOTE Confidence: 0.95852673

00:06:27.915 --> 00:06:28.635 thing is you had a
NOTE Confidence: 0.95852673

00:06:28.635 --> 00:06:29.675 three plus four equals seven
NOTE Confidence: 0.95852673

00:06:29.675 --> 00:06:30.635 and a four plus three
NOTE Confidence: 0.95852673

00:06:30.635 --> 00:06:32.235 equals seven. Those are now
NOTE Confidence: 0.95852673

00:06:32.235 --> 00:06:33.995 grades one, two, and three.
NOTE Confidence: 0.95852673

00:06:33.995 --> 00:06:35.275 So it's a little bit
NOTE Confidence: 0.95852673

00:06:35.275 --> 00:06:36.015 more clear
NOTE Confidence: 0.9609542

00:06:36.635 --> 00:06:37.515 for us to be able
NOTE Confidence: 0.9609542

00:06:37.515 --> 00:06:39.430 to communicate.
NOTE Confidence: 0.9479825

00:06:43.589 --> 00:06:45.770 Gleason six, or the new one, is

00:06:47.510 --> 00:06:49.510 where you're very often
NOTE Confidence: 0.9924608

00:06:49.510 --> 00:06:51.610 talking about active surveillance?
NOTE Confidence: 0.99820006

00:06:52.555 --> 00:06:53.055 Correct.
NOTE Confidence: 0.9674936

00:06:53.515 --> 00:06:55.295 All of the guidelines internationally
NOTE Confidence: 0.9674936

00:06:55.515 --> 00:06:56.714 at this point for grade
NOTE Confidence: 0.9674936

00:06:56.714 --> 00:06:58.415 group one or Gleason six
NOTE Confidence: 0.9674936

00:06:58.555 --> 00:07:00.815 recommend active surveillance. They recommend
NOTE Confidence: 0.9674936

00:07:00.875 --> 00:07:02.795 against treatment. And that is
NOTE Confidence: 0.9674936

00:07:02.795 --> 00:07:03.295 because
NOTE Confidence: 0.9490826

00:07:03.995 --> 00:07:06.009 the data suggests a greater
NOTE Confidence: 0.9490826

00:07:06.009 --> 00:07:07.770 than ninety nine percent fifteen
NOTE Confidence: 0.9490826

00:07:07.770 --> 00:07:10.190 year survival without any intervention
NOTE Confidence: 0.8805364

00:07:10.650 --> 00:07:12.650 for men with the
NOTE Confidence: 0.8805364

00:07:12.650 --> 00:07:14.430 grade group one prostate cancer.
NOTE Confidence: 0.99854183

00:07:15.130 --> 00:07:16.990 So some of us are
NOTE Confidence: 0.999892

00:07:17.294 --> 00:07:17.794 very

NOTE Confidence: 0.9663741

00:07:18.095 --> 00:07:19.854 adamant about not treating anyone

NOTE Confidence: 0.9663741

00:07:19.854 --> 00:07:21.134 with Gleason six or grade

NOTE Confidence: 0.9663741

00:07:21.134 --> 00:07:22.035 group one disease.

NOTE Confidence: 0.9925844

00:07:22.655 --> 00:07:23.775 And as we've gained more

NOTE Confidence: 0.9925844

00:07:23.775 --> 00:07:25.215 experience, we've actually expanded that

NOTE Confidence: 0.9925844

00:07:25.215 --> 00:07:26.414 to a large percentage of

NOTE Confidence: 0.9925844

00:07:26.414 --> 00:07:27.935 men with grade group two

NOTE Confidence: 0.9925844

00:07:27.935 --> 00:07:28.914 prostate cancer

NOTE Confidence: 0.93716806

00:07:29.294 --> 00:07:30.655 where we monitor them closely

NOTE Confidence: 0.93716806

00:07:30.655 --> 00:07:32.095 but do not require initial

NOTE Confidence: 0.93716806

00:07:32.095 --> 00:07:32.595 treatment.

NOTE Confidence: 0.9917937

00:07:33.190 --> 00:07:34.650 And, of course, the reason

NOTE Confidence: 0.9917937

00:07:34.710 --> 00:07:35.990 that you wanna try to

NOTE Confidence: 0.9917937

00:07:35.990 --> 00:07:37.510 avoid treatment is there are

NOTE Confidence: 0.9917937

00:07:37.510 --> 00:07:38.010 consequences.

NOTE Confidence: 0.9981339

00:07:38.870 --> 00:07:39.990 And maybe this is a
NOTE Confidence: 0.9981339

00:07:39.990 --> 00:07:41.270 good time for you to
NOTE Confidence: 0.9981339

00:07:41.270 --> 00:07:42.730 just touch on
NOTE Confidence: 0.99956244

00:07:43.190 --> 00:07:44.630 some of the problems that
NOTE Confidence: 0.99956244

00:07:44.630 --> 00:07:46.090 arise after either
NOTE Confidence: 0.99991286

00:07:46.634 --> 00:07:47.134 surgery
NOTE Confidence: 0.97170043

00:07:47.435 --> 00:07:49.675 or radiation for prostate cancer.
00:07:51.514 --> 00:07:52.395 You're
NOTE Confidence: 0.98043203

00:07:52.395 --> 00:07:53.354 absolutely right. There are kind
NOTE Confidence: 0.98043203

00:07:53.354 --> 00:07:54.794 of two main reasons not
NOTE Confidence: 0.98043203

00:07:54.794 --> 00:07:55.835 to treat men with these
NOTE Confidence: 0.98043203

00:07:55.835 --> 00:07:57.294 low and intermediate risk cancers.
NOTE Confidence: 0.98043203

00:07:57.354 --> 00:07:58.315 One is we know that
NOTE Confidence: 0.98043203

00:07:58.315 --> 00:07:59.595 it's not dangerous as we
NOTE Confidence: 0.98043203

00:07:59.595 --> 00:08:00.940 are talking about. There now
NOTE Confidence: 0.98043203

00:08:00.940 --> 00:08:02.860 are randomized clinical trials that
NOTE Confidence: 0.98043203

00:08:02.860 --> 00:08:04.780 show really minimal or no
NOTE Confidence: 0.98043203

00:08:04.780 --> 00:08:06.460 survival benefit to treating men
NOTE Confidence: 0.98043203

00:08:06.460 --> 00:08:07.980 with low and intermediate risk
NOTE Confidence: 0.98043203

00:08:07.980 --> 00:08:09.500 prostate cancer with fifteen and
NOTE Confidence: 0.98043203

00:08:09.500 --> 00:08:10.960 even twenty years of follow-up.
NOTE Confidence: 0.99902487

00:08:11.340 --> 00:08:12.800 In addition to the survival
NOTE Confidence: 0.99902487

00:08:12.860 --> 00:08:13.360 safety,
NOTE Confidence: 0.9696806

00:08:14.185 --> 00:08:16.205 any treatments that we perform
NOTE Confidence: 0.9696806

00:08:16.425 --> 00:08:18.665 have significant or can have
NOTE Confidence: 0.9696806

00:08:18.665 --> 00:08:20.665 significant quality of life impact.
NOTE Confidence: 0.9696806

00:08:20.665 --> 00:08:22.425 So typically because of the
NOTE Confidence: 0.9696806

00:08:22.425 --> 00:08:24.185 location of the prostate being
NOTE Confidence: 0.9696806

00:08:24.185 --> 00:08:25.145 in the middle of the
NOTE Confidence: 0.9696806

00:08:25.145 --> 00:08:26.790 pelvis, it's near the rectum,
NOTE Confidence: 0.9696806

00:08:26.790 --> 00:08:28.310 it's near the bladder. The
NOTE Confidence: 0.9696806

00:08:28.310 --> 00:08:30.490 urethra passes through the prostate.

NOTE Confidence: 0.9821157

00:08:30.790 --> 00:08:32.070 So this is gonna impact

NOTE Confidence: 0.9821157

00:08:32.070 --> 00:08:33.830 potentially a man's urinary function,

NOTE Confidence: 0.9821157

00:08:33.830 --> 00:08:34.870 so their ability to hold

NOTE Confidence: 0.9821157

00:08:34.870 --> 00:08:36.950 their urine, their sexual function,

NOTE Confidence: 0.9821157

00:08:36.950 --> 00:08:38.070 their ability to get an

NOTE Confidence: 0.9821157

00:08:38.070 --> 00:08:39.370 erection or ejaculate,

NOTE Confidence: 0.8826395

00:08:40.274 --> 00:08:42.214 and also bowel function potentially

NOTE Confidence: 0.8826395

00:08:42.434 --> 00:08:44.115 in like diarrhea or other

NOTE Confidence: 0.8826395

00:08:44.115 --> 00:08:44.615 problems.

NOTE Confidence: 0.9978972

00:08:45.635 --> 00:08:47.635 Surgery is most commonly associated

NOTE Confidence: 0.9978972

00:08:47.635 --> 00:08:49.014 with urinary incontinence.

NOTE Confidence: 0.9987718

00:08:50.274 --> 00:08:51.495 Radiation therapy

NOTE Confidence: 0.98444974

00:08:52.035 --> 00:08:54.210 has significant concern for sort

NOTE Confidence: 0.98444974

00:08:54.210 --> 00:08:55.890 of bowel dysfunction or

NOTE Confidence: 0.99779326

00:08:56.850 --> 00:08:58.070 bowel function disruption.

NOTE Confidence: 0.9689425

00:08:59.410 --> 00:09:01.830 And in terms of erectile

NOTE Confidence: 0.9689425

00:09:01.890 --> 00:09:04.070 dysfunction, that's with both surgery

NOTE Confidence: 0.9689425

00:09:04.130 --> 00:09:05.430 and radiation or

NOTE Confidence: 0.96251446

00:09:05.810 --> 00:09:08.404 more surgery?

NOTE Confidence: 0.96251446

00:09:08.565 --> 00:09:09.524 We're starting to get into

NOTE Confidence: 0.96251446

00:09:09.524 --> 00:09:10.725 the details, which is great,

NOTE Confidence: 0.96251446

00:09:10.725 --> 00:09:12.245 but it in large

NOTE Confidence: 0.96251446

00:09:12.245 --> 00:09:13.205 part depends on

NOTE Confidence: 0.96251446

00:09:13.205 --> 00:09:14.565 where the cancer is located.

NOTE Confidence: 0.96251446

00:09:14.565 --> 00:09:15.464 So surgery

NOTE Confidence: 0.9956783

00:09:16.005 --> 00:09:17.045 can be done where we

NOTE Confidence: 0.9956783

00:09:17.045 --> 00:09:18.485 try to preserve the nerves

NOTE Confidence: 0.9956783

00:09:18.485 --> 00:09:19.765 that are related to sexual

NOTE Confidence: 0.9956783

00:09:19.765 --> 00:09:20.265 function,

NOTE Confidence: 0.9760714

00:09:20.670 --> 00:09:22.110 but that depends largely on

NOTE Confidence: 0.9760714

00:09:22.110 --> 00:09:23.230 if the cancer is near

NOTE Confidence: 0.9760714

00:09:23.230 --> 00:09:24.910 those nerves. A primary goal

00:09:25.710 --> 00:09:26.750 of treatment is to get

NOTE Confidence: 0.9940264

00:09:26.750 --> 00:09:28.190 the cancer out.

NOTE Confidence: 0.9940264

00:09:28.190 --> 00:09:29.809 And this is so called nerve sparing

NOTE Confidence: 0.9940264

00:09:29.870 --> 00:09:30.370 prostatectomy?

NOTE Confidence: 0.99851483

00:09:30.910 --> 00:09:32.589 Exactly. So with a

NOTE Confidence: 0.99851483

00:09:32.589 --> 00:09:34.130 nerve sparing prostatectomy,

NOTE Confidence: 0.984862

00:09:35.955 --> 00:09:37.795 that is pretty equivalent in

NOTE Confidence: 0.984862

00:09:37.795 --> 00:09:39.154 terms of impact on sexual

NOTE Confidence: 0.984862

00:09:39.154 --> 00:09:40.595 function to radiation when we

NOTE Confidence: 0.984862

00:09:40.595 --> 00:09:41.714 look out to five years

NOTE Confidence: 0.984862

00:09:41.714 --> 00:09:43.635 and beyond. Before five years,

NOTE Confidence: 0.984862

00:09:43.635 --> 00:09:45.335 there's less impact with radiation,

NOTE Confidence: 0.984862

00:09:45.554 --> 00:09:47.154 but probably more impact with

NOTE Confidence: 0.984862

00:09:47.154 --> 00:09:47.654 surgery.

NOTE Confidence: 0.9943817

00:09:47.990 --> 00:09:48.629 The issue is if you

NOTE Confidence: 0.9943817

00:09:48.629 --> 00:09:49.750 start to have cancer where

NOTE Confidence: 0.9943817

00:09:49.750 --> 00:09:50.709 we have to remove the

NOTE Confidence: 0.9943817

00:09:50.709 --> 00:09:52.329 nerve bundles with surgery,

NOTE Confidence: 0.95335555

00:09:52.709 --> 00:09:53.910 that has a much greater

NOTE Confidence: 0.95335555

00:09:53.910 --> 00:09:55.829 negative impact on erectile function.

NOTE Confidence: 0.95335555

00:09:55.829 --> 00:09:57.670 And that in part

NOTE Confidence: 0.95335555

00:09:57.670 --> 00:09:59.429 is why there's a

NOTE Confidence: 0.95335555

00:09:59.429 --> 00:10:01.245 growing interest in therapies like

NOTE Confidence: 0.95335555

00:10:01.404 --> 00:10:03.745 ablation therapies for prostate cancer,

NOTE Confidence: 0.977875

00:10:04.125 --> 00:10:05.485 where now that we

NOTE Confidence: 0.977875

00:10:05.485 --> 00:10:06.925 have this great imaging and

NOTE Confidence: 0.977875

00:10:06.925 --> 00:10:08.605 ability to do targeted biopsy

NOTE Confidence: 0.977875

00:10:08.605 --> 00:10:09.645 of the prostate, we can

NOTE Confidence: 0.977875

00:10:09.645 --> 00:10:11.485 actually localize the cancers within

NOTE Confidence: 0.977875

00:10:11.485 --> 00:10:12.225 the prostate,

NOTE Confidence: 0.98152494

00:10:12.765 --> 00:10:13.804 and we can now, with
NOTE Confidence: 0.98152494

00:10:13.804 --> 00:10:15.265 some of these ablation technologies,
NOTE Confidence: 0.9686799

00:10:16.110 --> 00:10:17.870 localize and treat the area
NOTE Confidence: 0.9686799

00:10:17.870 --> 00:10:19.230 with the prostate cancer
NOTE Confidence: 0.9686799

00:10:19.230 --> 00:10:20.029 and leave the rest of
NOTE Confidence: 0.9686799

00:10:20.029 --> 00:10:21.070 the prostate alone.
NOTE Confidence: 0.9686799

00:10:21.070 --> 00:10:22.350 Is that, on average, a much
NOTE Confidence: 0.9686799

00:10:22.350 --> 00:10:24.370 lower rate of sexual dysfunction,
NOTE Confidence: 0.9686799

00:10:24.510 --> 00:10:26.450 much lower rate of urinary
NOTE Confidence: 0.9686799

00:10:26.589 --> 00:10:28.450 incontinence and bowel dysfunction
NOTE Confidence: 0.9686799

00:10:28.589 --> 00:10:30.290 compared to surgery and radiation?
NOTE Confidence: 0.99825823

00:10:31.054 --> 00:10:33.454 So this now opens up
NOTE Confidence: 0.99825823

00:10:33.454 --> 00:10:36.334 the area of better tools
NOTE Confidence: 0.99825823

00:10:36.334 --> 00:10:38.355 we have for both diagnosing
NOTE Confidence: 0.99825823

00:10:38.495 --> 00:10:39.235 and treating.

00:10:41.054 --> 00:10:42.654 And what's changed in terms of
NOTE Confidence: 0.9993679

00:10:42.654 --> 00:10:43.154 diagnosis?
NOTE Confidence: 0.9998431

00:10:43.855 --> 00:10:44.675 The biggest
NOTE Confidence: 0.99988294

00:10:45.590 --> 00:10:46.730 change was
NOTE Confidence: 0.99597293

00:10:47.110 --> 00:10:49.590 the more widespread adoption of
NOTE Confidence: 0.99597293

00:10:49.590 --> 00:10:51.910 prostate MRI. So around two
NOTE Confidence: 0.99597293

00:10:51.910 --> 00:10:53.770 thousand ten, two thousand twelve,
NOTE Confidence: 0.8501115

00:10:54.230 --> 00:10:55.510 we began to really see
NOTE Confidence: 0.8501115

00:10:55.510 --> 00:10:56.650 an uptick
NOTE Confidence: 0.999135

00:10:57.030 --> 00:10:58.790 globally in the utilization of
NOTE Confidence: 0.999135

00:10:58.790 --> 00:10:59.770 prostate MRI.
NOTE Confidence: 0.9717055

00:11:00.345 --> 00:11:01.464 At that point, it was
NOTE Confidence: 0.9717055

00:11:01.464 --> 00:11:03.165 largely done in very specialized
NOTE Confidence: 0.9717055

00:11:03.225 --> 00:11:04.385 centers. We are very fortunate
NOTE Confidence: 0.9717055

00:11:04.385 --> 00:11:05.704 at Yale to have very
NOTE Confidence: 0.9717055

00:11:05.704 --> 00:11:06.204 experienced
NOTE Confidence: 0.98993015

00:11:06.584 --> 00:11:08.024 radiologists who are focused on

NOTE Confidence: 0.98993015
00:11:08.024 --> 00:11:08.925 prostate MRI.
NOTE Confidence: 0.9697233
00:11:09.385 --> 00:11:10.764 It is now more widely
NOTE Confidence: 0.9697233
00:11:10.904 --> 00:11:12.684 accepted and is
NOTE Confidence: 0.9697233
00:11:12.745 --> 00:11:13.644 done broadly.
NOTE Confidence: 0.9611748
00:11:14.220 --> 00:11:16.480 There still is dramatic variation
NOTE Confidence: 0.9611748
00:11:16.540 --> 00:11:17.820 in the quality of prostate
NOTE Confidence: 0.9611748
00:11:17.820 --> 00:11:19.179 MRI that's completed, but that
NOTE Confidence: 0.9611748
00:11:19.179 --> 00:11:20.459 has really shifted the playing
NOTE Confidence: 0.9611748
00:11:20.459 --> 00:11:21.500 field for us over the
NOTE Confidence: 0.9611748
00:11:21.500 --> 00:11:22.940 last decade because it allows
NOTE Confidence: 0.9611748
00:11:22.940 --> 00:11:24.300 us, like you mentioned earlier,
NOTE Confidence: 0.9611748
00:11:24.300 --> 00:11:25.339 to be able to see
NOTE Confidence: 0.9611748
00:11:25.339 --> 00:11:26.399 inside the prostate,
NOTE Confidence: 0.9893647
00:11:26.855 --> 00:11:28.455 see where lesions are, and
NOTE Confidence: 0.9893647
00:11:28.455 --> 00:11:30.635 more accurately diagnose
NOTE Confidence: 0.9893647

00:11:30.775 --> 00:11:32.055 the cancer. So by putting
NOTE Confidence: 0.9893647

00:11:32.055 --> 00:11:34.295 needles into the lesion, we're
NOTE Confidence: 0.9893647

00:11:34.295 --> 00:11:35.575 much more accurate with our
NOTE Confidence: 0.9893647

00:11:35.575 --> 00:11:36.075 biopsies,
NOTE Confidence: 0.99963564

00:11:36.615 --> 00:11:37.755 and we know
NOTE Confidence: 0.99975914

00:11:38.055 --> 00:11:39.095 what is there with more
NOTE Confidence: 0.99975914

00:11:39.095 --> 00:11:39.570 confidence.
NOTE Confidence: 0.99338144

00:11:40.050 --> 00:11:41.730 And does MRI and I
NOTE Confidence: 0.99338144

00:11:41.730 --> 00:11:42.850 think you were mentioning this
NOTE Confidence: 0.99338144

00:11:42.850 --> 00:11:45.190 before, does MRI help you
NOTE Confidence: 0.99338144

00:11:45.250 --> 00:11:47.110 decide not to do biopsies
NOTE Confidence: 0.99338144

00:11:47.250 --> 00:11:47.910 at times?
NOTE Confidence: 0.9938915

00:11:48.370 --> 00:11:50.050 It does. Correct. So the
NOTE Confidence: 0.9938915

00:11:50.050 --> 00:11:52.530 the major screening tool remains
NOTE Confidence: 0.9938915

00:11:52.530 --> 00:11:53.995 a PSA blood test. So
NOTE Confidence: 0.9938915

00:11:53.995 --> 00:11:55.595 that is our primary screening

NOTE Confidence: 0.9938915
00:11:55.595 --> 00:11:56.095 tool
NOTE Confidence: 0.99464965
00:11:56.475 --> 00:11:58.015 that is recommended but
NOTE Confidence: 0.99212515
00:11:58.475 --> 00:11:59.995 the guidelines vary. It's a
NOTE Confidence: 0.99212515
00:11:59.995 --> 00:12:02.235 shared decision making, so deciding
NOTE Confidence: 0.99212515
00:12:02.235 --> 00:12:03.035 whether or not a man
NOTE Confidence: 0.99212515
00:12:03.035 --> 00:12:04.015 wants to be screened.
NOTE Confidence: 0.98075956
00:12:04.395 --> 00:12:06.015 But in general, that conversation
NOTE Confidence: 0.98075956
00:12:06.155 --> 00:12:07.835 should happen starting around age
NOTE Confidence: 0.98075956
00:12:07.835 --> 00:12:09.295 fifty to fifty five,
NOTE Confidence: 0.9363325
00:12:09.820 --> 00:12:11.260 and that usually is a
NOTE Confidence: 0.9363325
00:12:11.260 --> 00:12:12.779 PSA blood test. For people
NOTE Confidence: 0.9363325
00:12:12.779 --> 00:12:14.240 with a first degree relative,
NOTE Confidence: 0.9363325
00:12:14.459 --> 00:12:15.200 we would
NOTE Confidence: 0.99931175
00:12:15.579 --> 00:12:18.459 suggest considering earlier prostate cancer
NOTE Confidence: 0.99931175
00:12:18.459 --> 00:12:18.959 screening.
NOTE Confidence: 0.9993464

00:12:19.260 --> 00:12:20.880 And in terms of
NOTE Confidence: 0.9983055
00:12:21.500 --> 00:12:24.160 more accurately diagnosing the cancer,
NOTE Confidence: 0.96581024
00:12:24.675 --> 00:12:26.355 these MRIs help that as
NOTE Confidence: 0.96581024
00:12:26.355 --> 00:12:28.035 well so that if you're
NOTE Confidence: 0.96581024
00:12:28.035 --> 00:12:29.415 planning to do a biopsy,
NOTE Confidence: 0.97578454
00:12:29.795 --> 00:12:30.755 you can do it more
NOTE Confidence: 0.97578454
00:12:30.755 --> 00:12:32.195 accurately with the use of
NOTE Confidence: 0.97578454
00:12:32.195 --> 00:12:33.955 MRI.
NOTE Confidence: 0.97578454
00:12:33.955 --> 00:12:35.315 Correct, the MRI allows us to look
NOTE Confidence: 0.97578454
00:12:35.315 --> 00:12:36.595 inside the prostate. We can
NOTE Confidence: 0.97578454
00:12:36.595 --> 00:12:37.635 see where a lesion is.
NOTE Confidence: 0.97578454
00:12:37.635 --> 00:12:38.695 We can then
NOTE Confidence: 0.98674995
00:12:39.080 --> 00:12:40.440 typically, have a 3D
NOTE Confidence: 0.98674995
00:12:40.440 --> 00:12:42.040 modeling where we combine
NOTE Confidence: 0.98674995
00:12:42.040 --> 00:12:43.640 the MRI with our real
NOTE Confidence: 0.98674995
00:12:43.640 --> 00:12:45.320 time ultrasound. It allows us

NOTE Confidence: 0.98674995
00:12:45.320 --> 00:12:46.360 to guide the needles for
NOTE Confidence: 0.98674995
00:12:46.360 --> 00:12:47.179 a more accurate
NOTE Confidence: 0.999844
00:12:47.559 --> 00:12:48.059 biopsy.
NOTE Confidence: 0.9775152
00:12:48.520 --> 00:12:50.120 And finally, before we take
NOTE Confidence: 0.9775152
00:12:50.120 --> 00:12:51.820 just a a brief break,
NOTE Confidence: 0.96022177
00:12:53.195 --> 00:12:54.635 I mentioned earlier that there
NOTE Confidence: 0.96022177
00:12:54.635 --> 00:12:55.515 are more than two hundred
NOTE Confidence: 0.96022177
00:12:55.515 --> 00:12:56.815 and fifty thousand cases,
NOTE Confidence: 0.9320914
00:12:57.434 --> 00:12:57.934 but,
NOTE Confidence: 0.99260634
00:12:59.035 --> 00:13:00.235 many of those are, of
NOTE Confidence: 0.99260634
00:13:00.235 --> 00:13:00.735 course,
NOTE Confidence: 0.9993653
00:13:01.115 --> 00:13:02.095 cases where
NOTE Confidence: 0.99828845
00:13:02.395 --> 00:13:03.915 a man's life is not
NOTE Confidence: 0.99828845
00:13:03.915 --> 00:13:04.415 threatened.
NOTE Confidence: 0.97148323
00:13:05.769 --> 00:13:07.769 How many cases of prostate
NOTE Confidence: 0.97148323

00:13:07.769 --> 00:13:09.209 cancer are there where you're
NOTE Confidence: 0.97148323

00:13:09.209 --> 00:13:10.029 more worried
NOTE Confidence: 0.99942756

00:13:10.730 --> 00:13:11.230 about
NOTE Confidence: 0.9299704

00:13:12.490 --> 00:13:14.350 the potential impact on survival?
NOTE Confidence: 0.9299704

00:13:14.649 --> 00:13:15.690 For that matter, how many
NOTE Confidence: 0.9299704

00:13:15.690 --> 00:13:16.670 deaths a year?
NOTE Confidence: 0.97115624

00:13:17.690 --> 00:13:18.890 Yes. So that is
NOTE Confidence: 0.97115624

00:13:18.890 --> 00:13:19.929 a very good question. I
NOTE Confidence: 0.97115624

00:13:19.929 --> 00:13:21.675 mean, I don't know the
NOTE Confidence: 0.97115624

00:13:21.675 --> 00:13:22.954 exact number of deaths off
NOTE Confidence: 0.97115624

00:13:22.954 --> 00:13:23.675 the top of my head.
NOTE Confidence: 0.97115624

00:13:23.675 --> 00:13:25.355 It is pretty significant, though.
NOTE Confidence: 0.97115624

00:13:25.355 --> 00:13:26.475 The last number I recall
NOTE Confidence: 0.97115624

00:13:26.475 --> 00:13:27.995 was around probably twenty seven
NOTE Confidence: 0.97115624

00:13:27.995 --> 00:13:28.495 thousand.
NOTE Confidence: 0.98285747

00:13:29.675 --> 00:13:31.115 It is a percentage of

NOTE Confidence: 0.98285747

00:13:31.115 --> 00:13:31.915 of the men who were

NOTE Confidence: 0.98285747

00:13:31.915 --> 00:13:32.415 diagnosed.

NOTE Confidence: 0.9572679

00:13:32.840 --> 00:13:34.300 It's really those with metastatic

NOTE Confidence: 0.9572679

00:13:34.520 --> 00:13:36.520 prostate cancer that

NOTE Confidence: 0.9572679

00:13:36.520 --> 00:13:38.280 we really worry about.

NOTE Confidence: 0.9572679

00:13:38.280 --> 00:13:40.040 And that's why screening and

NOTE Confidence: 0.9572679

00:13:40.040 --> 00:13:41.640 early detection is really, really

NOTE Confidence: 0.9572679

00:13:41.640 --> 00:13:43.720 important. Finding this cancer before

NOTE Confidence: 0.9572679

00:13:43.720 --> 00:13:44.380 its metastatic

NOTE Confidence: 0.9453553

00:13:44.920 --> 00:13:46.940 allows us to intervene.

NOTE Confidence: 0.9514239

00:13:48.384 --> 00:13:49.204 And in

NOTE Confidence: 0.984626

00:13:49.505 --> 00:13:50.785 many, many, of those

NOTE Confidence: 0.984626

00:13:50.785 --> 00:13:52.144 men, we can prevent the

NOTE Confidence: 0.984626

00:13:52.144 --> 00:13:54.225 development of metastatic disease. So,

NOTE Confidence: 0.984626

00:13:54.225 --> 00:13:56.644 again, a disease where sometimes

NOTE Confidence: 0.984626

00:13:56.865 --> 00:13:58.545 it's just very slow growing
NOTE Confidence: 0.984626

00:13:58.545 --> 00:13:59.285 and sometimes
NOTE Confidence: 0.9888826

00:13:59.904 --> 00:14:01.845 more aggressive and still
NOTE Confidence: 0.9888826

00:14:01.985 --> 00:14:03.045 a disease that
NOTE Confidence: 0.9764054

00:14:03.630 --> 00:14:04.990 threatens quite a number of
NOTE Confidence: 0.9764054

00:14:04.990 --> 00:14:06.750 people's lives. Well, we're gonna
NOTE Confidence: 0.9764054

00:14:06.750 --> 00:14:08.110 take just a brief
NOTE Confidence: 0.9764054

00:14:08.110 --> 00:14:09.710 break and we'll be back
NOTE Confidence: 0.9764054

00:14:09.710 --> 00:14:12.130 and continue our discussion about
NOTE Confidence: 0.9764054

00:14:12.190 --> 00:14:14.110 prostate cancer with doctor Preston
NOTE Confidence: 0.9764054

00:14:14.110 --> 00:14:14.610 Sprenkle.
NOTE Confidence: 0.93937266

00:14:15.150 --> 00:14:16.910 Funding for Yale Cancer Answers
NOTE Confidence: 0.93937266

00:14:16.910 --> 00:14:18.770 comes from Smilow Cancer Hospital,
NOTE Confidence: 0.92589056

00:14:19.285 --> 00:14:20.405 where they will be hosting
NOTE Confidence: 0.92589056

00:14:20.405 --> 00:14:22.185 an in person Cancer Survivors
NOTE Confidence: 0.92589056

00:14:22.325 --> 00:14:24.185 Day celebration on June fifth.

NOTE Confidence: 0.98482674

00:14:24.565 --> 00:14:26.425 For details and to register,

NOTE Confidence: 0.98482674

00:14:26.485 --> 00:14:27.945 please reach out to canceranswers

NOTE Confidence: 0.86824965

00:14:28.405 --> 00:14:29.705 at yale dot edu.

NOTE Confidence: 0.9198936

00:14:32.000 --> 00:14:33.200 Breast cancer is one of

NOTE Confidence: 0.9198936

00:14:33.200 --> 00:14:34.640 the most common cancers in

NOTE Confidence: 0.9198936

00:14:34.640 --> 00:14:36.980 women. In Connecticut alone, approximately

NOTE Confidence: 0.9198936

00:14:37.200 --> 00:14:38.480 three thousand five hundred women

NOTE Confidence: 0.9198936

00:14:38.480 --> 00:14:39.839 will be diagnosed with breast

NOTE Confidence: 0.9198936

00:14:39.839 --> 00:14:41.680 cancer this year, but there

NOTE Confidence: 0.9198936

00:14:41.680 --> 00:14:43.360 is hope thanks to earlier

NOTE Confidence: 0.9198936

00:14:43.360 --> 00:14:44.946 detection, non invasive treatments, and

NOTE Confidence: 0.9198936

00:14:44.946 --> 00:14:45.113 the development of novel therapies

NOTE Confidence: 0.9198936

00:14:45.113 --> 00:14:45.279 to fight breast cancer. Women

NOTE Confidence: 0.9198936

00:14:45.279 --> 00:14:45.860 should schedule

00:14:50.035 --> 00:14:51.254 a baseline mammogram

NOTE Confidence: 0.94690096

00:14:51.555 --> 00:14:52.754 beginning at age forty or

NOTE Confidence: 0.94690096

00:14:52.754 --> 00:14:54.115 earlier if they have risk

NOTE Confidence: 0.94690096

00:14:54.115 --> 00:14:56.134 factors associated with the disease.

NOTE Confidence: 0.95951134

00:14:56.595 --> 00:14:58.554 With screening, early detection, and

NOTE Confidence: 0.95951134

00:14:58.554 --> 00:14:59.095 a healthy

NOTE Confidence: 0.9850562

00:14:59.475 --> 00:15:01.074 lifestyle, breast cancer can be

NOTE Confidence: 0.9850562

00:15:01.074 --> 00:15:01.574 defeated.

NOTE Confidence: 0.9453213

00:15:02.250 --> 00:15:03.930 Clinical trials are currently underway

NOTE Confidence: 0.9453213

00:15:03.930 --> 00:15:06.490 at federally designated comprehensive cancer

NOTE Confidence: 0.9453213

00:15:06.490 --> 00:15:08.330 centers, such as Yale Cancer

NOTE Confidence: 0.9453213

00:15:08.330 --> 00:15:10.010 Center and Smilow Cancer

NOTE Confidence: 0.9453213

00:15:10.010 --> 00:15:10.510 Hospital,

NOTE Confidence: 0.9986832

00:15:10.890 --> 00:15:12.570 to make innovative new treatments

NOTE Confidence: 0.9986832

00:15:12.570 --> 00:15:13.710 available to patients.

NOTE Confidence: 0.9611438

00:15:14.305 --> 00:15:15.525 Digital breast tomosynthesis

NOTE Confidence: 0.97770786

00:15:16.065 --> 00:15:17.745 or three d mammography is

NOTE Confidence: 0.97770786

00:15:17.745 --> 00:15:20.245 also transforming breast cancer screening

NOTE Confidence: 0.9950596

00:15:20.545 --> 00:15:23.445 by significantly reducing unnecessary procedures

NOTE Confidence: 0.9950596

00:15:23.505 --> 00:15:25.045 while picking up more cancers.

NOTE Confidence: 0.97023076

00:15:25.665 --> 00:15:27.345 More information is available at

NOTE Confidence: 0.97023076

00:15:27.345 --> 00:15:29.205 yale cancer center dot org.

NOTE Confidence: 0.97023076

00:15:29.310 --> 00:15:31.070 You're listening to Connecticut Public

NOTE Confidence: 0.97023076

00:15:31.070 --> 00:15:31.570 Radio.

NOTE Confidence: 0.97758037

00:15:32.430 --> 00:15:33.790 Good evening again. This is

NOTE Confidence: 0.97758037

00:15:33.790 --> 00:15:35.470 Eric Winer with Yale Cancer

NOTE Confidence: 0.97758037

00:15:35.470 --> 00:15:37.470 Answers. I'm joined tonight by

NOTE Confidence: 0.97758037

00:15:37.470 --> 00:15:40.050 doctor Preston Sprenkle, a urologic

NOTE Confidence: 0.97758037

00:15:40.350 --> 00:15:40.850 oncologist

NOTE Confidence: 0.9977281

00:15:41.625 --> 00:15:43.465 and an associate professor in

NOTE Confidence: 0.9977281

00:15:43.465 --> 00:15:45.385 urology here at Yale School

NOTE Confidence: 0.9977281

00:15:45.385 --> 00:15:46.045 of Medicine.

NOTE Confidence: 0.9976537

00:15:46.745 --> 00:15:48.105 We've been talking about prostate

NOTE Confidence: 0.9976537
00:15:48.105 --> 00:15:49.145 cancer. We're gonna move on
NOTE Confidence: 0.9976537
00:15:49.145 --> 00:15:50.025 and talk a little bit
NOTE Confidence: 0.9976537
00:15:50.025 --> 00:15:52.105 about testicular cancer in just
NOTE Confidence: 0.9976537
00:15:52.105 --> 00:15:52.925 a few minutes.
NOTE Confidence: 0.9956211
00:15:53.385 --> 00:15:55.200 But, before we leave the
NOTE Confidence: 0.9956211
00:15:55.200 --> 00:15:56.960 area of prostate cancer, I
NOTE Confidence: 0.9956211
00:15:56.960 --> 00:15:58.020 wanna talk about
NOTE Confidence: 0.9996636
00:15:58.400 --> 00:15:58.900 this
NOTE Confidence: 0.8941442
00:15:59.680 --> 00:16:00.500 new approach,
NOTE Confidence: 0.99551594
00:16:01.600 --> 00:16:03.920 that involves focal therapy
NOTE Confidence: 0.99551594
00:16:03.920 --> 00:16:05.775 or doing something less than
NOTE Confidence: 0.99551594
00:16:06.175 --> 00:16:07.955 treating the entire prostate,
NOTE Confidence: 0.9765827
00:16:08.815 --> 00:16:10.515 when a man has cancer.
NOTE Confidence: 0.9823351
00:16:10.975 --> 00:16:11.455 And,
NOTE Confidence: 0.9902267
00:16:11.855 --> 00:16:13.295 maybe you can just touch
NOTE Confidence: 0.9902267

00:16:13.295 --> 00:16:14.335 on this and how long
NOTE Confidence: 0.9902267

00:16:14.335 --> 00:16:15.775 it's been going on and
00:16:16.895 --> 00:16:18.835 how focal therapy is done.
NOTE Confidence: 0.9998509

00:16:19.550 --> 00:16:20.589 Sure. Thank you.
NOTE Confidence: 0.95542884

00:16:21.390 --> 00:16:21.890 So
NOTE Confidence: 0.9535659

00:16:22.430 --> 00:16:23.730 focal therapy is an
NOTE Confidence: 0.97334075

00:16:24.670 --> 00:16:27.149 exciting new intervention. It's actually
NOTE Confidence: 0.97334075

00:16:27.149 --> 00:16:28.350 not that new. There have
NOTE Confidence: 0.97334075

00:16:28.350 --> 00:16:29.330 been ablation
NOTE Confidence: 0.999511

00:16:29.709 --> 00:16:30.209 therapies
NOTE Confidence: 0.9840774

00:16:30.830 --> 00:16:32.750 for prostate cancer for decades.
NOTE Confidence: 0.9840774

00:16:32.750 --> 00:16:33.630 So one of the early
NOTE Confidence: 0.9840774

00:16:33.630 --> 00:16:34.845 ones was cryoablation
NOTE Confidence: 0.99738485

00:16:35.145 --> 00:16:37.165 or using cold energy to
NOTE Confidence: 0.99738336

00:16:37.545 --> 00:16:39.165 destroy prostate tissue.
NOTE Confidence: 0.999465

00:16:40.345 --> 00:16:40.845 Initially,
NOTE Confidence: 0.9888004

00:16:41.305 --> 00:16:42.825 we were doing whole prostate
NOTE Confidence: 0.9888004

00:16:42.825 --> 00:16:44.585 treatments with this approach. And
NOTE Confidence: 0.9888004

00:16:44.585 --> 00:16:46.185 at that time, it did
NOTE Confidence: 0.9888004

00:16:46.185 --> 00:16:48.285 have less of the impact on
00:16:49.600 --> 00:16:52.160 urinary continence than prostatectomy, and
NOTE Confidence: 0.94550997

00:16:52.160 --> 00:16:54.000 so it was used not
NOTE Confidence: 0.94550997

00:16:54.000 --> 00:16:54.500 infrequently.
NOTE Confidence: 0.9985699

00:16:55.360 --> 00:16:57.380 As we gained more information
NOTE Confidence: 0.9985699

00:16:57.600 --> 00:16:59.200 using MRI to
NOTE Confidence: 0.9985699

00:16:59.200 --> 00:17:00.960 be able to localize prostate
NOTE Confidence: 0.9985699

00:17:00.960 --> 00:17:02.420 cancer within the prostate,
NOTE Confidence: 0.9795487

00:17:03.045 --> 00:17:04.645 the idea of focal therapy
NOTE Confidence: 0.9795487

00:17:04.645 --> 00:17:05.845 or treating just part of
NOTE Confidence: 0.9795487

00:17:05.845 --> 00:17:07.125 the prostate where the cancer
NOTE Confidence: 0.9795487

00:17:07.125 --> 00:17:08.744 is located
NOTE Confidence: 0.96063113

00:17:10.645 --> 00:17:12.244 became of more interest. And
NOTE Confidence: 0.96063113

00:17:12.244 --> 00:17:13.845 this is something you mentioned in

NOTE Confidence: 0.96063113

00:17:13.845 --> 00:17:15.225 breast cancer. You do lumpectomy.

NOTE Confidence: 0.96063113

00:17:15.440 --> 00:17:16.799 In kidney cancer, we remove

NOTE Confidence: 0.96063113

00:17:16.799 --> 00:17:17.840 just the tumor. We don't

NOTE Confidence: 0.96063113

00:17:17.840 --> 00:17:19.540 remove the whole organ necessarily,

NOTE Confidence: 0.9435423

00:17:20.480 --> 00:17:21.760 anymore now that we

NOTE Confidence: 0.9435423

00:17:21.760 --> 00:17:23.220 can localize where the cancer

NOTE Confidence: 0.99692875

00:17:24.000 --> 00:17:25.119 is in

NOTE Confidence: 0.99692875

00:17:25.119 --> 00:17:26.240 the gland or in the organ.

00:17:27.575 --> 00:17:29.175 So focal therapy for prostate

NOTE Confidence: 0.9882788

00:17:29.175 --> 00:17:31.335 cancer has evolved. I've personally

NOTE Confidence: 0.9882788

00:17:31.335 --> 00:17:32.375 been doing that for almost

NOTE Confidence: 0.9882788

00:17:32.375 --> 00:17:33.994 ten years, with a combination

NOTE Confidence: 0.9882788

00:17:34.055 --> 00:17:34.795 of cryoablation

NOTE Confidence: 0.9993397

00:17:35.335 --> 00:17:36.155 and irreversible

NOTE Confidence: 0.9962789

00:17:36.695 --> 00:17:37.195 electroporation.

NOTE Confidence: 0.9997855

00:17:37.494 --> 00:17:38.775 These are both needle based
NOTE Confidence: 0.9997855

00:17:38.775 --> 00:17:39.275 technologies
NOTE Confidence: 0.9999095

00:17:40.109 --> 00:17:40.609 where
NOTE Confidence: 0.9954196

00:17:40.910 --> 00:17:42.450 we can see the prostate
NOTE Confidence: 0.96500665

00:17:43.070 --> 00:17:44.830 with the MRI. We localize
NOTE Confidence: 0.96500665

00:17:44.830 --> 00:17:46.369 it with a targeted biopsy.
NOTE Confidence: 0.96500665

00:17:46.430 --> 00:17:47.630 We localize the cancer within
NOTE Confidence: 0.96500665

00:17:47.630 --> 00:17:48.210 the prostate,
NOTE Confidence: 0.991324

00:17:48.670 --> 00:17:49.630 and then we can use
NOTE Confidence: 0.991324

00:17:49.630 --> 00:17:51.230 those images and information to
NOTE Confidence: 0.991324

00:17:51.230 --> 00:17:53.115 place needles into the prostate
NOTE Confidence: 0.991324

00:17:53.255 --> 00:17:54.135 in the area where the
NOTE Confidence: 0.991324

00:17:54.135 --> 00:17:55.734 cancer is located and really
NOTE Confidence: 0.991324

00:17:55.734 --> 00:17:57.355 destroy that prostate tissue.
NOTE Confidence: 0.9982741

00:17:58.135 --> 00:17:59.755 By leaving the urethra,
NOTE Confidence: 0.9992201

00:18:00.135 --> 00:18:01.575 leaving the other side of

NOTE Confidence: 0.9992201
00:18:01.575 --> 00:18:02.715 the prostate alone,
NOTE Confidence: 0.99395585
00:18:03.335 --> 00:18:05.700 even potentially leaving both nerve
NOTE Confidence: 0.99395585
00:18:05.700 --> 00:18:07.780 bundles alone, we see much
NOTE Confidence: 0.99395585
00:18:07.780 --> 00:18:09.540 better preservation of quality of
NOTE Confidence: 0.99395585
00:18:09.540 --> 00:18:10.820 life in terms of sexual
NOTE Confidence: 0.99395585
00:18:10.820 --> 00:18:12.119 function, urinary function.
NOTE Confidence: 0.99968946
00:18:12.580 --> 00:18:13.080 Now
NOTE Confidence: 0.9962015
00:18:13.380 --> 00:18:14.580 while I've been doing these
NOTE Confidence: 0.9962015
00:18:14.580 --> 00:18:15.859 technologies for ten years, they
NOTE Confidence: 0.9962015
00:18:15.859 --> 00:18:18.020 are not widely accepted or
NOTE Confidence: 0.9962015
00:18:18.020 --> 00:18:19.960 widely done around the country.
NOTE Confidence: 0.9962015
00:18:20.179 --> 00:18:22.115 The technologies are still considered
NOTE Confidence: 0.9962015
00:18:22.335 --> 00:18:24.575 investigational in many areas, and
NOTE Confidence: 0.9962015
00:18:24.575 --> 00:18:25.535 so we do this as
NOTE Confidence: 0.9962015
00:18:25.535 --> 00:18:27.795 part of an IRB approved
NOTE Confidence: 0.9962015

00:18:27.935 --> 00:18:30.115 research registry. We're still tracking

NOTE Confidence: 0.9891966

00:18:30.575 --> 00:18:31.234 the outcomes.

NOTE Confidence: 0.99034405

00:18:32.095 --> 00:18:33.295 We're making sure that it

NOTE Confidence: 0.99034405

00:18:33.295 --> 00:18:34.335 is safe. We're making sure

NOTE Confidence: 0.99034405

00:18:34.335 --> 00:18:35.475 that the cancer control

NOTE Confidence: 0.9972802

00:18:35.929 --> 00:18:37.309 is adequate and appropriate.

NOTE Confidence: 0.9892626

00:18:38.090 --> 00:18:38.970 So I think it is

NOTE Confidence: 0.9892626

00:18:38.970 --> 00:18:40.490 very exciting, but it's

NOTE Confidence: 0.9892626

00:18:40.490 --> 00:18:42.010 not something that I think

NOTE Confidence: 0.9892626

00:18:42.010 --> 00:18:43.850 at this point, is appropriate

NOTE Confidence: 0.9892626

00:18:43.850 --> 00:18:44.890 for just anyone to be doing.

NOTE Confidence: 0.9892626

00:18:44.890 --> 00:18:47.290 And reading the tea

NOTE Confidence: 0.9892626

00:18:47.290 --> 00:18:48.570 leaves, do you think that

NOTE Confidence: 0.9892626

00:18:48.570 --> 00:18:50.250 this is something that will be

00:18:51.544 --> 00:18:53.225 done more widely in another

NOTE Confidence: 0.9997489

00:18:53.225 --> 00:18:54.445 five to ten years?

NOTE Confidence: 0.9496159

00:18:54.825 --> 00:18:55.945 I believe it will. We
NOTE Confidence: 0.9496159

00:18:55.945 --> 00:18:57.625 just had our
NOTE Confidence: 0.9496159

00:18:57.625 --> 00:18:59.164 International American Urological
NOTE Confidence: 0.9975466

00:18:59.465 --> 00:19:00.605 Association meeting.
NOTE Confidence: 0.99881476

00:19:01.065 --> 00:19:02.905 It was presented as one
NOTE Confidence: 0.99881476

00:19:02.905 --> 00:19:03.645 of the plenary
NOTE Confidence: 0.987091

00:19:04.105 --> 00:19:06.200 lectures, and there is definitely
NOTE Confidence: 0.987091

00:19:06.260 --> 00:19:07.320 growing interest.
NOTE Confidence: 0.973843

00:19:07.940 --> 00:19:08.740 Those of us who've been
NOTE Confidence: 0.973843

00:19:08.740 --> 00:19:09.619 doing it for a while
NOTE Confidence: 0.973843

00:19:09.619 --> 00:19:11.000 do think it is approaching
NOTE Confidence: 0.973843

00:19:11.299 --> 00:19:12.100 sort of what we call
NOTE Confidence: 0.973843

00:19:12.100 --> 00:19:13.220 primetime.
NOTE Confidence: 0.973843

00:19:13.220 --> 00:19:14.600 It is almost ready for
NOTE Confidence: 0.9997738

00:19:15.059 --> 00:19:15.559 wider
NOTE Confidence: 0.99659777

00:19:15.940 --> 00:19:17.080 distribution and dissemination

NOTE Confidence: 0.99674356
00:19:17.380 --> 00:19:19.705 as the quality controls
NOTE Confidence: 0.99674356
00:19:19.705 --> 00:19:21.065 are being better put into
NOTE Confidence: 0.99674356
00:19:21.065 --> 00:19:21.565 place.
NOTE Confidence: 0.9972937
00:19:22.184 --> 00:19:23.244 But just
NOTE Confidence: 0.8757801
00:19:24.505 --> 00:19:26.605 an educated guess, this is
NOTE Confidence: 0.99945366
00:19:26.905 --> 00:19:28.265 not something that is for
NOTE Confidence: 0.99945366
00:19:28.265 --> 00:19:29.565 a patient who has
NOTE Confidence: 0.9651471
00:19:29.865 --> 00:19:32.184 more locally advanced prostate cancer
NOTE Confidence: 0.9651471
00:19:32.184 --> 00:19:32.684 or
NOTE Confidence: 0.98766893
00:19:33.330 --> 00:19:35.250 maybe somebody who has a
NOTE Confidence: 0.98766893
00:19:35.250 --> 00:19:37.270 more aggressive subtype of prostate
NOTE Confidence: 0.98766893
00:19:37.330 --> 00:19:37.830 cancer?
NOTE Confidence: 0.99908674
00:19:38.289 --> 00:19:39.490 You're absolutely right. I mean,
NOTE Confidence: 0.99908674
00:19:39.490 --> 00:19:41.169 at this point,
00:19:42.049 --> 00:19:43.169 this is not for everyone.
NOTE Confidence: 0.95570505
00:19:43.169 --> 00:19:44.369 So an ablation therapy is

NOTE Confidence: 0.95570505

00:19:44.369 --> 00:19:45.090 not for when there are

NOTE Confidence: 0.95570505

00:19:45.090 --> 00:19:46.565 a lot of anatomic considerations

NOTE Confidence: 0.99684316

00:19:46.945 --> 00:19:49.125 in addition to cancer aggressiveness

NOTE Confidence: 0.99684316

00:19:49.345 --> 00:19:49.845 considerations.

NOTE Confidence: 0.99060464

00:19:50.465 --> 00:19:51.905 We currently only recommend this

NOTE Confidence: 0.99060464

00:19:51.905 --> 00:19:53.365 really for men with intermediate

NOTE Confidence: 0.99060464

00:19:53.664 --> 00:19:55.424 risk prostate cancer. There is

NOTE Confidence: 0.99060464

00:19:55.424 --> 00:19:56.945 not a role at this

NOTE Confidence: 0.99060464

00:19:56.945 --> 00:19:57.845 time for

NOTE Confidence: 0.9621731

00:19:58.230 --> 00:19:59.990 treating high risk disease, although

NOTE Confidence: 0.9621731

00:19:59.990 --> 00:20:01.450 there are some clinical trials

NOTE Confidence: 0.939749

00:20:03.030 --> 00:20:04.330 evolving in those areas.

NOTE Confidence: 0.99803454

00:20:04.790 --> 00:20:06.230 So even as part of

NOTE Confidence: 0.99803454

00:20:06.230 --> 00:20:06.890 the research,

NOTE Confidence: 0.9288256

00:20:07.270 --> 00:20:08.390 one has to be quite

NOTE Confidence: 0.9288256

00:20:08.390 --> 00:20:08.890 selective.
NOTE Confidence: 0.9998682
00:20:09.350 --> 00:20:10.250 That is correct.
NOTE Confidence: 0.99888206
00:20:10.684 --> 00:20:11.184 Good.
NOTE Confidence: 0.9837036
00:20:11.885 --> 00:20:13.105 And then finally,
NOTE Confidence: 0.9799845
00:20:14.684 --> 00:20:16.304 there are still many men
NOTE Confidence: 0.9799845
00:20:16.365 --> 00:20:17.484 who need to have their
NOTE Confidence: 0.9799845
00:20:17.484 --> 00:20:19.725 prostate removed when diagnosed with
NOTE Confidence: 0.9799845
00:20:19.725 --> 00:20:20.705 prostate cancer.
NOTE Confidence: 0.9852448
00:20:21.885 --> 00:20:24.205 And sometimes an alternative is
NOTE Confidence: 0.9852448
00:20:24.205 --> 00:20:25.405 radiation. How do you make
NOTE Confidence: 0.9852448
00:20:25.405 --> 00:20:26.225 those decisions?
NOTE Confidence: 0.989159
00:20:27.059 --> 00:20:29.140 So radiation and surgery very
NOTE Confidence: 0.989159
00:20:29.140 --> 00:20:30.820 often are considered
NOTE Confidence: 0.989159
00:20:30.820 --> 00:20:32.740 to have pretty equivalent cancer
NOTE Confidence: 0.989159
00:20:32.740 --> 00:20:33.240 control.
NOTE Confidence: 0.99695164
00:20:33.700 --> 00:20:34.980 So it largely is a

NOTE Confidence: 0.99695164
00:20:34.980 --> 00:20:36.500 very personal decision of the
NOTE Confidence: 0.99695164
00:20:36.500 --> 00:20:37.000 patient
NOTE Confidence: 0.99044424
00:20:37.619 --> 00:20:39.220 and comparing the quality of
NOTE Confidence: 0.99044424
00:20:39.220 --> 00:20:41.554 life impact of the different
NOTE Confidence: 0.99044424
00:20:41.615 --> 00:20:42.595 treatment approaches.
NOTE Confidence: 0.9805416
00:20:44.174 --> 00:20:45.794 It's a long discussion,
NOTE Confidence: 0.9860584
00:20:46.095 --> 00:20:47.294 but in brief, we sort
NOTE Confidence: 0.9860584
00:20:47.294 --> 00:20:48.575 of compare the impact on
NOTE Confidence: 0.9860584
00:20:48.575 --> 00:20:50.494 urinary function, impact on sexual
NOTE Confidence: 0.9860584
00:20:50.494 --> 00:20:52.494 function, the duration of treatment,
NOTE Confidence: 0.9860584
00:20:52.494 --> 00:20:53.955 the recovery from treatment,
NOTE Confidence: 0.9568007
00:20:54.660 --> 00:20:55.380 what are some of the
NOTE Confidence: 0.9568007
00:20:55.380 --> 00:20:56.820 long term consequences that you
NOTE Confidence: 0.9568007
00:20:56.820 --> 00:20:58.100 can expect from the treatment.
NOTE Confidence: 0.9568007
00:20:58.100 --> 00:20:58.980 But it often is
NOTE Confidence: 0.9568007

00:20:58.980 --> 00:21:00.260 focused on quality of life
NOTE Confidence: 0.9568007

00:21:00.260 --> 00:21:00.760 factors,
NOTE Confidence: 0.9997769

00:21:01.220 --> 00:21:02.900 since the cancer control is
NOTE Confidence: 0.9997769

00:21:02.900 --> 00:21:04.119 relatively similar.
00:21:06.100 --> 00:21:07.860 Well, we're gonna move
NOTE Confidence: 0.9992962

00:21:07.860 --> 00:21:09.300 on and talk a little
NOTE Confidence: 0.9992962

00:21:09.300 --> 00:21:11.615 bit about testicular cancer.
NOTE Confidence: 0.99270546

00:21:12.315 --> 00:21:13.535 Testicular cancer,
NOTE Confidence: 0.98790455

00:21:13.994 --> 00:21:16.415 unlike prostate cancer, which predominantly
NOTE Confidence: 0.9990897

00:21:17.035 --> 00:21:18.655 is a disease in
NOTE Confidence: 0.9639503

00:21:19.515 --> 00:21:20.875 middle aged or older men,
NOTE Confidence: 0.9639503

00:21:20.875 --> 00:21:22.715 though it can occasionally happen
NOTE Confidence: 0.9639503

00:21:22.715 --> 00:21:24.475 in people in their forties
NOTE Confidence: 0.9639503

00:21:24.475 --> 00:21:26.390 and younger, but quite rarely.
NOTE Confidence: 0.97627294

00:21:27.250 --> 00:21:29.109 Testicular cancer is quite different.
NOTE Confidence: 0.9890253

00:21:30.210 --> 00:21:30.710 There
NOTE Confidence: 0.9924084

00:21:31.490 --> 00:21:33.330 are under ten thousand cases

NOTE Confidence: 0.9924084

00:21:33.330 --> 00:21:34.550 a year in the US,

NOTE Confidence: 0.9924084

00:21:34.690 --> 00:21:36.210 and the average age is

NOTE Confidence: 0.9924084

00:21:36.210 --> 00:21:37.109 thirty three.

NOTE Confidence: 0.9942478

00:21:37.410 --> 00:21:38.790 So this is a cancer

NOTE Confidence: 0.9942478

00:21:38.850 --> 00:21:40.150 of young men.

NOTE Confidence: 0.89629424

00:21:40.934 --> 00:21:41.414 And,

NOTE Confidence: 0.9967704

00:21:42.375 --> 00:21:43.515 maybe you can just

NOTE Confidence: 0.9998072

00:21:44.054 --> 00:21:45.835 talk a little bit about

NOTE Confidence: 0.98299474

00:21:46.534 --> 00:21:48.475 what often brings someone in

NOTE Confidence: 0.9945508

00:21:49.015 --> 00:21:50.534 with a new diagnosis of

NOTE Confidence: 0.9945508

00:21:50.534 --> 00:21:51.674 testicular cancer.

NOTE Confidence: 0.9939675

00:21:52.215 --> 00:21:53.575 In general, there isn't a

NOTE Confidence: 0.9939675

00:21:53.575 --> 00:21:55.095 lot of screening that goes on.

00:21:56.120 --> 00:21:57.580 Correct. So there

NOTE Confidence: 0.998975

00:21:57.960 --> 00:21:59.100 is not a

NOTE Confidence: 0.97296435

00:21:59.960 --> 00:22:02.040 systematic screening that is done
NOTE Confidence: 0.97296435

00:22:02.040 --> 00:22:03.160 by a health care provider
NOTE Confidence: 0.97296435

00:22:03.160 --> 00:22:04.140 typically, although
NOTE Confidence: 0.9185316

00:22:04.760 --> 00:22:06.620 and that's largely because testicular
NOTE Confidence: 0.9185316

00:22:06.760 --> 00:22:07.260 cancers,
NOTE Confidence: 0.99372166

00:22:07.560 --> 00:22:08.940 when they do occur,
NOTE Confidence: 0.9998556

00:22:09.274 --> 00:22:10.335 tend to be very
NOTE Confidence: 0.9964168

00:22:10.794 --> 00:22:12.955 fast growing and present rather
NOTE Confidence: 0.9964168

00:22:12.955 --> 00:22:13.455 quickly.
NOTE Confidence: 0.99435127

00:22:14.154 --> 00:22:15.595 There is screening that can
NOTE Confidence: 0.99435127

00:22:15.595 --> 00:22:17.034 be done. So young men
NOTE Confidence: 0.99435127

00:22:17.034 --> 00:22:18.975 starting in their late teens
NOTE Confidence: 0.99435127

00:22:19.115 --> 00:22:20.174 should do testicular
NOTE Confidence: 0.9637613

00:22:20.475 --> 00:22:22.315 self exams probably on a
NOTE Confidence: 0.9637613

00:22:22.315 --> 00:22:23.294 monthly basis.
NOTE Confidence: 0.9967032

00:22:24.000 --> 00:22:25.840 And that is honestly how

NOTE Confidence: 0.9967032
00:22:25.840 --> 00:22:26.960 men present. So it is
NOTE Confidence: 0.9967032
00:22:26.960 --> 00:22:29.119 a new mass that they
NOTE Confidence: 0.9967032
00:22:29.119 --> 00:22:31.200 feel in the testicle or
NOTE Confidence: 0.9967032
00:22:31.200 --> 00:22:32.020 in their scrotum.
NOTE Confidence: 0.97078997
00:22:32.480 --> 00:22:33.680 That is the most common
NOTE Confidence: 0.97078997
00:22:33.680 --> 00:22:34.180 presentation.
NOTE Confidence: 0.9877685
00:22:35.865 --> 00:22:37.145 And it can be picked
NOTE Confidence: 0.9877685
00:22:37.145 --> 00:22:38.265 up early if someone is
NOTE Confidence: 0.9877685
00:22:38.265 --> 00:22:40.425 doing a routine testicular self
NOTE Confidence: 0.9877685
00:22:40.425 --> 00:22:42.425 exam. But I'm gonna guess
NOTE Confidence: 0.9877685
00:22:42.425 --> 00:22:44.185 that most young men don't
NOTE Confidence: 0.9877685
00:22:44.185 --> 00:22:45.705 do that routinely and that
NOTE Confidence: 0.9877685
00:22:45.705 --> 00:22:47.305 when they find this, it's
NOTE Confidence: 0.9877685
00:22:47.305 --> 00:22:47.805 just
NOTE Confidence: 0.9899133
00:22:48.345 --> 00:22:49.565 almost an accident.
NOTE Confidence: 0.9667342

00:22:51.000 --> 00:22:52.520 That is often the case.
NOTE Confidence: 0.9667342

00:22:52.520 --> 00:22:53.980 Yes. And that's why we
NOTE Confidence: 0.9667342

00:22:54.119 --> 00:22:55.260 attempt to
NOTE Confidence: 0.9989055

00:22:56.760 --> 00:22:59.100 engage young men and pediatricians
NOTE Confidence: 0.9558761

00:22:59.480 --> 00:23:00.840 to educate young men. And
NOTE Confidence: 0.9558761

00:23:00.840 --> 00:23:01.880 there is
NOTE Confidence: 0.9558761

00:23:01.880 --> 00:23:04.040 outreach on college campuses to
NOTE Confidence: 0.9558761

00:23:04.040 --> 00:23:05.420 sort of tell guys
NOTE Confidence: 0.94522053

00:23:05.835 --> 00:23:07.195 or instruct guys on how
NOTE Confidence: 0.94522053

00:23:07.195 --> 00:23:08.554 to do a testicular self
NOTE Confidence: 0.94522053

00:23:08.554 --> 00:23:10.155 exam. But you're correct. Most
NOTE Confidence: 0.94522053

00:23:10.155 --> 00:23:11.215 often it is
NOTE Confidence: 0.8971039

00:23:11.515 --> 00:23:13.115 something that it's hard to
NOTE Confidence: 0.8971039

00:23:13.115 --> 00:23:14.975 miss and you note a
NOTE Confidence: 0.8971039

00:23:15.115 --> 00:23:16.494 change in the testicle or on it.
00:23:19.109 --> 00:23:20.490 And there are
NOTE Confidence: 0.9974553

00:23:21.030 --> 00:23:22.310 a few different types of
NOTE Confidence: 0.9974553

00:23:22.310 --> 00:23:23.290 prostate cancer,
NOTE Confidence: 0.9997189

00:23:23.670 --> 00:23:24.890 some of which are
NOTE Confidence: 0.8885642

00:23:25.590 --> 00:23:27.690 potentially more aggressive than others,
NOTE Confidence: 0.99907553

00:23:28.950 --> 00:23:29.450 typically
NOTE Confidence: 0.91907066

00:23:30.150 --> 00:23:33.105 divided as seminomas and non
NOTE Confidence: 0.91907066

00:23:33.105 --> 00:23:34.325 seminomonas cancers.
NOTE Confidence: 0.944733

00:23:35.505 --> 00:23:37.505 Correct. Yeah. So testicular cancer
NOTE Confidence: 0.944733

00:23:37.505 --> 00:23:39.345 has two large subgroups and
NOTE Confidence: 0.944733

00:23:39.345 --> 00:23:40.645 there are other small subgroups.
NOTE Confidence: 0.7553584

00:23:41.505 --> 00:23:42.005 Seminoma
00:23:45.240 --> 00:23:46.760 is the most prevalent or
NOTE Confidence: 0.9757155

00:23:46.760 --> 00:23:48.220 most common type of testicular
NOTE Confidence: 0.9757155

00:23:48.359 --> 00:23:50.440 cancer, and then we cluster
NOTE Confidence: 0.9757155

00:23:50.440 --> 00:23:51.660 a bunch of the others,
NOTE Confidence: 0.9757155

00:23:51.800 --> 00:23:52.300 embryonal,
NOTE Confidence: 0.9261952

00:23:54.040 --> 00:23:56.280 and others into yolk sac
NOTE Confidence: 0.9261952

00:23:56.280 --> 00:23:57.484 into nonseminoma.
NOTE Confidence: 0.9876998

00:23:57.865 --> 00:23:59.244 And that's because the prognosis
NOTE Confidence: 0.9876998

00:23:59.305 --> 00:24:01.065 with seminoma is quite good.
NOTE Confidence: 0.9876998

00:24:01.065 --> 00:24:02.105 The way that we treat
NOTE Confidence: 0.9876998

00:24:02.105 --> 00:24:03.065 them are a little bit
NOTE Confidence: 0.9876998

00:24:03.065 --> 00:24:04.445 different, but pure seminoma
NOTE Confidence: 0.9851093

00:24:04.984 --> 00:24:06.505 is often cured just by
NOTE Confidence: 0.9851093

00:24:06.505 --> 00:24:08.045 removal of the tumor alone.
NOTE Confidence: 0.95800614

00:24:09.315 --> 00:24:11.600 Whereas non seminoma can
NOTE Confidence: 0.95800614

00:24:11.600 --> 00:24:12.799 also often be cured by
NOTE Confidence: 0.95800614

00:24:12.799 --> 00:24:13.760 that alone, but has a
NOTE Confidence: 0.95800614

00:24:13.760 --> 00:24:15.200 slightly higher rate of
NOTE Confidence: 0.95800614

00:24:15.200 --> 00:24:17.059 recurrence and needing additional treatment.
00:24:19.119 --> 00:24:21.119 Testicular cancer, in truth, was
NOTE Confidence: 0.94949406

00:24:21.119 --> 00:24:21.619 the
NOTE Confidence: 0.99985445

00:24:22.255 --> 00:24:22.755 original
NOTE Confidence: 0.98925143

00:24:23.294 --> 00:24:25.554 huge success in medical oncology.
NOTE Confidence: 0.9563185

00:24:25.855 --> 00:24:27.794 It's the one tumor type,
NOTE Confidence: 0.9563185

00:24:28.015 --> 00:24:29.234 albeit rare,
NOTE Confidence: 0.99939525

00:24:29.695 --> 00:24:30.195 that
NOTE Confidence: 0.9994799

00:24:30.734 --> 00:24:32.595 early studies with chemotherapy
NOTE Confidence: 0.99883324

00:24:32.975 --> 00:24:33.475 demonstrated
NOTE Confidence: 0.9991124

00:24:33.855 --> 00:24:35.635 that you could dramatically
NOTE Confidence: 0.99846375

00:24:36.015 --> 00:24:37.475 increase the cure rate
NOTE Confidence: 0.99897563

00:24:38.210 --> 00:24:39.990 with the use of chemotherapy
NOTE Confidence: 0.99897563

00:24:40.210 --> 00:24:40.950 in these
NOTE Confidence: 0.8956369

00:24:41.890 --> 00:24:43.890 germ cell tumors, the non
NOTE Confidence: 0.8956369

00:24:43.890 --> 00:24:45.109 seminomas cancers.
NOTE Confidence: 0.9486817

00:24:46.290 --> 00:24:47.430 Correct. Yes.
NOTE Confidence: 0.98680335

00:24:47.810 --> 00:24:48.310 Chemotherapy
NOTE Confidence: 0.9195322

00:24:48.770 --> 00:24:50.869 use, especially in non seminoma,

NOTE Confidence: 0.95504344

00:24:51.244 --> 00:24:53.025 because initially we use radiation

NOTE Confidence: 0.95504344

00:24:53.165 --> 00:24:55.265 therapy for seminoma. That has

NOTE Confidence: 0.9867441

00:24:55.645 --> 00:24:57.005 changed now. We now will

NOTE Confidence: 0.9867441

00:24:57.005 --> 00:24:59.185 often use chemotherapy for seminoma

NOTE Confidence: 0.9867441

00:24:59.244 --> 00:24:59.984 as well.

NOTE Confidence: 0.9652739

00:25:00.925 --> 00:25:02.285 But, yes, it absolutely was

NOTE Confidence: 0.9652739

00:25:02.285 --> 00:25:04.619 one of our great success

NOTE Confidence: 0.9652739

00:25:04.619 --> 00:25:07.020 stories in in oncology, especially

NOTE Confidence: 0.9652739

00:25:07.020 --> 00:25:08.320 because patients are young,

NOTE Confidence: 0.9745818

00:25:08.940 --> 00:25:10.060 and we're able to have

NOTE Confidence: 0.9745818

00:25:10.060 --> 00:25:12.640 very, very high treatment success

NOTE Confidence: 0.9745818

00:25:12.860 --> 00:25:14.940 rates. I think the caveat

NOTE Confidence: 0.9745818

00:25:14.940 --> 00:25:15.900 to that, I mean, it's

NOTE Confidence: 0.9745818

00:25:15.900 --> 00:25:17.600 excellent that we're able to,

NOTE Confidence: 0.9949999

00:25:18.140 --> 00:25:18.880 you know, save

NOTE Confidence: 0.97008353

00:25:19.304 --> 00:25:20.424 many people and keep them
NOTE Confidence: 0.97008353

00:25:20.424 --> 00:25:20.924 alive.
NOTE Confidence: 0.99925274

00:25:21.544 --> 00:25:22.044 But
NOTE Confidence: 0.98561746

00:25:22.504 --> 00:25:23.465 I still need to make
NOTE Confidence: 0.98561746

00:25:23.465 --> 00:25:25.144 a plug for early detection
NOTE Confidence: 0.98561746

00:25:25.144 --> 00:25:26.585 because when we find these ealry
00:25:28.345 --> 00:25:29.304 and we can treat them
NOTE Confidence: 0.98561746

00:25:29.304 --> 00:25:30.825 with surgery alone, we don't
NOTE Confidence: 0.98561746

00:25:30.825 --> 00:25:31.884 have to give chemotherapy.
NOTE Confidence: 0.94417495

00:25:32.450 --> 00:25:33.490 And the longer that we
NOTE Confidence: 0.94417495

00:25:33.490 --> 00:25:34.530 wait, the worse the cancer
NOTE Confidence: 0.94417495

00:25:34.530 --> 00:25:36.290 is, the more chemotherapy is
NOTE Confidence: 0.94417495

00:25:36.290 --> 00:25:37.750 needed and the more chemotherapy,
NOTE Confidence: 0.9888703

00:25:38.369 --> 00:25:39.650 again, the more side effects.
NOTE Confidence: 0.9888703

00:25:39.650 --> 00:25:41.670 And especially in young men
NOTE Confidence: 0.9888703

00:25:41.809 --> 00:25:43.010 who have a long time
NOTE Confidence: 0.9888703

00:25:43.010 --> 00:25:44.150 to live after treatment,
NOTE Confidence: 0.98974717

00:25:44.465 --> 00:25:46.065 we do unfortunately see that
NOTE Confidence: 0.98974717

00:25:46.065 --> 00:25:47.825 secondary cancers and other problems
NOTE Confidence: 0.98974717

00:25:47.825 --> 00:25:49.425 can develop when we have
NOTE Confidence: 0.98974717

00:25:49.425 --> 00:25:51.205 to give more chemotherapy. So,
NOTE Confidence: 0.9623024

00:25:52.065 --> 00:25:53.425 still is very important to
NOTE Confidence: 0.9623024

00:25:53.425 --> 00:25:54.865 kind of if you hear
NOTE Confidence: 0.9623024

00:25:54.865 --> 00:25:55.905 this, if you're a young
NOTE Confidence: 0.9623024

00:25:55.905 --> 00:25:57.800 man, you know, testicular self
NOTE Confidence: 0.9623024

00:25:57.800 --> 00:25:58.600 exam is something you could
NOTE Confidence: 0.9623024

00:25:58.600 --> 00:25:59.480 do in the shower once
NOTE Confidence: 0.9623024

00:25:59.480 --> 00:26:01.080 a month. It's not difficult.
NOTE Confidence: 0.9623024

00:26:01.080 --> 00:26:02.300 Doesn't take much time.
NOTE Confidence: 0.9832689

00:26:03.160 --> 00:26:04.700 And, it can definitely
NOTE Confidence: 0.9548901

00:26:06.280 --> 00:26:07.320 you know, if God
NOTE Confidence: 0.9548901

00:26:07.320 --> 00:26:09.075 forbid, something happened,

NOTE Confidence: 0.9548901
00:26:09.075 --> 00:26:10.195 by detecting it
NOTE Confidence: 0.9548901
00:26:10.195 --> 00:26:11.894 early, it can help prevent
NOTE Confidence: 0.85051537
00:26:12.195 --> 00:26:13.014 a lot of
NOTE Confidence: 0.982349
00:26:13.394 --> 00:26:14.994 difficulty down the road. I
NOTE Confidence: 0.982349
00:26:14.994 --> 00:26:16.195 think it's a really important
NOTE Confidence: 0.982349
00:26:16.195 --> 00:26:17.815 message because the chemotherapy,
NOTE Confidence: 0.9988487
00:26:18.674 --> 00:26:19.174 while
NOTE Confidence: 0.999833
00:26:19.475 --> 00:26:19.975 relatively
NOTE Confidence: 0.9918227
00:26:20.355 --> 00:26:22.215 brief, meaning a few months,
NOTE Confidence: 0.99109
00:26:23.570 --> 00:26:24.850 is not for the faint
NOTE Confidence: 0.99109
00:26:24.850 --> 00:26:25.510 of heart.
NOTE Confidence: 0.9971798
00:26:26.050 --> 00:26:27.910 And it's tough chemotherapy
NOTE Confidence: 0.9741594
00:26:28.450 --> 00:26:29.650 and no one wants to
NOTE Confidence: 0.9741594
00:26:29.650 --> 00:26:30.770 get it if they can
NOTE Confidence: 0.9741594
00:26:30.770 --> 00:26:32.310 manage to avoid it.
NOTE Confidence: 0.95911026

00:26:32.930 --> 00:26:33.810 And I think, you know,
NOTE Confidence: 0.95911026

00:26:33.810 --> 00:26:35.109 the other message is
NOTE Confidence: 0.95792985

00:26:35.650 --> 00:26:36.150 because
NOTE Confidence: 0.9721809

00:26:36.530 --> 00:26:38.534 young people tend to sometimes
NOTE Confidence: 0.9721809

00:26:38.534 --> 00:26:40.134 put things off is if
NOTE Confidence: 0.9721809

00:26:40.134 --> 00:26:41.975 someone finds something, they need
NOTE Confidence: 0.9721809

00:26:41.975 --> 00:26:44.075 to take action
NOTE Confidence: 0.8411049

00:26:44.455 --> 00:26:45.674 and see their doctor
NOTE Confidence: 0.9968897

00:26:46.294 --> 00:26:47.734 and not just wait until
NOTE Confidence: 0.9968897

00:26:47.734 --> 00:26:49.514 it gets bigger and bigger.
NOTE Confidence: 0.9814863

00:26:49.990 --> 00:26:51.029 Correct. And it's very easy
NOTE Confidence: 0.9814863

00:26:51.029 --> 00:26:51.750 for us to do an
NOTE Confidence: 0.9814863

00:26:51.750 --> 00:26:53.109 evaluation. So it's a quick
NOTE Confidence: 0.9814863

00:26:53.109 --> 00:26:54.309 physical exam to see if
NOTE Confidence: 0.9814863

00:26:54.309 --> 00:26:55.429 we feel something in the
NOTE Confidence: 0.9814863

00:26:55.429 --> 00:26:57.210 testicle and then an ultrasound.

NOTE Confidence: 0.9814863
00:26:57.350 --> 00:26:58.570 So it's a really noninvasive
NOTE Confidence: 0.99513036
00:26:58.950 --> 00:27:00.570 initial diagnostic evaluation.
NOTE Confidence: 0.79349935
00:27:01.669 --> 00:27:02.085 Yes.
NOTE Confidence: 0.8610102
00:27:02.484 --> 00:27:04.664 Well, that's important.
NOTE Confidence: 0.99983996
00:27:05.125 --> 00:27:06.085 And what are some of
NOTE Confidence: 0.99983996
00:27:06.085 --> 00:27:07.145 the things that
NOTE Confidence: 0.9845944
00:27:07.524 --> 00:27:10.085 can masquerade as testicular cancer?
NOTE Confidence: 0.9845944
00:27:10.085 --> 00:27:11.544 So what other kinds of
NOTE Confidence: 0.9845944
00:27:11.684 --> 00:27:13.705 lumps arise in the testis?
NOTE Confidence: 0.9687528
00:27:14.179 --> 00:27:14.980 There can be a lot
NOTE Confidence: 0.9687528
00:27:14.980 --> 00:27:15.859 of lumps and bumps in
NOTE Confidence: 0.9687528
00:27:15.859 --> 00:27:16.900 the testis. So, you know,
NOTE Confidence: 0.9687528
00:27:16.900 --> 00:27:18.260 very commonly there can be
NOTE Confidence: 0.9687528
00:27:18.260 --> 00:27:19.880 a cyst, in the epididymis,
NOTE Confidence: 0.9833784
00:27:20.340 --> 00:27:21.859 which is something that sits
NOTE Confidence: 0.9833784

00:27:21.859 --> 00:27:23.059 right behind the testicle. You
NOTE Confidence: 0.9833784

00:27:23.059 --> 00:27:24.020 can even have a cyst
NOTE Confidence: 0.9833784

00:27:24.020 --> 00:27:24.840 in the testicle,
NOTE Confidence: 0.7252652

00:27:26.684 --> 00:27:27.184 varicocele
NOTE Confidence: 0.94719

00:27:27.644 --> 00:27:29.244 sort of this bag of
NOTE Confidence: 0.94719

00:27:29.244 --> 00:27:31.005 worms feeling that people describe
NOTE Confidence: 0.94719

00:27:31.005 --> 00:27:32.125 as just a vein that's
NOTE Confidence: 0.94719

00:27:32.125 --> 00:27:32.945 in the scrotum.
NOTE Confidence: 0.98914665

00:27:33.804 --> 00:27:35.005 So there are other things
NOTE Confidence: 0.98914665

00:27:35.005 --> 00:27:36.924 that can definitely masquerade as
NOTE Confidence: 0.98914665

00:27:36.924 --> 00:27:38.524 a testicular cancer,
NOTE Confidence: 0.98914665

00:27:38.524 --> 00:27:40.144 but, again, all of those
NOTE Confidence: 0.98914665

00:27:40.279 --> 00:27:41.899 can pretty easily be differentiated
NOTE Confidence: 0.98914665

00:27:41.960 --> 00:27:43.639 with a scrotal ultrasound. So
NOTE Confidence: 0.98914665

00:27:43.639 --> 00:27:44.919 if you feel something that's
NOTE Confidence: 0.98914665

00:27:44.919 --> 00:27:45.419 abnormal,

NOTE Confidence: 0.9997364
00:27:45.799 --> 00:27:47.019 just get it checked out.
NOTE Confidence: 0.9610757
00:27:47.799 --> 00:27:49.260 And this is a situation
NOTE Confidence: 0.9610757
00:27:49.399 --> 00:27:51.320 where you're not doing things
NOTE Confidence: 0.9610757
00:27:51.320 --> 00:27:53.720 like focal ablative therapy. You're
NOTE Confidence: 0.9610757
00:27:53.720 --> 00:27:54.619 doing surgery.
NOTE Confidence: 0.99221295
00:27:55.054 --> 00:27:57.075 If someone has testicular cancer,
NOTE Confidence: 0.9850003
00:27:57.455 --> 00:27:59.135 what does the surgery
NOTE Confidence: 0.9850003
00:27:59.135 --> 00:27:59.635 involve?
NOTE Confidence: 0.9848347
00:28:01.054 --> 00:28:01.554 So
NOTE Confidence: 0.9840285
00:28:01.934 --> 00:28:03.955 the surgery for testicular cancer
NOTE Confidence: 0.9997672
00:28:04.494 --> 00:28:05.234 is often
NOTE Confidence: 0.9975318
00:28:05.695 --> 00:28:06.195 removal
NOTE Confidence: 0.92207485
00:28:06.494 --> 00:28:08.255 of the involved testicle. So
NOTE Confidence: 0.92207485
00:28:08.255 --> 00:28:09.375 a surgical removal of the
NOTE Confidence: 0.92207485
00:28:09.375 --> 00:28:10.275 involved testicle.
NOTE Confidence: 0.9619995

00:28:12.260 --> 00:28:13.859 Men have two
NOTE Confidence: 0.9619995

00:28:13.859 --> 00:28:14.920 testicles typically,
NOTE Confidence: 0.9986833

00:28:15.619 --> 00:28:16.119 and
NOTE Confidence: 0.9416577

00:28:16.420 --> 00:28:17.940 so removing one does not
NOTE Confidence: 0.9416577

00:28:17.940 --> 00:28:20.040 appear to change the
NOTE Confidence: 0.98333395

00:28:20.500 --> 00:28:22.280 fertility risk or change
NOTE Confidence: 0.9999471

00:28:23.060 --> 00:28:23.560 testosterone
NOTE Confidence: 0.9839543

00:28:23.940 --> 00:28:24.440 levels.
NOTE Confidence: 0.97844225

00:28:24.900 --> 00:28:25.400 So
NOTE Confidence: 0.99827486

00:28:25.845 --> 00:28:26.965 if there is someone who
NOTE Confidence: 0.99827486

00:28:26.965 --> 00:28:28.244 has only one testicle, we
NOTE Confidence: 0.99827486

00:28:28.244 --> 00:28:28.984 will consider
NOTE Confidence: 0.99733895

00:28:29.365 --> 00:28:30.345 doing a partial
NOTE Confidence: 0.983404

00:28:30.885 --> 00:28:32.885 orchiectomy, removing just the tumor,
NOTE Confidence: 0.983404

00:28:32.885 --> 00:28:33.845 but that's a very rare
NOTE Confidence: 0.983404

00:28:33.845 --> 00:28:34.345 occurrence.

NOTE Confidence: 0.9781417
00:28:34.885 --> 00:28:36.645 Doctor Preston Sprenkle is an
NOTE Confidence: 0.9781417
00:28:36.645 --> 00:28:38.565 associate professor of urology at
NOTE Confidence: 0.9781417
00:28:38.565 --> 00:28:39.945 the Yale School of Medicine.
NOTE Confidence: 0.9894117
00:28:40.530 --> 00:28:41.730 If you have questions, the
NOTE Confidence: 0.9894117
00:28:41.730 --> 00:28:42.870 address is canceranswers
NOTE Confidence: 0.8946957
00:28:43.330 --> 00:28:44.550 at yale dot edu,
NOTE Confidence: 0.98313695
00:28:44.850 --> 00:28:46.210 and past editions of the
NOTE Confidence: 0.98313695
00:28:46.210 --> 00:28:48.050 program are available in audio
NOTE Confidence: 0.98313695
00:28:48.050 --> 00:28:49.410 and written form at yale
NOTE Confidence: 0.98313695
00:28:49.410 --> 00:28:50.870 cancer center dot org.
NOTE Confidence: 0.99948376
00:28:51.170 --> 00:28:52.210 We hope you'll join us
NOTE Confidence: 0.99948376
00:28:52.210 --> 00:28:53.250 next time to learn more
NOTE Confidence: 0.99948376
00:28:53.250 --> 00:28:54.710 about the fight against cancer.
NOTE Confidence: 0.9748943
00:28:55.195 --> 00:28:56.875 Funding for Yale Cancer Answers
NOTE Confidence: 0.9748943
00:28:56.875 --> 00:28:58.635 is provided by Smilow Cancer
NOTE Confidence: 0.9748943

00:28:58.635 --> 00:28:59.135 Hospital.