WEBVTT

00:00:00.160 --> 00:00:01.920 Funding for Yale Cancer Answers NOTE Confidence: 0.9338553 $00:00:01.920 \longrightarrow 00:00:03.679$ is provided by Smilow Cancer NOTE Confidence: 0.9338553 00:00:03.679 --> 00:00:04.180 Hospital. NOTE Confidence: 0.9436277 00:00:06.080 --> 00:00:08.000 Welcome to Yale Cancer Answers NOTE Confidence: 0.9436277 $00:00:08.000 \rightarrow 00:00:08.960$ with the director of NOTE Confidence: 0.9436277 00:00:08.960 --> 00:00:10.639 Yale Cancer Center, Doctor Eric NOTE Confidence: 0.9436277 00:00:10.639 --> 00:00:11.139 Winer. NOTE Confidence: 0.9857887 00:00:11.679 --> 00:00:13.735 Yale Cancer Answers features conversations NOTE Confidence: 0.9857887 $00{:}00{:}13.955 \dashrightarrow 00{:}00{:}15.875$ with on cologists and specialists who NOTE Confidence: 0.9857887 $00:00:15.875 \longrightarrow 00:00:16.755$ are on the forefront of NOTE Confidence: 0.9857887 00:00:16.755 --> 00:00:18.055 the battle to fight cancer. NOTE Confidence: 0.91413724 00:00:18.595 --> 00:00:19.895 This week, it's a conversation NOTE Confidence: 0.91413724 $00:00:19.954 \longrightarrow 00:00:21.795$ about clinical trials with doctor NOTE Confidence: 0.91413724 00:00:21.795 --> 00:00:23.575 Ian Krop and Alyssa Gateman. NOTE Confidence: 0.9604995 00:00:23.954 --> 00:00:25.314 Doctor Krop is a professor NOTE Confidence: 0.9604995

 $00:00:25.314 \rightarrow 00:00:27.015$ of internal medicine and medical NOTE Confidence: 0.9604995 00:00:27.090 --> 00:00:28.450 on cology at the Yale School NOTE Confidence: 0.9604995 $00{:}00{:}28.450 \dashrightarrow 00{:}00{:}30.370$ of Medicine, and Alyssa Gateman NOTE Confidence: 0.9604995 $00:00:30.370 \longrightarrow 00:00:31.730$ is the executive director of NOTE Confidence: 0.9604995 $00:00:31.730 \longrightarrow 00:00:33.250$ the clinical trials office at NOTE Confidence: 0.9604995 00:00:33.250 --> 00:00:35.250 Yale Cancer Center. Here's NOTE Confidence: 0.9604995 00:00:35.250 --> 00:00:36.070 doctor Winer. 00:00:37.650 --> 00:00:39.489 Let's just begin talking NOTE Confidence: 0.99547505 $00:00:39.489 \longrightarrow 00:00:40.610$ a little bit about each NOTE Confidence: 0.99547505 $00{:}00{:}40.610 \dashrightarrow 00{:}00{:}42.165$ of you and how you NOTE Confidence: 0.99547505 $00:00:42.165 \longrightarrow 00:00:44.325$ got interested in this line NOTE Confidence: 0.99547505 $00:00:44.325 \longrightarrow 00:00:45.065$ of work. NOTE Confidence: 0.9374024 00:00:45.445 --> 00:00:47.045 Alyssa, how'd you wind NOTE Confidence: 0.9374024 00:00:47.045 --> 00:00:48.905 up working in clinical trials? NOTE Confidence: 0.9977444 00:00:49.445 --> 00:00:50.425 Thank you, Eric. NOTE Confidence: 0.9993561 00:00:51.284 --> 00:00:53.225 I fell into clinical trials NOTE Confidence: 0.9993561

 $00:00:53.284 \rightarrow 00:00:54.985$ about twenty five years ago.

NOTE Confidence: 0.99866873

 $00{:}00{:}56{.}190 \dashrightarrow 00{:}00{:}57{.}390$ The first part of

NOTE Confidence: 0.99866873

00:00:57.390 --> 00:00:58.670 my career, I was working

NOTE Confidence: 0.99866873

 $00:00:58.670 \longrightarrow 00:00:59.570$ with investigators

NOTE Confidence: 0.9805025

 $00:00:59.950 \dashrightarrow 00:01:01.310$ on studies that they developed

NOTE Confidence: 0.9805025

 $00:01:01.310 \longrightarrow 00:01:02.510$ themselves and really on the

NOTE Confidence: 0.9805025

00:01:02.510 --> 00:01:03.950 data side. But for the

NOTE Confidence: 0.9805025

00:01:03.950 --> 00:01:05.470 majority of my career, I

NOTE Confidence: 0.9805025

 $00{:}01{:}05{.}470 \dashrightarrow 00{:}01{:}07{.}650$ have been working in quality

NOTE Confidence: 0.9759346

 $00:01:08.535 \rightarrow 00:01:11.035$ and compliance, really ensuring that

NOTE Confidence: 0.9759346

 $00{:}01{:}11{.}175 \dashrightarrow 00{:}01{:}13{.}575$ our patients that

NOTE Confidence: 0.9759346

00:01:13.575 --> 00:01:15.275 are participating in research studies

NOTE Confidence: 0.9979876

 $00:01:16.215 \longrightarrow 00:01:17.035$ are protected,

NOTE Confidence: 0.97948104

 $00:01:17.895 \longrightarrow 00:01:19.495$ that they have been provided informed

NOTE Confidence: 0.97948104

00:01:19.495 --> 00:01:20.935 consent, and that the data

NOTE Confidence: 0.97948104

 $00:01:20.935 \longrightarrow 00:01:21.834$ that they're providing

- NOTE Confidence: 0.9149741
- $00:01:22.535 \longrightarrow 00:01:23.940$ to lead to new treatments
- NOTE Confidence: 0.9149741
- $00:01:23.940 \longrightarrow 00:01:26.200$ is actually collected and credible data.
- NOTE Confidence: 0.98416317
- $00{:}01{:}26{.}979 \dashrightarrow 00{:}01{:}28{.}180$ A few years ago, as
- NOTE Confidence: 0.98416317
- 00:01:28.180 --> 00:01:29.560 you know, I transitioned
- NOTE Confidence: 0.98416317
- $00:01:29.619 \longrightarrow 00:01:31.220$ now over more to operations
- NOTE Confidence: 0.98416317
- $00{:}01{:}31{.}220 \dashrightarrow 00{:}01{:}31{.}959$ and administration.
- 00:01:34.340 --> 00:01:35.540 But one of the passions I
- NOTE Confidence: 0.9777122
- $00:01:35.540 \longrightarrow 00:01:36.920$ have is really educating
- NOTE Confidence: 0.998185
- $00{:}01{:}38.225 \dashrightarrow 00{:}01{:}40.385$ new clinical research professionals and
- NOTE Confidence: 0.998185
- 00:01:40.385 --> 00:01:41.765 making everyone aware
- NOTE Confidence: 0.9712658
- $00:01:42.305 \longrightarrow 00:01:44.065$ as they're trying to go
- NOTE Confidence: 0.9712658
- $00:01:44.065 \dashrightarrow 00:01:45.505$ through their professions and look
- NOTE Confidence: 0.9712658
- $00:01:45.505 \longrightarrow 00:01:46.785$ at what their career options
- NOTE Confidence: 0.9712658
- $00:01:46.785 \longrightarrow 00:01:48.385$ are of the options of being
- NOTE Confidence: 0.9712658
- $00:01:48.385 \dashrightarrow 00:01:49.925$ a clinical research professional.
- NOTE Confidence: 0.9205787
- 00:01:53.549 --> 00:01:53.950 An Ian, wha

- NOTE Confidence: 0.99763554
- 00:01:54.350 --> 00:01:56.049 got you into this?
- NOTE Confidence: 0.9761274
- 00:01:56.509 --> 00:01:57.570 You are also
- NOTE Confidence: 0.961665
- $00:01:59.070 \longrightarrow 00:02:01.090$ a clinician and a researcher.
- $00:02:04.110 \longrightarrow 00:02:05.390$ What made you interested in
- NOTE Confidence: 0.9714222
- $00{:}02{:}05{.}390 \dashrightarrow 00{:}02{:}07{.}950$ cancer, and what got you
- NOTE Confidence: 0.9714222
- $00{:}02{:}07{.}950 \dashrightarrow 00{:}02{:}09{.}645$ involved in clinical
- NOTE Confidence: 0.9580774
- 00:02:10.185 --> 00:02:11.544 trials?
- NOTE Confidence: 0.9580774
- 00:02:11.544 --> 00:02:13.705 Personally I didn't fall into clinical trials.
- NOTE Confidence: 0.9580774
- 00:02:13.705 --> 00:02:15.005 I think I more gradually
- NOTE Confidence: 0.9580774
- $00{:}02{:}15{.}145 \dashrightarrow 00{:}02{:}15{.}645$ crawled into this area.
- 00:02:18.665 --> 00:02:19.405 I was originally
- NOTE Confidence: 0.81746006
- 00:02:19.865 --> 00:02:20.445 a laboratory
- NOTE Confidence: 0.9914715
- 00:02:20.905 --> 00:02:22.764 researcher trying to understand
- NOTE Confidence: 0.9962656
- $00:02:24.150 \longrightarrow 00:02:26.470$ what causes cancer, what causes
- NOTE Confidence: 0.9962656
- $00{:}02{:}26.470 \dashrightarrow 00{:}02{:}28.410$ cancer to become resistant
- NOTE Confidence: 0.87780493
- $00:02:28.710 \longrightarrow 00:02:29.610$ to our treatments.
- NOTE Confidence: 0.9804672

- 00:02:30.950 --> 00:02:32.650 But over time, I
- NOTE Confidence: 0.986159
- $00{:}02{:}33{.}510 \dashrightarrow 00{:}02{:}35{.}610$ wanted to more directly
- NOTE Confidence: 0.91597015
- 00:02:37.575 --> 00:02:40.055 impact patients and have
- NOTE Confidence: 0.91597015
- $00:02:40.055 \longrightarrow 00:02:41.435$ the research
- NOTE Confidence: 0.98882186
- $00{:}02{:}42.375 \dashrightarrow 00{:}02{:}44.474$ help patients directly rather than
- NOTE Confidence: 0.98882186
- $00:02:44.534 \rightarrow 00:02:46.394$ the gradual process of laboratory
- NOTE Confidence: 0.98882186
- 00:02:46.454 --> 00:02:47.915 research. So I started doing
- NOTE Confidence: 0.98882186
- $00:02:48.135 \longrightarrow 00:02:49.034$ more and more
- NOTE Confidence: 0.98496026
- 00:02:49.540 --> 00:02:51.380 clinical trials, testing new drugs
- NOTE Confidence: 0.98496026
- $00:02:51.380 \longrightarrow 00:02:52.040$ to help
- NOTE Confidence: 0.49567562
- $00:02:52.419 \longrightarrow 00:02:52.919$ patients
- NOTE Confidence: 0.85047966
- $00:02:53.300 \longrightarrow 00:02:54.840$ with breast cancer, and
- NOTE Confidence: 0.921671
- $00:02:55.300 \longrightarrow 00:02:56.280$ that just became
- NOTE Confidence: 0.9031857
- $00:02:58.340 \longrightarrow 00:02:59.800$ such an exciting field.
- NOTE Confidence: 0.90097797
- 00:03:01.220 --> 00:03:02.660 I couldn't leave it until
- NOTE Confidence: 0.90097797
- $00:03:02.660 \longrightarrow 00:03:03.780$ it became my full time

- NOTE Confidence: 0.90097797
- $00:03:03.780 \longrightarrow 00:03:05.215$ job, roughly twenty
- NOTE Confidence: 0.90097797
- 00:03:05.215 --> 00:03:06.255 years ago and have
- NOTE Confidence: 0.90097797
- $00:03:06.255 \longrightarrow 00:03:07.935$ continued to do that moving
- NOTE Confidence: 0.90097797
- 00:03:07.935 --> 00:03:08.435 from Boston
- $00{:}03{:}09{.}695 \dashrightarrow 00{:}03{:}10{.}915$ now here to Yale,
- NOTE Confidence: 0.9873828
- 00:03:11.455 --> 00:03:12.255 two and a half years
- NOTE Confidence: 0.9873828
- $00:03:12.255 \longrightarrow 00:03:12.755$ ago.
- NOTE Confidence: 0.93390566
- 00:03:13.775 --> 00:03:16.195 Well, clinical trials are obviously
- NOTE Confidence: 0.93390566
- 00:03:16.335 --> 00:03:17.100 very important
- NOTE Confidence: 0.9995887
- $00{:}03{:}17.580 \dashrightarrow 00{:}03{:}19.280$ because there is no scientific
- NOTE Confidence: 0.9995887
- $00:03:19.500 \longrightarrow 00:03:21.280$ discovery that goes from
- NOTE Confidence: 0.8665339
- $00:03:21.820 \longrightarrow 00:03:22.720$ some scientist's
- NOTE Confidence: 0.9990682
- 00:03:23.100 --> 00:03:23.600 lab
- NOTE Confidence: 0.9991005
- $00:03:23.980 \longrightarrow 00:03:25.760$ to the pharmacy
- NOTE Confidence: 0.9749114
- $00{:}03{:}26.060 \dashrightarrow 00{:}03{:}28.220$ shelf without a clinical trials
- NOTE Confidence: 0.9749114
- $00:03:28.220 \longrightarrow 00:03:28.720$ component

- NOTE Confidence: 0.99978447
- $00:03:29.020 \longrightarrow 00:03:29.680$ in between.
- NOTE Confidence: 0.99913996
- $00:03:30.405 \longrightarrow 00:03:31.465$ With that said,
- NOTE Confidence: 0.9528574
- $00:03:32.325 \longrightarrow 00:03:34.185$ what's involved for a patient
- NOTE Confidence: 0.9528574
- $00:03:34.484 \longrightarrow 00:03:36.344$ in joining a clinical trial?
- NOTE Confidence: 0.9528574
- 00:03:36.484 --> 00:03:37.605 It's a great question
- 00:03:39.444 --> 00:03:40.885 because it's not
- NOTE Confidence: 0.9393154
- $00:03:40.885 \longrightarrow 00:03:42.564$ something that you necessarily are
- NOTE Confidence: 0.9393154
- 00:03:42.564 --> 00:03:44.424 gonna know unless you've
- NOTE Confidence: 0.9976406
- $00{:}03{:}44.885 \dashrightarrow 00{:}03{:}45.625$ been involved.
- NOTE Confidence: 0.99944705
- $00:03:46.890 \longrightarrow 00:03:47.849$ I don't think many of the
- 00:03:48.969 --> 00:03:50.730 medicine shows on TV really
- NOTE Confidence: 0.98359734
- 00:03:50.730 --> 00:03:51.469 talk about
- NOTE Confidence: 0.80240375
- $00:03:51.930 \longrightarrow 00:03:53.390$ clinical trials, so
- NOTE Confidence: 0.8929451
- 00:03:54.170 --> 00:03:55.150 happy to explain.
- NOTE Confidence: 0.9105365
- $00:03:57.209 \longrightarrow 00:03:58.430$ For most patients,
- NOTE Confidence: 0.9966083
- 00:04:00.705 --> 00:04:01.905 getting involved in a clinical
- NOTE Confidence: 0.9966083

- 00:04:01.905 --> 00:04:02.885 trial starts
- NOTE Confidence: 0.99789995
- $00:04:03.345 \longrightarrow 00:04:04.645$ in their discussions
- NOTE Confidence: 0.96676046
- $00{:}04{:}05{.}025 \dashrightarrow 00{:}04{:}07{.}285$ with their healthcare provider about
- NOTE Confidence: 0.98328257
- $00{:}04{:}08.065 \dashrightarrow 00{:}04{:}09.585$ what treatments makes sense for
- NOTE Confidence: 0.98328257
- $00:04:09.585 \longrightarrow 00:04:10.085$ them,
- NOTE Confidence: 0.97260106
- $00:04:11.105 \longrightarrow 00:04:12.305$ as in the next step
- $00:04:14.880 \longrightarrow 00:04:15.860$ of their journey.
- NOTE Confidence: 0.9938961
- $00{:}04{:}16.640 \dashrightarrow 00{:}04{:}17.460$ And we
- NOTE Confidence: 0.96522224
- $00:04:17.839 \longrightarrow 00:04:19.760$ really feel strongly that a
- NOTE Confidence: 0.96522224
- $00:04:19.760 \longrightarrow 00:04:22.180$ clinical trial is part of the
- $00:04:25.279 \rightarrow 00:04:27.600$ overall treatment options available to
- NOTE Confidence: 0.96444315
- $00:04:27.600 \longrightarrow 00:04:28.100$ patients.
- NOTE Confidence: 0.8678507
- $00{:}04{:}28{.}544 \dashrightarrow 00{:}04{:}29{.}764$ And so when
- NOTE Confidence: 0.9143383
- $00:04:30.305 \longrightarrow 00:04:31.685$ a patient is deciding
- NOTE Confidence: 0.9288332
- $00:04:32.145 \longrightarrow 00:04:33.904$ on what treatment option to
- NOTE Confidence: 0.9288332
- $00{:}04{:}33{.}904 \dashrightarrow 00{:}04{:}34{.}404$ take,
- NOTE Confidence: 0.803671
- $00:04:35.425 \longrightarrow 00:04:36.164$ the providers

- NOTE Confidence: 0.9977292
- $00:04:36.625 \longrightarrow 00:04:37.525$ provide that
- NOTE Confidence: 0.9541569
- 00:04:37.904 --> 00:04:39.585 treatment, a clinical trial option,
- NOTE Confidence: 0.9541569
- $00{:}04{:}39{.}585 \dashrightarrow 00{:}04{:}40{.}705$ as well as what we
- NOTE Confidence: 0.9541569
- $00{:}04{:}40.705 \dashrightarrow 00{:}04{:}41.985$ call standard of care, the
- NOTE Confidence: 0.9541569
- 00:04:41.985 --> 00:04:42.964 FDA approved
- NOTE Confidence: 0.9024917
- $00:04:43.425 \rightarrow 00:04:43.925$ options.
- NOTE Confidence: 0.99843353
- $00:04:47.960 \longrightarrow 00:04:49.560$ If the trial is of interest
- NOTE Confidence: 0.99843353
- $00:04:49.560 \longrightarrow 00:04:50.380$ to the patient,
- NOTE Confidence: 0.9592752
- $00:04:51.240 \longrightarrow 00:04:52.600$ we then go into more
- NOTE Confidence: 0.9592752
- 00:04:52.600 --> 00:04:53.100 detail about
- NOTE Confidence: 0.99450916
- 00:04:53.800 --> 00:04:54.300 about
- NOTE Confidence: 0.9602803
- $00{:}04{:}54.600 \dashrightarrow 00{:}04{:}56.139$ what's involved with the trial.
- $00:04:58.014 \longrightarrow 00:04:59.055$ We go over what's called
- NOTE Confidence: 0.9500608
- $00{:}04{:}59{.}055 \dashrightarrow 00{:}05{:}00{.}974$ the informed consent document that
- NOTE Confidence: 0.9500608
- $00{:}05{:}00{.}974 \dashrightarrow 00{:}05{:}02{.}815$ Alyssa mentioned earlier, which is
- NOTE Confidence: 0.9500608
- $00:05:02.815 \rightarrow 00:05:03.315$ basically

NOTE Confidence: 0.96490777

00:05:04.735 --> 00:05:06.574 a very in-depth description of

NOTE Confidence: 0.96490777

 $00:05:06.574 \longrightarrow 00:05:08.514$ what's involved in the trial,

NOTE Confidence: 0.95575184

 $00:05:08.895 \rightarrow 00:05:11.460$ both what procedures and steps

NOTE Confidence: 0.95575184

 $00:05:11.620 \rightarrow 00:05:13.300$ and visits are required, but

NOTE Confidence: 0.95575184

 $00:05:13.300 \longrightarrow 00:05:15.139$ also most importantly the rationale

NOTE Confidence: 0.95575184

 $00{:}05{:}15{.}139 \dashrightarrow 00{:}05{:}16{.}900$ for the and the

NOTE Confidence: 0.95575184

 $00:05:16.900 \rightarrow 00:05:18.919$ potential benefits and the potential

NOTE Confidence: 0.95575184

 $00{:}05{:}18{.}979 \dashrightarrow 00{:}05{:}19{.}479$ risks.

 $00:05:22.099 \longrightarrow 00:05:23.880$ After the patients read that

 $00:05:25.964 \longrightarrow 00:05:27.004$ and talk with their family

NOTE Confidence: 0.956421

 $00:05:27.004 \rightarrow 00:05:28.125$ and talk with their provider,

NOTE Confidence: 0.956421

 $00:05:28.125 \longrightarrow 00:05:29.504$ if they decide they are

NOTE Confidence: 0.9571903

 $00{:}05{:}30{.}284 \dashrightarrow 00{:}05{:}31{.}404$ wanting to participate in the

NOTE Confidence: 0.9571903

 $00:05:31.404 \longrightarrow 00:05:32.525$ trial, they would then sign

NOTE Confidence: 0.9571903

 $00{:}05{:}32{.}525 \dashrightarrow 00{:}05{:}34{.}064$ the consent.

NOTE Confidence: 0.9609086

 $00:05:34.365 \longrightarrow 00:05:36.224$ Then we would as a team,

- $00:05:38.080 \longrightarrow 00:05:39.460$ make sure that the patient
- NOTE Confidence: 0.99457014
- $00:05:39.760 \longrightarrow 00:05:41.060$ meets what's called the eligibility
- NOTE Confidence: 0.99457014
- $00:05:41.360 \longrightarrow 00:05:42.400$ of the trial, which is
- NOTE Confidence: 0.99457014
- $00{:}05{:}42{.}400 \dashrightarrow 00{:}05{:}43{.}220$ all the
- NOTE Confidence: 0.98711336
- 00:05:43.680 --> 00:05:44.180 criteria
- NOTE Confidence: 0.8576824
- $00:05:44.640 \rightarrow 00:05:45.620$ that the patients,
- NOTE Confidence: 0.8616182
- $00{:}05{:}46.640 \dashrightarrow 00{:}05{:}48.720$ who the physicians who design
- NOTE Confidence: 0.8616182
- $00:05:48.720 \longrightarrow 00:05:49.380$ the trial,
- NOTE Confidence: 0.9767453
- $00{:}05{:}49.680 \dashrightarrow 00{:}05{:}51.220$ feel are important from
- NOTE Confidence: 0.9697919
- $00:05:52.315 \longrightarrow 00:05:54.075$ both the question that's
- NOTE Confidence: 0.9697919
- $00:05:54.075 \longrightarrow 00:05:55.115$ being answered as well as
- NOTE Confidence: 0.9697919
- $00{:}05{:}55{.}115 \dashrightarrow 00{:}05{:}56{.}575$ the safety for the patients
- NOTE Confidence: 0.9697919
- $00:05:56.794 \longrightarrow 00:05:57.675$ that they need to meet
- NOTE Confidence: 0.9697919
- 00:05:57.675 -> 00:05:59.675 those criteria to be eligible
- NOTE Confidence: 0.9697919
- $00{:}05{:}59{.}675 \dashrightarrow 00{:}06{:}01{.}035$ for the trial. If they
- NOTE Confidence: 0.9697919
- $00:06:01.035 \rightarrow 00:06:02.335$ are found to be eligible,

- NOTE Confidence: 0.9697919
- $00{:}06{:}02.555 \dashrightarrow 00{:}06{:}04.095$ then they go ahead and
- NOTE Confidence: 0.9594536
- $00:06:05.770 \longrightarrow 00:06:07.230$ start the trial
- NOTE Confidence: 0.9474217
- $00:06:07.930 \longrightarrow 00:06:09.530$ and continue on the trial
- NOTE Confidence: 0.9474217
- $00{:}06{:}09{.}530 \dashrightarrow 00{:}06{:}10{.}830$ as part of their
- NOTE Confidence: 0.9946352
- 00:06:11.210 --> 00:06:12.590 treatment. So it's not
- NOTE Confidence: 0.9187726
- $00:06:14.650 \longrightarrow 00:06:16.330$ oftentimes in addition to their
- NOTE Confidence: 0.9187726
- 00:06:16.330 --> 00:06:17.310 treatment,
- NOTE Confidence: 0.9978033
- $00{:}06{:}18.085 \dashrightarrow 00{:}06{:}19.125$ that's going to be their
- NOTE Confidence: 0.9978033
- $00{:}06{:}19{.}125 \dashrightarrow 00{:}06{:}20{.}245$ treatment for the
- NOTE Confidence: 0.9978033
- $00:06:20.245 \longrightarrow 00:06:21.205$ period of time that they're
- NOTE Confidence: 0.9978033
- $00:06:21.205 \rightarrow 00:06:21.944$ on the trial.
- NOTE Confidence: 0.94088525
- 00:06:22.724 --> 00:06:23.305 Alyssa, maybe
- NOTE Confidence: 0.9976727
- $00:06:24.245 \longrightarrow 00:06:25.845$ you can comment on this.
- NOTE Confidence: 0.99825776
- $00{:}06{:}26{.}485 \dashrightarrow 00{:}06{:}27{.}944$ It seems to me that
- NOTE Confidence: 0.99973345
- $00:06:28.324 \longrightarrow 00:06:29.705$ people who have cancer
- NOTE Confidence: 0.99937814

- $00:06:30.720 \longrightarrow 00:06:32.580$ are often in a vulnerable
- NOTE Confidence: 0.99937814
- 00:06:32.800 --> 00:06:33.300 position.
- NOTE Confidence: 0.9863518
- $00:06:33.680 \longrightarrow 00:06:35.539$ They are frightened.
- NOTE Confidence: 0.9528373
- $00:06:36.400 \dashrightarrow 00:06:38.979$ They sometimes, if newly diagnosed,
- NOTE Confidence: 0.9528373
- $00{:}06{:}39{.}199 \dashrightarrow 00{:}06{:}40{.}500$ are just overwhelmed
- NOTE Confidence: 0.8423269
- $00:06:41.039 \longrightarrow 00:06:41.779$ by information.
- NOTE Confidence: 0.99069977
- $00:06:42.904 \longrightarrow 00:06:44.664$ And making a decision about
- NOTE Confidence: 0.99069977
- $00:06:44.664 \rightarrow 00:06:46.444$ participating in a clinical trial
- NOTE Confidence: 0.95086926
- $00{:}06{:}47{.}464 \dashrightarrow 00{:}06{:}49{.}245$ can be tough, and
- NOTE Confidence: 0.9993519
- $00:06:49.625 \longrightarrow 00:06:51.164$ you could also imagine
- NOTE Confidence: 0.9618727
- $00:06:51.544 \longrightarrow 00:06:53.005$ that patients at times
- NOTE Confidence: 0.99970907
- $00:06:54.920 \longrightarrow 00:06:57.339$ might feel pressured by
- NOTE Confidence: 0.94818634
- 00:06:58.279 --> 00:07:00.060 someone, a family member,
- NOTE Confidence: 0.8870873
- 00:07:00.920 --> 00:07:02.380 hopefully not a doctor,
- NOTE Confidence: 0.9472304
- $00{:}07{:}02.839 \dashrightarrow 00{:}07{:}04.200$ but some one to participate in
- NOTE Confidence: 0.9472304
- $00{:}07{:}04.200 \dashrightarrow 00{:}07{:}05.480$ the trial. How do we

- NOTE Confidence: 0.9472304
- $00:07:05.480 \longrightarrow 00:07:07.320$ protect people from that sort
- NOTE Confidence: 0.9472304
- $00:07:07.320 \longrightarrow 00:07:07.904$ of thing?
- NOTE Confidence: 0.9936327
- 00:07:08.865 --> 00:07:10.305 Yeah. So I think, Eric,
- NOTE Confidence: 0.97779834
- 00:07:11.185 --> 00:07:12.465 it is, as you said,
- NOTE Confidence: 0.97779834
- 00:07:12.465 --> 00:07:13.505 a scary time a lot
- NOTE Confidence: 0.97779834
- $00{:}07{:}13.505 \dashrightarrow 00{:}07{:}14.565$ of times
- NOTE Confidence: 0.9436357
- $00:07:15.264 \rightarrow 00:07:17.365$ especially in oncology.
- NOTE Confidence: 0.99914587
- $00:07:18.544 \longrightarrow 00:07:19.845$ There's a lot of information
- NOTE Confidence: 0.99914587
- $00:07:19.905 \longrightarrow 00:07:21.605$ coming at them. I think
- NOTE Confidence: 0.9849116
- $00{:}07{:}22.310 \dashrightarrow 00{:}07{:}23.350$ we wanna make sure that
- NOTE Confidence: 0.9849116
- $00{:}07{:}23.350 \dashrightarrow 00{:}07{:}25.110$ our patients feel empowered to
- NOTE Confidence: 0.9849116
- $00:07:25.110 \longrightarrow 00:07:26.390$ be able to ask questions
- NOTE Confidence: 0.9849116
- $00:07:26.390 \longrightarrow 00:07:28.010$ of both of their providers,
- NOTE Confidence: 0.9849116
- $00{:}07{:}28.070 \dashrightarrow 00{:}07{:}29.350$ and, also, we have clinical
- NOTE Confidence: 0.9849116
- $00{:}07{:}29.350 \dashrightarrow 00{:}07{:}31.690$ trial office coordinators and nurses
- NOTE Confidence: 0.9922327

 $00:07:32.070 \longrightarrow 00:07:33.450$ that are there for additional

NOTE Confidence: 0.9922327

 $00{:}07{:}33{.}510$ --> $00{:}07{:}34{.}730$ questions and logistics.

NOTE Confidence: 0.96900606

 $00{:}07{:}35{.}350 \dashrightarrow 00{:}07{:}36{.}470$ But we also have

NOTE Confidence: 0.9944151

 $00:07:37.794 \longrightarrow 00:07:39.235$ patients whose rights are

NOTE Confidence: 0.9944151

 $00{:}07{:}39{.}235 \dashrightarrow 00{:}07{:}41{.}555$ protected. So any clinical research

NOTE Confidence: 0.9944151

00:07:41.555 --> 00:07:42.055 trial

NOTE Confidence: 0.92878044

 $00{:}07{:}42.675 \dashrightarrow 00{:}07{:}44.675$ that's ongoing, as Ian had

NOTE Confidence: 0.92878044

 $00:07:44.675 \dashrightarrow 00:07:46.534$ mentioned, there's the informed consent.

NOTE Confidence: 0.9963853

 $00{:}07{:}47.155 \dashrightarrow 00{:}07{:}48.935$ That informed consent is reviewed

NOTE Confidence: 0.9963853

00:07:48.995 --> 00:07:49.955 by what we call an

NOTE Confidence: 0.9963853

00:07:49.955 --> 00:07:51.574 institutional review board

NOTE Confidence: 0.99908984

 $00:07:51.910 \dashrightarrow 00:07:54.170$ that reviews things for ethical

NOTE Confidence: 0.90119004

 $00{:}07{:}54.550 \dashrightarrow 00{:}07{:}55.990$ reasons, but then also really

NOTE Confidence: 0.90119004

00:07:55.990 --> 00:07:57.030 make sure it

NOTE Confidence: 0.9870738

00:07:57.510 --> 00:07:58.170 accurately

NOTE Confidence: 0.9399963

 $00:07:58.950 \longrightarrow 00:08:00.790$ captures the information of that

- NOTE Confidence: 0.9399963
- $00:08:00.790 \longrightarrow 00:08:01.830$ trial so they do have
- NOTE Confidence: 0.9399963
- $00:08:01.830 \longrightarrow 00:08:03.450$ the information to take home.
- NOTE Confidence: 0.99406713
- $00:08:04.310 \longrightarrow 00:08:05.670$ And it's really in the
- NOTE Confidence: 0.99406713
- $00:08:05.670 \longrightarrow 00:08:07.105$ patient's rights to have that
- NOTE Confidence: 0.99406713
- $00{:}08{:}07{.}105 \dashrightarrow 00{:}08{:}08{.}544$ informed consent and all their
- NOTE Confidence: 0.99406713
- $00{:}08{:}08{.}544 \dashrightarrow 00{:}08{.}09{.}605$ questions answered.
- NOTE Confidence: 0.917397
- $00{:}08{:}10{.}305 \dashrightarrow 00{:}08{:}11{.}185$ So it should be a
- NOTE Confidence: 0.917397
- $00{:}08{:}11.185 \dashrightarrow 00{:}08{:}12.785$ process. It's not a, this
- NOTE Confidence: 0.917397
- $00{:}08{:}12.785 \dashrightarrow 00{:}08{:}13.985$ is presented to you and they need a
- NOTE Confidence: 0.917397
- 00:08:13.985 --> 00:08:15.025 yes or no right away.
- NOTE Confidence: 0.9527923
- $00:08:17.745 \longrightarrow 00:08:18.785$ You can take that back,
- NOTE Confidence: 0.9527923
- 00:08:18.785 --> 00:08:19.905 take it to your
- NOTE Confidence: 0.9527923
- 00:08:19.905 --> 00:08:21.205 family, friends, trusted
- NOTE Confidence: 0.94271696
- $00{:}08{:}23.580 \dashrightarrow 00{:}08{:}24.620$ folks to be able to
- $00:08:26.220 \dashrightarrow 00:08:27.820$ get their questions answered and really
- NOTE Confidence: 0.94271696
- $00:08:27.820 \longrightarrow 00:08:28.560$ be thoughtful

- NOTE Confidence: 0.9996711
- $00{:}08{:}29{.}020 \dashrightarrow 00{:}08{:}30{.}640$ as part of that process.

- 00:08:31.420 --> 00:08:33.500 Also, after joining in a
- NOTE Confidence: 0.90628725
- $00:08:33.500 \longrightarrow 00:08:35.179$ clinical trial, if you agree
- NOTE Confidence: 0.90628725
- $00:08:35.179 \longrightarrow 00:08:35.840$ to participate,
- NOTE Confidence: 0.9678163
- $00{:}08{:}36{.}455 \dashrightarrow 00{:}08{:}37{.}735$ it is in that
- NOTE Confidence: 0.9678163
- 00:08:37.735 --> 00:08:40.075 patient rights to withdraw
- NOTE Confidence: 0.9678163
- $00:08:40.135 \longrightarrow 00:08:41.035$ at any time,
- NOTE Confidence: 0.9681556
- $00{:}08{:}41.495 \dashrightarrow 00{:}08{:}42.715$ and to have that discussion.
- NOTE Confidence: 0.9681556
- $00:08:42.855 \longrightarrow 00:08:44.715$ And that won't impact future
- NOTE Confidence: 0.9681556
- $00:08:44.775 \longrightarrow 00:08:45.275$ decisions,
- NOTE Confidence: 0.99286747
- $00:08:46.615 \longrightarrow 00:08:48.475$ with that ability to withdraw.
- NOTE Confidence: 0.99616486
- 00:08:49.015 --> 00:08:50.295 You know, I often tell
- NOTE Confidence: 0.99616486
- $00:08:50.295 \longrightarrow 00:08:50.795$ patients
- NOTE Confidence: 0.9997252
- $00{:}08{:}51{.}929 \dashrightarrow 00{:}08{:}53{.}389$ that the clinical trials
- NOTE Confidence: 0.9868078
- $00:08:53.769 \longrightarrow 00:08:55.449$ that we have are not
- NOTE Confidence: 0.9868078

 $00:08:55.449 \rightarrow 00:08:57.389$ clinical trials that some doctor

NOTE Confidence: 0.9985709

 $00:08:57.850 \longrightarrow 00:08:59.069$ or other researcher

NOTE Confidence: 0.9584073

00:08:59.850 --> 00:09:01.370 dreamt up some night and

NOTE Confidence: 0.9584073

 $00:09:01.370 \longrightarrow 00:09:02.649$ then put on paper the

NOTE Confidence: 0.9584073

 $00{:}09{:}02{.}649 \dashrightarrow 00{:}09{:}04{.}250$ next morning and offered to

NOTE Confidence: 0.9584073

 $00:09:04.250 \longrightarrow 00:09:06.395$ patients the next day, that

NOTE Confidence: 0.9978162

 $00{:}09{:}07{.}735 \dashrightarrow 00{:}09{:}08{.}635$ these are

NOTE Confidence: 0.99965894

 $00{:}09{:}09{.}255 \dashrightarrow 00{:}09{:}11.115$ ideas that have been developed

NOTE Confidence: 0.9808057

 $00{:}09{:}11.495 \dashrightarrow 00{:}09{:}13.255$ and have been reviewed and

NOTE Confidence: 0.9808057

 $00:09:13.255 \rightarrow 00:09:15.515$ reviewed and reviewed by multiple

NOTE Confidence: 0.9808057

00:09:15.575 --> 00:09:16.554 groups of people,

NOTE Confidence: 0.9951396

00:09:17.895 --> 00:09:19.815 sometimes on a national level,

NOTE Confidence: 0.9951396

 $00:09:19.815 \longrightarrow 00:09:20.315$ sometimes on a

00:09:21.850 --> 00:09:23.610 local level, but in all

NOTE Confidence: 0.98028874

 $00:09:23.610 \longrightarrow 00:09:25.470$ cases, they are very carefully

NOTE Confidence: 0.98028874

 $00{:}09{:}25.610 \dashrightarrow 00{:}09{:}26.110$ vetted.

- $00:09:27.210 \longrightarrow 00:09:28.350$ What kind of review
- NOTE Confidence: 0.99183136
- $00:09:28.730 \longrightarrow 00:09:29.230$ process
- NOTE Confidence: 0.9996573
- $00{:}09{:}30{.}170 \dashrightarrow 00{:}09{:}31{.}070$ goes on
- NOTE Confidence: 0.9996517
- $00:09:31.929 \longrightarrow 00:09:32.429$ locally
- NOTE Confidence: 0.99900764
- 00:09:32.809 --> 00:09:33.850 when we have a
- NOTE Confidence: 0.99900764
- $00:09:33.850 \longrightarrow 00:09:34.830$ clinical trial?
- NOTE Confidence: 0.95065063
- 00:09:35.635 --> 00:09:36.675 Yeah. So I think
- NOTE Confidence: 0.95065063
- $00:09:36.675 \longrightarrow 00:09:37.554$ that's a very
- NOTE Confidence: 0.95065063
- $00:09:37.554 \longrightarrow 00:09:38.274$ good point.
- 00:09:41.235 --> 00:09:42.355 It is quite a
- NOTE Confidence: 0.97525823
- $00:09:42.355 \rightarrow 00:09:44.515$ thorough vetting process. There are
- NOTE Confidence: 0.97525823
- 00:09:44.515 --> 00:09:45.654 multiple committees,
- NOTE Confidence: 0.99908805
- 00:09:46.274 --> 00:09:46.774 both
- NOTE Confidence: 0.93576807
- $00:09:47.154 \longrightarrow 00:09:48.515$ committees made up of the
- NOTE Confidence: 0.93576807
- $00:09:48.515 \longrightarrow 00:09:49.654$ experts of
- NOTE Confidence: 0.9749439
- $00:09:51.600 \longrightarrow 00:09:53.440$ the cancer type that's
- NOTE Confidence: 0.9749439

- $00:09:53.440 \longrightarrow 00:09:55.120$ being evaluated in the clinical
- NOTE Confidence: 0.9749439
- 00:09:55.120 --> 00:09:55.620 trial,
- NOTE Confidence: 0.99973273
- $00:09:56.720 \longrightarrow 00:09:57.460$ as well
- NOTE Confidence: 0.95499676
- $00:09:58.160 \longrightarrow 00:09:59.679$ as experts in a number
- NOTE Confidence: 0.95499676
- $00{:}09{:}59{.}679 \dashrightarrow 00{:}10{:}00{.}880$ of other fields such as
- NOTE Confidence: 0.95499676
- 00:10:00.880 --> 00:10:02.020 statistics and
- NOTE Confidence: 0.97861034
- $00:10:04.925 \longrightarrow 00:10:06.285$ logistics of the trial to
- NOTE Confidence: 0.97861034
- $00{:}10{:}06.285 \dashrightarrow 00{:}10{:}07.345$ make sure it's feasible.
- NOTE Confidence: 0.98276967
- $00{:}10{:}08.365 \dashrightarrow 00{:}10{:}09.825$ And then you have, as
- NOTE Confidence: 0.9665048
- $00{:}10{:}10{.}285 \dashrightarrow 00{:}10{:}12.684$ Alyssa mentioned, the Institutional Review
- NOTE Confidence: 0.9665048
- 00:10:12.684 --> 00:10:14.304 Board, which is looking more
- NOTE Confidence: 0.9665048
- $00{:}10{:}14.445 \dashrightarrow 00{:}10{:}15.964$ at the ethics of the
- NOTE Confidence: 0.9665048
- 00:10:15.964 --> 00:10:17.404 study and making sure patients
- NOTE Confidence: 0.9665048
- $00:10:17.404 \rightarrow 00:10:18.925$ are fully educated about the
- NOTE Confidence: 0.9665048
- 00:10:18.925 --> 00:10:19.425 trial.
- NOTE Confidence: 0.923151
- $00:10:19.880 \longrightarrow 00:10:21.580$ And that consists of both

- NOTE Confidence: 0.923151
- $00:10:21.880 \longrightarrow 00:10:22.860$ medical professionals,
- NOTE Confidence: 0.760525
- $00:10:23.480 \longrightarrow 00:10:24.540$ research professionals,
- NOTE Confidence: 0.9992771
- $00:10:24.840 \longrightarrow 00:10:25.660$ and community
- NOTE Confidence: 0.70931333
- $00:10:26.920 \longrightarrow 00:10:27.420$ representatives to fully
- $00{:}10{:}31{.}160 \dashrightarrow 00{:}10{:}31{.}980$ have the perspective
- NOTE Confidence: 0.9875342
- $00:10:32.684 \longrightarrow 00:10:34.684$ of our community involved in
- NOTE Confidence: 0.9875342
- $00:10:34.684 \longrightarrow 00:10:35.965$ deciding whether a trial is
- NOTE Confidence: 0.9875342
- $00:10:35.965 \rightarrow 00:10:37.565$ appropriate to move forward.
- NOTE Confidence: 0.9875342
- $00{:}10{:}37{.}565 \dashrightarrow 00{:}10{:}38{.}365$ And all of those things are
- NOTE Confidence: 0.9875342
- $00{:}10{:}38{.}365 \dashrightarrow 00{:}10{:}40{.}285$ done both to protect the
- NOTE Confidence: 0.9875342
- $00:10:40.285 \longrightarrow 00:10:41.804$ patient, but also to make
- NOTE Confidence: 0.9875342
- $00:10:41.804 \longrightarrow 00:10:42.845$ sure that the trial is
- NOTE Confidence: 0.9875342
- $00:10:42.845 \longrightarrow 00:10:43.885$ being done in a way
- NOTE Confidence: 0.9875342
- $00{:}10{:}43.885 \dashrightarrow 00{:}10{:}44.385$ that's
- NOTE Confidence: 0.9847637
- $00{:}10{:}45{.}420 \dashrightarrow 00{:}10{:}47{.}260$ optimally designed to be able
- NOTE Confidence: 0.9847637
- $00:10:47.260 \longrightarrow 00:10:48.480$ to answer the question

- NOTE Confidence: 0.93470746
- $00:10:49.020 \longrightarrow 00:10:50.380$ that's being asked, because
- NOTE Confidence: 0.93470746
- $00{:}10{:}50{.}380 \dashrightarrow 00{:}10{:}51{.}740$ we're asking patients
- NOTE Confidence: 0.93470746
- $00:10:51.740 \longrightarrow 00:10:52.780$ to give up of their
- NOTE Confidence: 0.93470746
- 00:10:52.780 --> 00:10:53.280 time
- NOTE Confidence: 0.87861234
- $00{:}10{:}54.620 \dashrightarrow 00{:}10{:}56.000$ to participate in the trial.
- NOTE Confidence: 0.9751266
- $00:10:56.540 \longrightarrow 00:10:57.840$ Trials are very expensive.
- NOTE Confidence: 0.93849236
- $00{:}10{:}58{.}460 \dashrightarrow 00{:}11{:}00{.}195$ So there's a lot that
- NOTE Confidence: 0.93849236
- $00{:}11{:}00{.}195 \dashrightarrow 00{:}11{:}01{.}315$ is involved in the trial.
- NOTE Confidence: 0.93849236
- 00:11:01.315 --> 00:11:01.955 And so we at the
- NOTE Confidence: 0.93849236
- 00:11:01.955 --> 00:11:02.995 end, we really wanna make
- NOTE Confidence: 0.93849236
- $00:11:02.995 \longrightarrow 00:11:04.215$ sure that we're definitively
- NOTE Confidence: 0.88303894
- 00:11:04.755 --> 00:11:05.255 answering
- NOTE Confidence: 0.9864379
- $00:11:05.715 \longrightarrow 00:11:07.155$ an important question to be
- NOTE Confidence: 0.9864379
- $00{:}11{:}07{.}155 \dashrightarrow 00{:}11{:}07{.}895$ able to
- NOTE Confidence: 0.99857545
- $00{:}11{:}08.355 \dashrightarrow 00{:}11{:}09.875$ help our patients moving forward
- NOTE Confidence: 0.99857545

- 00:11:09.875 --> 00:11:11.795 and improve the treatment for
- NOTE Confidence: 0.99857545
- $00{:}11{:}11{.}795 \dashrightarrow 00{:}11{:}12{.}390$ the next
- NOTE Confidence: 0.98537755
- $00:11:13.429 \longrightarrow 00:11:14.570$ generation of patients.
- NOTE Confidence: 0.97381073
- $00{:}11{:}15{.}510 \dashrightarrow 00{:}11{:}16{.}010$ Now
- NOTE Confidence: 0.9699914
- $00{:}11{:}16{.}390 \dashrightarrow 00{:}11{:}17{.}750$ we know that there are
- NOTE Confidence: 0.9699914
- 00:11:17.750 --> 00:11:19.270 many different kinds of trials,
- NOTE Confidence: 0.9699914
- $00{:}11{:}19{.}270 \dashrightarrow 00{:}11{:}20{.}390$ and there are trials that
- NOTE Confidence: 0.9699914
- $00:11:20.390 \longrightarrow 00:11:21.450$ go from being
- NOTE Confidence: 0.99845546
- 00:11:21.910 --> 00:11:23.290 somewhat more investigational
- NOTE Confidence: 0.99621713
- $00:11:23.750 \longrightarrow 00:11:24.970$ to somewhat
- NOTE Confidence: 0.98057985
- $00:11:26.625 \rightarrow 00:11:28.625$ more like standard treatment where
- NOTE Confidence: 0.98057985
- $00{:}11{:}28.625 \dashrightarrow 00{:}11{:}30.384$ we're just bearing one small
- NOTE Confidence: 0.98057985
- $00:11:30.384 \longrightarrow 00:11:31.745$ component to try to see
- NOTE Confidence: 0.98057985
- 00:11:31.745 --> 00:11:33.264 if we can make a
- NOTE Confidence: 0.98057985
- $00{:}11{:}33{.}264 \dashrightarrow 00{:}11{:}35{.}524$ treatment a little less toxic
- NOTE Confidence: 0.98057985
- $00:11:35.665 \longrightarrow 00:11:36.945$ or a little bit more

- NOTE Confidence: 0.98057985
- $00:11:36.945 \longrightarrow 00:11:37.445$ effective.
- NOTE Confidence: 0.9900139
- 00:11:38.370 --> 00:11:39.570 So we often refer to
- NOTE Confidence: 0.9900139
- 00:11:39.570 --> 00:11:40.929 these as phase one and
- NOTE Confidence: 0.9900139
- 00:11:40.929 --> 00:11:42.290 phase two and phase three
- NOTE Confidence: 0.9900139
- 00:11:42.290 --> 00:11:42.790 trials.
- NOTE Confidence: 0.9996282
- 00:11:43.170 --> 00:11:44.130 Could you tell us a
- NOTE Confidence: 0.9996282
- 00:11:44.130 --> 00:11:45.110 little bit about
- NOTE Confidence: 0.99962175
- $00{:}11{:}45{.}490 \dashrightarrow 00{:}11{:}46{.}630$ what each of those
- NOTE Confidence: 0.93595594
- $00:11:47.890 \longrightarrow 00:11:49.970$ consists of?
- NOTE Confidence: 0.93595594
- $00:11:49.970 \longrightarrow 00:11:50.690$ In a very
- NOTE Confidence: 0.93595594
- $00:11:50.690 \rightarrow 00:11:51.590$ concise way,
- NOTE Confidence: 0.9680412
- 00:11:52.554 --> 00:11:53.995 the first trial
- NOTE Confidence: 0.9680412
- $00:11:53.995 \longrightarrow 00:11:55.515$ is a phase one trial
- NOTE Confidence: 0.9680412
- 00:11:55.515 --> 00:11:57.595 where we're initially looking at
- NOTE Confidence: 0.9680412
- $00:11:57.595 \longrightarrow 00:11:58.475$ a drug for the first
- NOTE Confidence: 0.9680412

 $00:11:58.475 \longrightarrow 00:12:00.095$ time in patients and that's

NOTE Confidence: 0.9680412

00:12:00.235 --> 00:12:01.675 purely just making sure that

NOTE Confidence: 0.9680412

00:12:01.675 --> 00:12:02.635 it's safe to give the

NOTE Confidence: 0.9680412

 $00{:}12{:}02.635 \dashrightarrow 00{:}12{:}04.050$ drug and that we figure

NOTE Confidence: 0.9680412

 $00:12:04.050 \longrightarrow 00:12:05.090$ out what the right dose is.

 $00{:}12{:}06.050 \dashrightarrow 00{:}12{:}07.410$ That's a small trial with

NOTE Confidence: 0.9680412

 $00:12:07.410 \longrightarrow 00:12:09.170$ generally maybe only twenty or

NOTE Confidence: 0.9680412

 $00:12:09.170 \longrightarrow 00:12:09.990$ thirty patients.

NOTE Confidence: 0.95550406

00:12:11.010 --> 00:12:12.130 And if I can

NOTE Confidence: 0.95550406

 $00{:}12{:}12{.}130 \dashrightarrow 00{:}12{:}13{.}330$ just interrupt and to be

NOTE Confidence: 0.95550406

 $00:12:13.330 \longrightarrow 00:12:14.929$ clear, that's the endpoint of

NOTE Confidence: 0.95550406

 $00:12:14.929 \longrightarrow 00:12:16.290$ the trial, although when a

NOTE Confidence: 0.95550406

 $00{:}12{:}16{.}290 \dashrightarrow 00{:}12{:}17{.}970$ doctor is treating a patient,

NOTE Confidence: 0.95550406

 $00{:}12{:}17{.}970 \dashrightarrow 00{:}12{:}19{.}170$ it's with the hope that

NOTE Confidence: 0.95550406

 $00:12:19.170 \longrightarrow 00:12:20.605$ that drug will help someone.

NOTE Confidence: 0.97756857

 $00:12:20.985 \rightarrow 00:12:22.504$ That is correct.

- $00{:}12{:}22{.}504 \dashrightarrow 00{:}12{:}23{.}785$ And that is also looked
- NOTE Confidence: 0.97756857
- $00{:}12{:}23.785 \dashrightarrow 00{:}12{:}24.824$ at in the trial. But
- NOTE Confidence: 0.97756857
- $00{:}12{:}24.824 \dashrightarrow 00{:}12{:}26.264$ as you said, the
- NOTE Confidence: 0.97756857
- $00:12:26.264 \longrightarrow 00:12:28.264$ primary purpose is to just
- NOTE Confidence: 0.97756857
- $00{:}12{:}28{.}264 \dashrightarrow 00{:}12{:}29{.}545$ establish the safety and the
- NOTE Confidence: 0.97756857
- $00{:}12{:}29.545 \dashrightarrow 00{:}12{:}30.285$ right dose.
- NOTE Confidence: 0.97939473
- 00:12:30.665 --> 00:12:32.125 Nowadays, because our
- NOTE Confidence: 0.9994972
- $00:12:32.459 \longrightarrow 00:12:33.439$ drugs are so
- NOTE Confidence: 0.9739999
- $00{:}12{:}34.059 \dashrightarrow 00{:}12{:}35.420$ sophisticated, as soon as they
- NOTE Confidence: 0.9739999
- $00:12:35.420 \longrightarrow 00:12:36.459$ come out of the lab,
- NOTE Confidence: 0.9739999
- 00:12:36.459 --> 00:12:38.139 oftentimes, we actually see, you
- NOTE Confidence: 0.9739999
- 00:12:38.139 --> 00:12:39.179 know, a great deal of
- NOTE Confidence: 0.9739999
- $00:12:39.579 \longrightarrow 00:12:41.179$ effectiveness in that even in
- NOTE Confidence: 0.9739999
- $00:12:41.179 \longrightarrow 00:12:42.079$ that first trial.
- NOTE Confidence: 0.9379518
- $00{:}12{:}43.259 \dashrightarrow 00{:}12{:}44.459$ And in a phase two
- NOTE Confidence: 0.9379518
- $00:12:44.459 \longrightarrow 00:12:44.959$ trial?

- NOTE Confidence: 0.98543406
- $00:12:46.095 \longrightarrow 00:12:47.215$ So a phase two trial
- NOTE Confidence: 0.98543406
- $00{:}12{:}47{.}215 \dashrightarrow 00{:}12{:}48{.}575$ is a slightly larger trial
- NOTE Confidence: 0.98543406
- $00:12:48.575 \rightarrow 00:12:49.855$ where we're now really trying
- NOTE Confidence: 0.98543406
- 00:12:49.855 --> 00:12:51.535 to focus on how effective
- NOTE Confidence: 0.98543406
- $00{:}12{:}51{.}535 \dashrightarrow 00{:}12{:}52{.}675$ that drug is,
- NOTE Confidence: 0.93772733
- $00{:}12{:}53.295 \dashrightarrow 00{:}12{:}55.315$ for that particular patient population.
- NOTE Confidence: 0.97796357
- $00:12:55.855 \longrightarrow 00:12:57.455$ And then if it shows
- NOTE Confidence: 0.97796357
- $00{:}12{:}57{.}455 \dashrightarrow 00{:}12{:}58{.}110$ to be
- NOTE Confidence: 0.99959046
- $00:12:58.589 \longrightarrow 00:12:59.089$ effective
- NOTE Confidence: 0.941303
- 00:12:59.550 --> 00:13:00.910 and promising, it then moves
- NOTE Confidence: 0.941303
- $00{:}13{:}00{.}910 \dashrightarrow 00{:}13{:}02{.}110$ to a phase three trial
- NOTE Confidence: 0.941303
- $00:13:02.110 \longrightarrow 00:13:03.950$ where that trial drug is
- NOTE Confidence: 0.941303
- $00:13:03.950 \longrightarrow 00:13:04.769$ being compared
- NOTE Confidence: 0.9952408
- $00{:}13{:}05{.}470 \dashrightarrow 00{:}13{:}06{.}750$ to the current standard of
- NOTE Confidence: 0.9952408
- $00{:}13{:}06{.}750 \dashrightarrow 00{:}13{:}07{.}950$ care to see which one
- NOTE Confidence: 0.9952408

 $00:13:07.950 \longrightarrow 00:13:09.730$ actually is more effective.

NOTE Confidence: 0.99707586

 $00:13:10.829 \rightarrow 00:13:12.610$ Well, that is very helpful.

NOTE Confidence: 0.98564875

00:13:13.505 --> 00:13:15.105 We're gonna just take a

NOTE Confidence: 0.98564875

00:13:15.105 --> 00:13:16.625 very brief break, and we'll

NOTE Confidence: 0.98564875

 $00{:}13{:}16.625 \dashrightarrow 00{:}13{:}18.165$ be back with our guests

NOTE Confidence: 0.80775195

00:13:19.105 --> 00:13:21.125 Alyssa Gateman and Ian Krop

NOTE Confidence: 0.80775195

 $00:13:21.184 \longrightarrow 00:13:22.725$ in just a minute.

NOTE Confidence: 0.9568745

00:13:23.184 --> 00:13:24.865 Funding for Yale Cancer Answers

NOTE Confidence: 0.9568745

00:13:24.865 --> 00:13:26.804 comes from Smilow Cancer Hospital,

NOTE Confidence: 0.9748314

 $00:13:27.200 \rightarrow 00:13:28.800$ where the Lung Cancer Screening

NOTE Confidence: 0.9748314

 $00:13:28.800 \longrightarrow 00:13:30.480$ Program provides screening to those

NOTE Confidence: 0.9748314

 $00:13:30.480 \longrightarrow 00:13:31.940$ at risk for lung cancer

NOTE Confidence: 0.9748314

 $00{:}13{:}32{.}080 \dashrightarrow 00{:}13{:}32{.}980$ and individualized

NOTE Confidence: 0.96851003

 $00{:}13{:}33{.}440 \dashrightarrow 00{:}13{:}34{.}660$ state of the art evaluation

NOTE Confidence: 0.96851003

 $00{:}13{:}34{.}800 \dashrightarrow 00{:}13{:}35{.}860$ of lung nodules.

NOTE Confidence: 0.9715599

00:13:36.320 --> 00:13:38.020 To learn more, visit smilowcancerhospital

- NOTE Confidence: 0.9954567
- 00:13:38.960 --> 00:13:39.779 dot org.
- NOTE Confidence: 0.9800803
- 00:13:41.485 --> 00:13:42.765 Over two hundred and thirty
- NOTE Confidence: 0.9800803
- $00{:}13{:}42.765 \dashrightarrow 00{:}13{:}44.625$ thousand Americans will be diagnosed
- NOTE Confidence: 0.9800803
- $00:13:44.684 \rightarrow 00:13:46.445$ with lung cancer this year,
- NOTE Confidence: 0.9800803
- $00:13:46.445 \longrightarrow 00:13:47.965$ and in Connecticut alone, there
- NOTE Confidence: 0.9800803
- 00:13:47.965 --> 00:13:49.245 will be over twenty seven
- NOTE Confidence: 0.9800803
- $00{:}13{:}49{.}245 \dashrightarrow 00{:}13{:}50{.}385$ hundred new cases.
- NOTE Confidence: 0.9751513
- 00:13:50.845 --> 00:13:52.125 More than eighty five percent
- NOTE Confidence: 0.9751513
- $00{:}13{:}52{.}125 \dashrightarrow 00{:}13{:}54{.}045$ of lung cancer diagnoses are
- NOTE Confidence: 0.9751513
- 00:13:54.045 --> 00:13:55.184 related to smoking,
- NOTE Confidence: 0.9844599
- $00:13:55.629 \rightarrow 00:13:57.470$ and quitting, even after decades
- NOTE Confidence: 0.9844599
- $00{:}13{:}57{.}470 \dashrightarrow 00{:}13{:}59{.}389$ of use can significantly reduce
- NOTE Confidence: 0.9844599
- 00:13:59.389 --> 00:14:00.910 your risk of developing lung
- NOTE Confidence: 0.9844599
- 00:14:00.910 --> 00:14:01.410 cancer.
- NOTE Confidence: 0.966442
- $00:14:01.949 \longrightarrow 00:14:03.389$ Each day, patients with lung
- NOTE Confidence: 0.966442

 $00:14:03.389 \longrightarrow 00:14:05.309$ cancer are surviving thanks to

NOTE Confidence: 0.966442

 $00{:}14{:}05{.}309 \dashrightarrow 00{:}14{:}07{.}230$ increased access to advanced the rapies

NOTE Confidence: 0.966442

 $00:14:07.230 \longrightarrow 00:14:08.689$ and specialized care.

NOTE Confidence: 0.9969157

 $00{:}14{:}09.065 \dashrightarrow 00{:}14{:}10.745$ New treatment options and surgical

NOTE Confidence: 0.9969157

00:14:10.745 -> 00:14:12.345 techniques are giving lung cancer

NOTE Confidence: 0.9969157

 $00:14:12.345 \longrightarrow 00:14:13.625$ survivors more hope than they

NOTE Confidence: 0.9969157

 $00:14:13.625 \longrightarrow 00:14:14.765$ have ever had before.

NOTE Confidence: 0.9818846

00:14:15.385 --> 00:14:17.225 Clinical trials are currently underway

NOTE Confidence: 0.9818846

 $00{:}14{:}17{.}225 \dashrightarrow 00{:}14{:}19{.}865$ at federally designated comprehensive cancer

NOTE Confidence: 0.9818846

 $00{:}14{:}19.865 \dashrightarrow 00{:}14{:}20.365$ centers

NOTE Confidence: 0.8968569

 $00{:}14{:}20.760 \dashrightarrow 00{:}14{:}22.120$ such as the battle two

NOTE Confidence: 0.8968569

00:14:22.120 --> 00:14:23.640 trial at Yale Cancer Center

NOTE Confidence: 0.8968569

00:14:23.640 --> 00:14:25.260 and Smilow Cancer Hospital,

NOTE Confidence: 0.9912487

 $00:14:25.800 \longrightarrow 00:14:26.840$ to learn if a drug

NOTE Confidence: 0.9912487

 $00{:}14{:}26.840 \dashrightarrow 00{:}14{:}28.600$ or combination of drugs based

NOTE Confidence: 0.9912487

00:14:28.600 --> 00:14:29.900 on personal biomarkers

- NOTE Confidence: 0.9938679
- $00{:}14{:}30{.}280 \dashrightarrow 00{:}14{:}31{.}720$ can help to control non
- NOTE Confidence: 0.9938679
- $00:14:31.720 \longrightarrow 00:14:33.180$ small cell lung cancer.
- NOTE Confidence: 0.98914665
- $00{:}14{:}33.665 \dashrightarrow 00{:}14{:}35.345$ More information is available at
- NOTE Confidence: 0.98914665
- 00:14:35.345 --> 00:14:37.125 yale cancer center dot org.
- NOTE Confidence: 0.98914665
- $00{:}14{:}37{.}345 \dashrightarrow 00{:}14{:}39{.}024$ You're listening to Connecticut Public
- NOTE Confidence: 0.98914665
- $00{:}14{:}39{.}024 \dashrightarrow 00{:}14{:}39{.}524$ Radio.
- NOTE Confidence: 0.95389307
- $00:14:40.464 \longrightarrow 00:14:42.064$ Good evening again. This is
- NOTE Confidence: 0.95389307
- $00:14:42.064 \rightarrow 00:14:43.985$ Eric Winer. I'm the director
- NOTE Confidence: 0.95389307
- 00:14:43.985 --> 00:14:45.764 of Yale Cancer Center,
- NOTE Confidence: 0.95389307
- $00{:}14{:}45{.}904 \dashrightarrow 00{:}14{:}48{.}630$ and I'm here to night on
- NOTE Confidence: 0.95389307
- 00:14:48.790 --> 00:14:50.470 Yale Cancer Answers with my
- NOTE Confidence: 0.95389307
- $00:14:50.470 \longrightarrow 00:14:50.970$ guests
- NOTE Confidence: 0.6716644
- 00:14:51.350 --> 00:14:52.810 doctor Ian Krop
- NOTE Confidence: 0.9574543
- $00{:}14{:}53.830 \dashrightarrow 00{:}14{:}55.350$ who is the director of
- NOTE Confidence: 0.9574543
- $00:14:55.350 \longrightarrow 00:14:56.710$ the clinical trials office, and
- NOTE Confidence: 0.9574543

 $00{:}14{:}56{.}710 \dashrightarrow 00{:}14{:}58{.}550$ Alyssa Gateman, the executive director

NOTE Confidence: 0.9574543

 $00:14:58.550 \longrightarrow 00:15:00.250$ of the clinical trials office.

NOTE Confidence: 0.9547268

00:15:02.175 --> 00:15:03.455 Alyssa, maybe I can start

NOTE Confidence: 0.9547268

 $00:15:03.455 \longrightarrow 00:15:04.195$ with you.

NOTE Confidence: 0.91524994

 $00:15:06.735 \longrightarrow 00:15:08.115$ Why is it important

NOTE Confidence: 0.99986494

 $00{:}15{:}09{.}375 \dashrightarrow 00{:}15{:}09{.}875$ that

NOTE Confidence: 0.99855673

 $00{:}15{:}10.495 \dashrightarrow 00{:}15{:}12.255$ we include a diverse group

NOTE Confidence: 0.99855673

 $00:15:12.255 \rightarrow 00:15:14.115$ of people in clinical trials?

NOTE Confidence: 0.99855673

00:15:14.255 --> 00:15:15.375 I think there's been a

NOTE Confidence: 0.99855673

00:15:15.375 --> 00:15:16.995 tendency in years past

NOTE Confidence: 0.98766166

 $00:15:17.600 \rightarrow 00:15:19.520$ for our clinical trials population

NOTE Confidence: 0.98766166

 $00:15:19.520 \longrightarrow 00:15:20.980$ to look a little homogeneous,

NOTE Confidence: 0.98411775

 $00{:}15{:}21.440 \dashrightarrow 00{:}15{:}23.040$ and we're all worried about

NOTE Confidence: 0.98411775

00:15:23.040 --> 00:15:24.320 that. And we wanna make

NOTE Confidence: 0.98411775

 $00{:}15{:}24{.}320 \dashrightarrow 00{:}15{:}26{.}720$ sure that that's something that

NOTE Confidence: 0.98411775

 $00:15:26.720 \longrightarrow 00:15:28.020$ that doesn't continue.

- $00:15:30.715 \longrightarrow 00:15:31.535$ So diversity
- NOTE Confidence: 0.99895394
- $00:15:31.915 \longrightarrow 00:15:33.435$ and inclusion in our clinical
- NOTE Confidence: 0.99895394
- $00{:}15{:}33{.}435 \dashrightarrow 00{:}15{:}35{.}595$ trials is extremely important. At
- NOTE Confidence: 0.99895394
- $00:15:35.595 \longrightarrow 00:15:36.575$ the end of the day,
- NOTE Confidence: 0.99895394
- 00:15:36.715 --> 00:15:38.015 our clinical research
- NOTE Confidence: 0.997103
- $00{:}15{:}39{.}115 \dashrightarrow 00{:}15{:}40{.}475$ is putting new products and
- NOTE Confidence: 0.997103
- $00{:}15{:}40.475 \dashrightarrow 00{:}15{:}42.715$ new treatments out for the
- NOTE Confidence: 0.997103
- $00:15:42.715 \longrightarrow 00:15:44.395$ population. So what we're really
- NOTE Confidence: 0.997103
- $00{:}15{:}44{.}395 \dashrightarrow 00{:}15{:}45{.}615$ looking for is
- NOTE Confidence: 0.99919826
- $00:15:46.050 \rightarrow 00:15:46.550$ generalizability
- NOTE Confidence: 0.99962026
- $00{:}15{:}47.010 \dashrightarrow 00{:}15{:}48.310$ of research results.
- NOTE Confidence: 0.9991372
- $00:15:48.850 \longrightarrow 00:15:49.990$ If we have a homogeneous
- NOTE Confidence: 0.99948287
- 00:15:50.529 --> 00:15:51.029 population,
- NOTE Confidence: 0.9888104
- $00:15:51.730 \longrightarrow 00:15:53.170$ we only really get answers
- NOTE Confidence: 0.9888104
- $00{:}15{:}53{.}170 \dashrightarrow 00{:}15{:}54{.}930$ on that population on how
- NOTE Confidence: 0.9888104
- $00:15:54.930 \longrightarrow 00:15:56.130$ it works. And there are

- NOTE Confidence: 0.9888104
- 00:15:56.130 --> 00:15:58.310 differences. There's differences between genders.
- NOTE Confidence: 0.9986214
- $00:15:58.775 \rightarrow 00:16:00.695$ There's differences between ages. There's
- NOTE Confidence: 0.9986214
- $00{:}16{:}00{.}695 \dashrightarrow 00{:}16{:}02.855$ differences between racial and ethnic
- NOTE Confidence: 0.9986214
- $00{:}16{:}02.855 \dashrightarrow 00{:}16{:}03.355$ groups.
- NOTE Confidence: 0.9879118
- $00{:}16{:}03.735 \dashrightarrow 00{:}16{:}06.135$ So ensuring that the entire
- NOTE Confidence: 0.9879118
- $00:16:06.135 \longrightarrow 00:16:07.735$ population that's going to be
- NOTE Confidence: 0.9879118
- $00:16:07.735 \rightarrow 00:16:09.515$ treated with that product potentially
- NOTE Confidence: 0.987437
- $00:16:10.215 \longrightarrow 00:16:11.895$ is included in those research
- NOTE Confidence: 0.987437
- 00:16:11.895 --> 00:16:12.395 studies,
- NOTE Confidence: 0.9970601
- $00:16:13.220 \longrightarrow 00:16:14.660$ is really important so that
- NOTE Confidence: 0.9970601
- $00:16:14.660 \longrightarrow 00:16:16.100$ we can understand all the
- NOTE Confidence: 0.9970601
- $00:16:16.100 \rightarrow 00:16:18.259$ different potential side effects and
- NOTE Confidence: 0.9970601
- $00{:}16{:}18.259 \dashrightarrow 00{:}16{:}20.100$ the different effectiveness
- NOTE Confidence: 0.9970601
- $00:16:20.100 \longrightarrow 00:16:21.720$ for those patients that ultimately
- NOTE Confidence: 0.9970601
- $00:16:21.860 \rightarrow 00:16:23.399$ may be receiving those therapies.
- NOTE Confidence: 0.99935955

 $00{:}16{:}24{.}500 \dashrightarrow 00{:}16{:}25{.}000$ And

NOTE Confidence: 0.9941098

00:16:25.625 --> 00:16:27.464 we and others have pushed

NOTE Confidence: 0.9941098

 $00:16:27.464 \longrightarrow 00:16:28.925$ very hard to

NOTE Confidence: 0.9997336

 $00{:}16{:}29{.}385 \dashrightarrow 00{:}16{:}30{.}605$ make sure that

NOTE Confidence: 0.9844002

00:16:30.985 --> 00:16:33.065 our clinical trials do include

NOTE Confidence: 0.9844002

 $00:16:33.065 \rightarrow 00:16:34.585$ a diverse group of patients.

NOTE Confidence: 0.9844002

 $00:16:34.585 \longrightarrow 00:16:36.265$ And, of course, there have been

 $00{:}16{:}37.145 \dashrightarrow 00{:}16{:}39.245$ research findings over the past

NOTE Confidence: 0.99946713

 $00:16:39.430 \longrightarrow 00:16:41.110$ couple of decades that have

NOTE Confidence: 0.99946713

 $00:16:41.110 \longrightarrow 00:16:42.010$ shown that

NOTE Confidence: 0.98827463

 $00:16:42.470 \longrightarrow 00:16:44.390$ many people who are from

NOTE Confidence: 0.98827463

 $00{:}16{:}44{.}390 \dashrightarrow 00{:}16{:}46{.}470$ under represented backgrounds just don't get

NOTE Confidence: 0.98827463

 $00{:}16{:}46{.}470 \dashrightarrow 00{:}16{:}48{.}310$ offered clinical trials as often

NOTE Confidence: 0.98827463

 $00:16:48.310 \longrightarrow 00:16:49.670$ as others, and so

NOTE Confidence: 0.98827463

 $00{:}16{:}49{.}670 \dashrightarrow 00{:}16{:}51{.}270$ we really try to do

NOTE Confidence: 0.98827463

 $00:16:51.270 \longrightarrow 00:16:52.710$ that as do people around

- $00:16:52.710 \longrightarrow 00:16:53.370$ the country.
- NOTE Confidence: 0.99483067
- 00:16:54.605 --> 00:16:55.885 I wanna move on to
- NOTE Confidence: 0.99483067
- $00{:}16{:}55{.}885 \dashrightarrow 00{:}16{:}57{.}265$ talk for a minute about
- NOTE Confidence: 0.99483067
- 00:16:57.405 --> 00:16:59.185 myths about clinical trials.
- 00:17:02.765 --> 00:17:03.265 Ian,
- NOTE Confidence: 0.9970736
- 00:17:03.885 --> 00:17:05.585 I'm sure you've had patients
- NOTE Confidence: 0.9970736
- $00{:}17{:}05{.}805 \dashrightarrow 00{:}17{:}07{.}244$ say to you over the
- NOTE Confidence: 0.9970736
- $00:17:07.244 \rightarrow 00:17:07.744$ years,
- NOTE Confidence: 0.89651275
- 00:17:08.859 --> 00:17:09.919 doctor Krop,
- NOTE Confidence: 0.9949833
- 00:17:10.380 --> 00:17:11.679 don't you just wanna
- NOTE Confidence: 0.9856518
- $00:17:11.980 \longrightarrow 00:17:13.740$ use me as a guinea
- NOTE Confidence: 0.9856518
- 00:17:13.740 --> 00:17:14.240 pig?
- NOTE Confidence: 0.9973546
- $00{:}17{:}14.859 \dashrightarrow 00{:}17{:}15.359$ And
- NOTE Confidence: 0.99549836
- $00:17:16.460 \longrightarrow 00:17:17.580$ how do you answer that
- NOTE Confidence: 0.99549836
- $00:17:17.580 \longrightarrow 00:17:18.080$ question?
- $00{:}17{:}22.115 \dashrightarrow 00{:}17{:}23.335$ I think that's an important
- NOTE Confidence: 0.95179313
- 00:17:23.635 --> 00:17:25.255 point to clarify

- NOTE Confidence: 0.95179313
- $00:17:25.395 \longrightarrow 00:17:26.515$ because there is that myth
- NOTE Confidence: 0.95179313
- $00{:}17{:}26{.}515 \dashrightarrow 00{:}17{:}27{.}255$ out there.
- NOTE Confidence: 0.9585145
- 00:17:28.035 --> 00:17:29.715 And I think as Alyssa very
- $00:17:35.010 \rightarrow 00:17:37.330$ eloquently stated, how important it is for
- NOTE Confidence: 0.8655472
- $00:17:41.890 \longrightarrow 00:17:43.250$ anybody on a trial
- NOTE Confidence: 0.8655472
- $00{:}17{:}43.250 \dashrightarrow 00{:}17{:}44.630$ that their rights are protected
- NOTE Confidence: 0.8655472
- $00:17:44.770 \longrightarrow 00:17:46.455$ and that the safety
- NOTE Confidence: 0.94272494
- $00:17:47.015 \longrightarrow 00:17:48.635$ of them is paramount
- NOTE Confidence: 0.94272494
- $00{:}17{:}48.695 \dashrightarrow 00{:}17{:}50.375$ and an enormous amount
- NOTE Confidence: 0.94272494
- $00{:}17{:}50{.}375 \dashrightarrow 00{:}17{:}51{.}894$ of work goes into making
- NOTE Confidence: 0.94272494
- $00:17:51.894 \rightarrow 00:17:53.174$ sure that is actually
- NOTE Confidence: 0.94272494
- $00{:}17{:}53{.}174 \dashrightarrow 00{:}17{:}53{.}835$ the case.
- NOTE Confidence: 0.9188552
- 00:17:55.095 --> 00:17:56.154 But, you know,
- NOTE Confidence: 0.90994895
- $00:17:56.534 \longrightarrow 00:17:57.414$ again, I think a
- NOTE Confidence: 0.90994895
- $00{:}17{:}57{.}414 \dashrightarrow 00{:}17{:}58{.}394$ clinical trial,
- NOTE Confidence: 0.8469146
- 00:17:59.609 --> 00:18:00.109 particularly

- NOTE Confidence: 0.9872157
- $00:18:02.250 \longrightarrow 00:18:03.470$ in this day and age,
- NOTE Confidence: 0.94671667
- $00{:}18{:}04{.}490 \dashrightarrow 00{:}18{:}06{.}270$ is the way to get
- NOTE Confidence: 0.9661524
- 00:18:07.050 --> 00:18:08.570 access to the
- NOTE Confidence: 0.9661524
- $00:18:08.570 \rightarrow 00:18:10.030$ most cutting edge treatments,
- $00{:}18{:}13{.}450 \dashrightarrow 00{:}18{:}14{.}109$ and I think
- NOTE Confidence: 0.98514795
- 00:18:14.425 --> 00:18:15.965 those of us
- NOTE Confidence: 0.9793781
- 00:18:16.505 --> 00:18:17.785 at Yale Cancer Center
- NOTE Confidence: 0.9793781
- $00:18:17.785 \longrightarrow 00:18:19.385$ feel that a clinical trial
- NOTE Confidence: 0.9793781
- $00{:}18{:}19{.}385 \dashrightarrow 00{:}18{:}21{.}085$ is really part of
- 00:18:23.785 --> 00:18:25.885 top quality
- NOTE Confidence: 0.9701948
- $00:18:26.744 \longrightarrow 00:18:28.045$ cancer care now,
- NOTE Confidence: 0.9723955
- $00{:}18{:}29.010 \dashrightarrow 00{:}18{:}30.609$ having access to clinical trials
- NOTE Confidence: 0.9723955
- $00:18:30.609 \longrightarrow 00:18:31.430$ is really
- NOTE Confidence: 0.8201409
- 00:18:31.970 --> 00:18:32.470 critical,
- NOTE Confidence: 0.98120844
- $00{:}18{:}33{.}890 \dashrightarrow 00{:}18{:}34{.}630$ for that.
- 00:18:36.450 --> 00:18:37.330 And getting back to
- NOTE Confidence: 0.98812723
- $00:18:37.330 \longrightarrow 00:18:38.690$ your previous question about the

- NOTE Confidence: 0.98812723
- $00{:}18{:}38{.}690 \dashrightarrow 00{:}18{:}39{.}890$ need to make sure that
- NOTE Confidence: 0.98812723
- $00{:}18{:}39{.}890 \dashrightarrow 00{:}18{:}41{.}270$ we have a diverse population,
- NOTE Confidence: 0.97982585
- 00:18:41.570 --> 00:18:42.645 I think not only do
- NOTE Confidence: 0.97982585
- $00:18:42.645 \longrightarrow 00:18:43.685$ we need a diverse population
- NOTE Confidence: 0.97982585
- $00:18:43.685 \longrightarrow 00:18:44.805$ in our clinical trials so
- NOTE Confidence: 0.97982585
- 00:18:44.805 --> 00:18:45.845 that we can make sure
- NOTE Confidence: 0.97982585
- $00:18:45.845 \longrightarrow 00:18:47.285$ that the results we get
- NOTE Confidence: 0.97982585
- $00:18:47.285 \longrightarrow 00:18:49.625$ are applicable to all groups,
- NOTE Confidence: 0.9993297
- 00:18:50.405 --> 00:18:51.705 I think it's also
- NOTE Confidence: 0.9572502
- $00{:}18{:}52{.}405 \dashrightarrow 00{:}18{:}54{.}085$ a disparities issue. I think
- NOTE Confidence: 0.9572502
- $00:18:54.085 \rightarrow 00:18:55.525$ if people don't have
- NOTE Confidence: 0.9572502
- 00:18:55.525 --> 00:18:56.505 access to
- NOTE Confidence: 0.9898226
- $00:18:56.830 \longrightarrow 00:18:57.810$ clinical trials,
- NOTE Confidence: 0.9932828
- $00{:}18{:}58{.}590 \dashrightarrow 00{:}18{:}59{.}890$ where they're being seen,
- NOTE Confidence: 0.99952394
- $00{:}19{:}00{.}350 \dashrightarrow 00{:}19{:}01{.}890$ they don't have access to
- NOTE Confidence: 0.87884665

- $00:19:02.910 \longrightarrow 00:19:04.350$ to the optimal care.
- NOTE Confidence: 0.87884665
- 00:19:04.350 --> 00:19:05.550 And I think that's
- NOTE Confidence: 0.87884665
- $00:19:05.550 \longrightarrow 00:19:06.910$ another reason why
- NOTE Confidence: 0.986191
- $00:19:07.310 \longrightarrow 00:19:08.510$ at Yale Cancer Center we try to
- 00:19:09.150 --> 00:19:10.270 make sure we have access
- NOTE Confidence: 0.986191
- $00{:}19{:}10.270 \dashrightarrow 00{:}19{:}11.390$ to clinical trials for our
- NOTE Confidence: 0.986191
- 00:19:11.390 --> 00:19:12.925 patients across all
- NOTE Confidence: 0.986191
- $00:19:12.925 \longrightarrow 00:19:14.525$ of our sites
- NOTE Confidence: 0.986191
- 00:19:14.525 --> 00:19:15.425 across Connecticut.
- NOTE Confidence: 0.9642289
- $00:19:16.445 \longrightarrow 00:19:18.865$ And while there are obviously
- NOTE Confidence: 0.9642289
- $00:19:18.925 \longrightarrow 00:19:19.744$ no guarantees
- NOTE Confidence: 0.98820686
- $00:19:20.045 \rightarrow 00:19:21.805$ when someone receives a standard
- NOTE Confidence: 0.98820686
- $00{:}19{:}21.805 \dashrightarrow 00{:}19{:}22.865$ treatment or
- NOTE Confidence: 0.9567893
- $00:19:23.244 \longrightarrow 00:19:24.465$ when they're on a clinical
- NOTE Confidence: 0.9567893
- 00:19:24.525 --> 00:19:25.025 trial, the
- 00:19:26.685 --> 00:19:27.905 hope when people
- NOTE Confidence: 0.9973848
- $00:19:28.420 \longrightarrow 00:19:30.180$ develop clinical trials is that

- NOTE Confidence: 0.9973848
- $00:19:30.180 \rightarrow 00:19:31.859$ the treatment is actually going
- NOTE Confidence: 0.9973848
- $00:19:31.859 \longrightarrow 00:19:33.140$ to be better in one
- NOTE Confidence: 0.9973848
- $00:19:33.140 \longrightarrow 00:19:34.040$ way or another.
- NOTE Confidence: 0.9993789
- 00:19:34.580 --> 00:19:36.520 We don't go into clinical
- NOTE Confidence: 0.9993789
- 00:19:36.580 --> 00:19:37.080 trials
- NOTE Confidence: 0.96400315
- $00:19:37.780 \longrightarrow 00:19:38.280$ intending
- NOTE Confidence: 0.9873894
- $00:19:38.740 \longrightarrow 00:19:40.020$ to come up with a
- NOTE Confidence: 0.9873894
- $00:19:40.020 \longrightarrow 00:19:42.115$ worse result, and it doesn't
- NOTE Confidence: 0.9873894
- 00:19:42.115 --> 00:19:42.615 happen
- NOTE Confidence: 0.97819155
- 00:19:42.915 --> 00:19:45.315 very often. Although, again, there
- NOTE Confidence: 0.97819155
- $00:19:45.315 \longrightarrow 00:19:47.575$ can be no guarantees.
- NOTE Confidence: 0.99867314
- 00:19:49.955 --> 00:19:51.315 Can you give us some
- NOTE Confidence: 0.99867314
- $00:19:51.315 \longrightarrow 00:19:51.815$ examples
- NOTE Confidence: 0.9866709
- 00:19:52.915 --> 00:19:54.695 of some of the break
throughs
- NOTE Confidence: 0.9866709
- $00:19:54.835 \longrightarrow 00:19:56.250$ we've seen in the last
- NOTE Confidence: 0.9866709

- $00:19:56.330 \longrightarrow 00:19:57.550$ five to ten years,
- NOTE Confidence: 0.85240024
- $00:19:58.090 \rightarrow 00:19:58.590$ and,
- NOTE Confidence: 0.9996465
- $00:19:59.930 \longrightarrow 00:20:00.910$ there are many
- NOTE Confidence: 0.98959285
- $00{:}20{:}01{.}369 \dashrightarrow 00{:}20{:}02{.}650$ that have come about as
- NOTE Confidence: 0.98959285
- $00{:}20{:}02{.}650 \dashrightarrow 00{:}20{:}04{.}190$ a result of clinical trials.
- NOTE Confidence: 0.9648676
- 00:20:06.090 --> 00:20:06.890 Yeah. I would
- NOTE Confidence: 0.9648676
- $00:20:06.890 \longrightarrow 00:20:08.730$ argue that essentially all of
- NOTE Confidence: 0.9648676
- $00:20:08.730 \longrightarrow 00:20:10.490$ the breakthroughs that have happened
- NOTE Confidence: 0.9648676
- 00:20:10.490 --> 00:20:11.535 in the last five or
- NOTE Confidence: 0.9648676
- 00:20:11.615 --> 00:20:12.435 ten years
- NOTE Confidence: 0.97531337
- 00:20:13.775 --> 00:20:15.055 are as a result of
- NOTE Confidence: 0.97531337
- $00{:}20{:}15.055 \dashrightarrow 00{:}20{:}16.575$ clinical trials. As you said
- NOTE Confidence: 0.97531337
- 00:20:16.575 --> 00:20:18.335 in the introduction, a
- 00:20:19.455 --> 00:20:20.734 drug doesn't go from the
- NOTE Confidence: 0.9993417
- $00:20:20.734 \longrightarrow 00:20:21.234$ laboratory
- NOTE Confidence: 0.92389125
- $00:20:21.535 \longrightarrow 00:20:22.595$ to the pharmacy.
- NOTE Confidence: 0.99900275

- $00:20:23.295 \longrightarrow 00:20:24.835$ It only gets to
- NOTE Confidence: 0.9974779
- $00:20:25.369 \longrightarrow 00:20:26.810$ a place where patients can
- NOTE Confidence: 0.9974779
- $00:20:26.810 \longrightarrow 00:20:28.430$ access it through clinical trials.
- NOTE Confidence: 0.8011331
- 00:20:29.530 --> 00:20:30.030 And,
- NOTE Confidence: 0.99062717
- $00{:}20{:}30{.}570 \dashrightarrow 00{:}20{:}31{.}230$ you know,
- NOTE Confidence: 0.92045903
- $00{:}20{:}32.650 \dashrightarrow 00{:}20{:}33.850$ twen ty years ago when I
- NOTE Confidence: 0.92045903
- $00:20:33.850 \longrightarrow 00:20:35.450$ started in this field, or
- NOTE Confidence: 0.92045903
- 00:20:35.450 --> 00:20:37.050 actually, now it's twenty five
- NOTE Confidence: 0.92045903
- $00:20:37.050 \longrightarrow 00:20:37.790$ years ago,
- NOTE Confidence: 0.9658357
- 00:20:38.330 --> 00:20:39.070 time flies,
- NOTE Confidence: 0.982862
- $00:20:39.530 \longrightarrow 00:20:40.830$ you know, we were
- NOTE Confidence: 0.89103204
- 00:20:41.984 --> 00:20:43.605 in breast cancer, for example,
- NOTE Confidence: 0.88428974
- $00:20:43.984 \longrightarrow 00:20:45.285$ in almost all cancers,
- NOTE Confidence: 0.95960337
- $00:20:46.385 \rightarrow 00:20:48.145$ the treatments available were essentially
- NOTE Confidence: 0.95960337
- $00:20:48.145 \longrightarrow 00:20:48.885$ all chemotherapy.
- NOTE Confidence: 0.96695894
- $00:20:49.505 \rightarrow 00:20:51.425$ And chemotherapy can be effective

- NOTE Confidence: 0.96695894
- 00:20:51.425 --> 00:20:53.045 in cancer, but
- NOTE Confidence: 0.9866152
- 00:20:54.545 --> 00:20:55.925 it has a
- NOTE Confidence: 0.9967856
- $00{:}20{:}57.149 \dashrightarrow 00{:}20{:}58.590$ substantial risk of side effects
- NOTE Confidence: 0.9967856
- $00:20:58.590 \dashrightarrow 00:21:00.049$ in many patients because
- NOTE Confidence: 0.9995937
- $00:21:00.350 \longrightarrow 00:21:01.090$ the chemotherapy
- NOTE Confidence: 0.99848557
- 00:21:01.789 --> 00:21:03.169 isn't very good at distinguishing
- NOTE Confidence: 0.99841034
- $00:21:03.789 \longrightarrow 00:21:04.289$ between
- NOTE Confidence: 0.9990595
- $00{:}21{:}04{.}590 \dashrightarrow 00{:}21{:}06{.}049$ the cancer itself
- NOTE Confidence: 0.9514488
- $00:21:06.350 \longrightarrow 00:21:08.805$ and a patient's normal cells.
- NOTE Confidence: 0.9514488
- 00:21:08.885 --> 00:21:10.085 It can definitely kill cancer
- NOTE Confidence: 0.9514488
- 00:21:10.085 00:21:11.525 cells but also can damage
- NOTE Confidence: 0.9514488
- 00:21:11.525 --> 00:21:12.725 normal cells and that's where
- NOTE Confidence: 0.9514488
- $00{:}21{:}12.725 \dashrightarrow 00{:}21{:}14.105$ the side effects come from.
- NOTE Confidence: 0.9514488
- $00{:}21{:}14{.}244 \dashrightarrow 00{:}21{:}15{.}845$ And the revolution in cancer
- NOTE Confidence: 0.9514488
- 00:21:15.845 --> 00:21:17.125 care in general has come
- NOTE Confidence: 0.9514488

- 00:21:17.125 --> 00:21:18.105 about because
- NOTE Confidence: 0.9913765
- $00:21:19.525 \longrightarrow 00:21:20.025$ we've
- NOTE Confidence: 0.9702222
- $00{:}21{:}21{.}059 \dashrightarrow 00{:}21{:}23{.}240$ changed our treatment paradigm in
- NOTE Confidence: 0.9702222
- 00:21:23.380 --> 00:21:24.919 many, if not most cases,
- NOTE Confidence: 0.99935645
- $00:21:25.539 \longrightarrow 00:21:26.200$ to drugs
- NOTE Confidence: 0.9962115
- $00{:}21{:}26.500 \dashrightarrow 00{:}21{:}28.600$ that target something that's specific
- NOTE Confidence: 0.9407549
- $00{:}21{:}29{.}139 \dashrightarrow 00{:}21{:}30{.}580$ within the cancer cell that's
- NOTE Confidence: 0.9407549
- 00:21:30.580 --> 00:21:31.080 not
- NOTE Confidence: 0.9683622
- $00{:}21{:}31{.}380 \dashrightarrow 00{:}21{:}33{.}059$ present in the normal cell.
- NOTE Confidence: 0.9683622
- $00{:}21{:}33.059 \dashrightarrow 00{:}21{:}34.500$ So this so called targeted
- NOTE Confidence: 0.9683622
- $00{:}21{:}34{.}500 \dashrightarrow 00{:}21{:}36{.}279$ the rapy, which is targeting what's
- NOTE Confidence: 0.9800839
- 00:21:36.585 --> 00:21:38.284 specifically driving the cancer,
- NOTE Confidence: 0.99829626
- $00:21:38.664 \rightarrow 00:21:40.505$ tends to have substantially fewer
- NOTE Confidence: 0.99829626
- 00:21:40.505 --> 00:21:41.725 side effects because
- NOTE Confidence: 0.974271
- 00:21:42.105 --> 00:21:43.725 it is more targeted directly,
- NOTE Confidence: 0.9988011
- $00:21:44.184 \rightarrow 00:21:44.924$ and specifically

- NOTE Confidence: 0.9836527
- $00:21:45.385 \longrightarrow 00:21:46.605$ at the cancer cells.
- NOTE Confidence: 0.97076136
- $00{:}21{:}47.065 \dashrightarrow 00{:}21{:}48.825$ And so that's the major
- NOTE Confidence: 0.97076136
- 00:21:48.825 --> 00:21:49.325 breakthrough
- NOTE Confidence: 0.9748029
- $00:21:49.945 \longrightarrow 00:21:51.145$ that's happened over the last
- NOTE Confidence: 0.9748029
- 00:21:51.145 --> 00:21:52.799 ten to twenty years And
- NOTE Confidence: 0.9748029
- $00{:}21{:}52{.}799 \dashrightarrow 00{:}21{:}54{.}240$ that's all come
- NOTE Confidence: 0.9748029
- $00:21:54.240 \rightarrow 00:21:56.740$ about both from tremendous laboratory
- NOTE Confidence: 0.9748029
- $00{:}21{:}56{.}880 \dashrightarrow 00{:}21{:}58{.}159$ research as well as all
- NOTE Confidence: 0.9748029
- $00{:}21{:}58{.}159 \dashrightarrow 00{:}21{:}59{.}519$ the clinical trials that have
- NOTE Confidence: 0.9748029
- $00{:}21{:}59{.}519 \dashrightarrow 00{:}22{:}00{.}019$ been
- NOTE Confidence: 0.997381
- $00:22:00.480 \longrightarrow 00:22:03.200$ required to translate those discoveries
- NOTE Confidence: 0.997381
- $00:22:03.200 \longrightarrow 00:22:04.659$ in the laboratory into
- NOTE Confidence: 0.77009463
- $00{:}22{:}04{.}960 \dashrightarrow 00{:}22{:}05{.}460$ actual
- NOTE Confidence: 0.96032023
- $00{:}22{:}06{.}385 \dashrightarrow 00{:}22{:}08{.}065$ drugs available for patients.
- NOTE Confidence: 0.96032023
- 00:22:08.065 --> 00:22:09.025 S
some of the
- NOTE Confidence: 0.96032023

- $00:22:09.025 \rightarrow 00:22:10.725$ big ones that have happened
- NOTE Confidence: 0.8465558
- $00:22:11.184 \rightarrow 00:22:11.684$ are
- NOTE Confidence: 0.9328459
- $00:22:13.984 \longrightarrow 00:22:15.605$ immune therapies, which
- NOTE Confidence: 0.7754909
- 00:22:16.065 --> 00:22:16.565 enable
- NOTE Confidence: 0.9865275
- $00{:}22{:}16.945 \dashrightarrow 00{:}22{:}18.945$ the patient's own immune system
- NOTE Confidence: 0.9865275
- 00:22:18.945 --> 00:22:20.790 to rise up and attack
- NOTE Confidence: 0.9865275
- $00{:}22{:}20.869 \dashrightarrow 00{:}22{:}22.490$ the cancer, and that's revolutionized
- NOTE Confidence: 0.9865275
- $00:22:22.710 \longrightarrow 00:22:23.369$ the care
- NOTE Confidence: 0.92887837
- $00{:}22{:}23.670 \dashrightarrow 00{:}22{:}24.330$ of many
- NOTE Confidence: 0.92922044
- $00{:}22{:}25{.}109 \dashrightarrow 00{:}22{:}26{.}650$ cancers, including melanoma and
- 00:22:28.550 --> 00:22:30.310 lung cancer and kidney cancer
- NOTE Confidence: 0.9137522
- $00:22:30.310 \longrightarrow 00:22:31.990$ and essentially all cancers are
- NOTE Confidence: 0.9137522
- 00:22:31.990 --> 00:22:32.490 now
- NOTE Confidence: 0.9414273
- $00:22:33.030 \longrightarrow 00:22:34.810$ involved with using
- NOTE Confidence: 0.8145731
- $00:22:35.190 \longrightarrow 00:22:35.690$ immuno
therapy.
- NOTE Confidence: 0.98462045
- $00{:}22{:}36.695 \dashrightarrow 00{:}22{:}37.494$ And then we have a
- NOTE Confidence: 0.98462045

- $00:22:37.494 \longrightarrow 00:22:38.635$ host of oral
- NOTE Confidence: 0.9804158
- $00:22:39.415 \longrightarrow 00:22:41.835$ pills that target specific mutations
- NOTE Confidence: 0.9804158
- $00:22:41.895 \longrightarrow 00:22:42.875$ within the cancer,
- NOTE Confidence: 0.9968079
- $00{:}22{:}43.494 \dashrightarrow 00{:}22{:}44.315$ that have
- NOTE Confidence: 0.8876131
- $00{:}22{:}44.695 \dashrightarrow 00{:}22{:}46.635$ had huge benefits in specific
- NOTE Confidence: 0.96281886
- $00{:}22{:}47.175 \dashrightarrow 00{:}22{:}49.175$ types of lung cancer, breast
- NOTE Confidence: 0.96281886
- 00:22:49.175 --> 00:22:49.675 cancer,
- NOTE Confidence: 0.9992003
- $00:22:50.140 \longrightarrow 00:22:50.960$ prostate cancer,
- NOTE Confidence: 0.7724323
- $00{:}22{:}51{.}820 \dashrightarrow 00{:}22{:}52{.}559$ and many others.
- NOTE Confidence: 0.94128907
- $00:22:53.820 \longrightarrow 00:22:54.859$ And then one thing that
- NOTE Confidence: 0.94128907
- 00:22:54.859 --> 00:22:55.980 I personally have been working
- NOTE Confidence: 0.94128907
- $00:22:55.980 \longrightarrow 00:22:57.500$ on and now many of
- NOTE Confidence: 0.94128907
- $00:22:57.500 \longrightarrow 00:22:59.359$ us are working on are
- NOTE Confidence: 0.94128907
- $00{:}22{:}59{.}500 \dashrightarrow 00{:}23{:}00{.}780$ a whole new class of
- NOTE Confidence: 0.94128907
- 00:23:00.780 --> 00:23:01.679 drug which
- NOTE Confidence: 0.9975788
- $00:23:01.980 \longrightarrow 00:23:02.799$ goes by

- NOTE Confidence: 0.97958857
- $00{:}23{:}03{.}225 \dashrightarrow 00{:}23{:}04{.}665$ the scientific name of an
- NOTE Confidence: 0.97958857
- 00:23:04.665 --> 00:23:06.684 antibody drug conjugate. But essentially,
- NOTE Confidence: 0.97958857
- 00:23:06.744 --> 00:23:07.244 it's
- NOTE Confidence: 0.9327483
- $00{:}23{:}07{.}705 \dashrightarrow 00{:}23{:}08{.}845$ a way to
- NOTE Confidence: 0.9955394
- $00:23:09.945 \longrightarrow 00:23:11.645$ specifically deliver chemotherapy
- NOTE Confidence: 0.99571234
- 00:23:12.025 --> 00:23:14.025 right to the cancer cell
- NOTE Confidence: 0.99571234
- $00:23:14.025 \rightarrow 00:23:15.005$ using new
- NOTE Confidence: 0.9392344
- $00:23:15.350 \longrightarrow 00:23:17.510$ antibody technologies and that makes
- NOTE Confidence: 0.9392344
- $00{:}23{:}17.510 \dashrightarrow 00{:}23{:}19.030$ the chemotherapy much more like
- NOTE Confidence: 0.9392344
- $00:23:19.030 \longrightarrow 00:23:20.230$ a guided missile or a
- NOTE Confidence: 0.9392344
- $00:23:20.230 \longrightarrow 00:23:22.170$ smart bomb rather than
- NOTE Confidence: 0.9568553
- $00{:}23{:}25{.}030 \dashrightarrow 00{:}23{:}26{.}230$ a chemical that just goes
- NOTE Confidence: 0.9568553
- $00:23:26.230 \rightarrow 00:23:27.910$ everywhere and damages both normal
- NOTE Confidence: 0.9568553
- $00{:}23{:}27{.}910 \dashrightarrow 00{:}23{:}29{.}750$ tissue and cancer. So all
- NOTE Confidence: 0.9568553
- $00{:}23{:}29{.}750 \dashrightarrow 00{:}23{:}30{.}405$ of these
- NOTE Confidence: 0.95820284

- 00:23:31.605 00:23:33.445 whole classes of drugs are
- NOTE Confidence: 0.95820284
- 00:23:33.445 --> 00:23:33.945 new
- NOTE Confidence: 0.9995553
- $00{:}23{:}34{.}565 \dashrightarrow 00{:}23{:}35{.}065$ and
- NOTE Confidence: 0.9854685
- $00{:}23{:}35{.}685 \dashrightarrow 00{:}23{:}37{.}045$ only are possible and are
- NOTE Confidence: 0.9854685
- $00:23:37.045 \rightarrow 00:23:38.905$ only available to patients because
- NOTE Confidence: 0.9854685
- $00:23:39.045 \longrightarrow 00:23:39.545$ of
- NOTE Confidence: 0.9346293
- $00:23:40.165 \longrightarrow 00:23:41.765$ all of the patients that
- NOTE Confidence: 0.9346293
- 00:23:41.765 --> 00:23:43.730 have, you know, courageously
- NOTE Confidence: 0.9441949
- $00{:}23{:}44{.}190 \dashrightarrow 00{:}23{:}44{.}690$ elected
- NOTE Confidence: 0.98227483
- $00:23:45.470 \longrightarrow 00:23:46.590$ to go on to clinical
- NOTE Confidence: 0.98227483
- 00:23:46.590 --> 00:23:47.090 trials
- NOTE Confidence: 0.980295
- $00:23:47.869 \rightarrow 00:23:49.070$ over the last twenty years,
- NOTE Confidence: 0.980295
- $00:23:49.309 \longrightarrow 00:23:50.690$ to demonstrate how
- NOTE Confidence: 0.97878075
- $00{:}23{:}51{.}390 \dashrightarrow 00{:}23{:}52{.}350$ much of
- NOTE Confidence: 0.97878075
- $00:23:52.350 \longrightarrow 00:23:53.390$ a breakthrough all of these
- NOTE Confidence: 0.97878075
- $00:23:53.390 \rightarrow 00:23:55.410$ drugs were, and they're now

- NOTE Confidence: 0.97878075
- $00:23:55.470 \longrightarrow 00:23:56.530$ standard of care.
- NOTE Confidence: 0.94758254
- 00:23:57.165 --> 00:23:58.945 It's remarkable.
- NOTE Confidence: 0.918697
- 00:23:59.725 --> 00:24:00.225 Alyssa,
- NOTE Confidence: 0.9983378
- $00{:}24{:}00{.}685 \dashrightarrow 00{:}24{:}02{.}205$ is it more work for
- NOTE Confidence: 0.9983378
- 00:24:02.205 --> 00:24:03.244 somebody to be on a
- NOTE Confidence: 0.9983378
- $00:24:03.244 \longrightarrow 00:24:04.305$ clinical trial?
- NOTE Confidence: 0.9992022
- 00:24:05.485 --> 00:24:07.405 Does it require more
- NOTE Confidence: 0.9992022
- 00:24:07.405 --> 00:24:09.425 visits to the clinic? Does
- NOTE Confidence: 0.9992022
- $00:24:09.485 \longrightarrow 00:24:10.145$ it require
- NOTE Confidence: 0.9843078
- 00:24:11.160 --> 00:24:12.140 added expense,
- NOTE Confidence: 0.99858505
- 00:24:12.520 --> 00:24:14.540 added time from family members?
- NOTE Confidence: 0.95510226
- $00{:}24{:}16.280 \dashrightarrow 00{:}24{:}17.720$ That's a great question, Eric.
- NOTE Confidence: 0.95510226
- $00:24:17.720 \longrightarrow 00:24:19.640$ And I think sometimes, yes.
- NOTE Confidence: 0.95510226
- $00:24:19.640 \longrightarrow 00:24:21.340$ The answer is yes. However,
- NOTE Confidence: 0.99862134
- $00:24:21.960 \longrightarrow 00:24:22.619$ I think the
- $00:24:24.680 \longrightarrow 00:24:25.900$ access to trials

- NOTE Confidence: 0.9861762
- $00{:}24{:}26.865 \dashrightarrow 00{:}24{:}28.645$ is important as far as

NOTE Confidence: 0.9861762

 $00:24:28.785 \longrightarrow 00:24:30.625$ there's also more oversight.

NOTE Confidence: 0.97790897

 $00{:}24{:}32{.}225 \dashrightarrow 00{:}24{:}34{.}145$ So the fact that

NOTE Confidence: 0.97790897

 $00{:}24{:}34{.}465 \dashrightarrow 00{:}24{:}35{.}205$ a patient

NOTE Confidence: 0.9998988

 $00:24:36.305 \longrightarrow 00:24:38.244$ is very closely tracked

NOTE Confidence: 0.99732274

 $00:24:38.650 \longrightarrow 00:24:40.330$ in research studies. There are

NOTE Confidence: 0.99732274

 $00:24:40.330 \longrightarrow 00:24:41.850$ some studies that may require

NOTE Confidence: 0.99732274

00:24:41.850 --> 00:24:43.290 a few additional visits. I

NOTE Confidence: 0.99732274

 $00:24:43.290 \longrightarrow 00:24:44.750$ think we talked about earlier

NOTE Confidence: 0.9790184

00:24:45.050 - 00:24:46.830 the different phases of trials,

NOTE Confidence: 0.9801085

 $00{:}24{:}47.850 \dashrightarrow 00{:}24{:}49.770$ and some trials do have

NOTE Confidence: 0.9801085

 $00{:}24{:}49{.}770 \dashrightarrow 00{:}24{:}51{.}309$ more requirements, especially

NOTE Confidence: 0.99831146

 $00{:}24{:}52{.}105 \dashrightarrow 00{:}24{:}53{.}385$ when they're being tested for

NOTE Confidence: 0.99831146

 $00{:}24{:}53{.}385 \dashrightarrow 00{:}24{:}54{.}505$ safety. So there may be

NOTE Confidence: 0.99831146

 $00{:}24{:}54{.}505 \dashrightarrow 00{:}24{:}56{.}825$ more visits required to ensure

NOTE Confidence: 0.99831146

- $00:24:56.825 \longrightarrow 00:24:58.024$ the safety of those
- NOTE Confidence: 0.99831146
- $00{:}24{:}58{.}024 \dashrightarrow 00{:}24{:}59{.}325$ patients that are participating.
- NOTE Confidence: 0.9982929
- $00:25:00.825 \longrightarrow 00:25:01.725$ For expenses,
- NOTE Confidence: 0.9914081
- $00{:}25{:}03.144 \dashrightarrow 00{:}25{:}04.664$ there are really two types
- NOTE Confidence: 0.9914081
- $00{:}25{:}04.664 \dashrightarrow 00{:}25{:}06.424$ of costs associated with clinical
- NOTE Confidence: 0.9914081
- $00{:}25{:}06{.}424 \dashrightarrow 00{:}25{:}08{.}970$ trials. There's routine medical costs.
- NOTE Confidence: 0.9914081
- $00:25:08.970 \longrightarrow 00:25:10.170$ Those are no different than
- NOTE Confidence: 0.9914081
- $00:25:10.170 \longrightarrow 00:25:11.390$ the standard of care.
- NOTE Confidence: 0.9464741
- $00{:}25{:}11.690 \dashrightarrow 00{:}25{:}13.710$ And then, typically, research costs
- NOTE Confidence: 0.99346626
- $00{:}25{:}14{.}410 \dashrightarrow 00{:}25{:}16{.}110$ are covered
- NOTE Confidence: 0.99887383
- $00:25:16.730 \longrightarrow 00:25:18.010$ by the sponsor, by the
- NOTE Confidence: 0.99887383
- $00:25:18.010 \rightarrow 00:25:19.390$ industry, by the funder,
- NOTE Confidence: 0.96537775
- $00:25:19.770 \rightarrow 00:25:22.190$ whoever is supporting that clinical
- NOTE Confidence: 0.96537775
- $00:25:22.250 \longrightarrow 00:25:22.750$ trial.
- NOTE Confidence: 0.91110057
- $00{:}25{:}23.225 \dashrightarrow 00{:}25{:}24.765$ We also try to offset
- NOTE Confidence: 0.91110057
- 00:25:24.825 --> 00:25:25.325 through

- NOTE Confidence: 0.99826366
- $00:25:26.265 \rightarrow 00:25:27.405$ stipends or reimbursements
- NOTE Confidence: 0.9915498
- $00{:}25{:}27.785 \dashrightarrow 00{:}25{:}29.005$ as much as we can
- NOTE Confidence: 0.9915498
- $00{:}25{:}29{.}145 \dashrightarrow 00{:}25{:}30{.}045$ for additional
- NOTE Confidence: 0.9652422
- $00{:}25{:}30{.}425 \dashrightarrow 00{:}25{:}32{.}425$ transportation or additional needs that
- NOTE Confidence: 0.9652422
- $00{:}25{:}32{.}425 \dashrightarrow 00{:}25{:}33{.}705$ might to be able to
- NOTE Confidence: 0.9652422
- $00{:}25{:}33.705 \dashrightarrow 00{:}25{:}35.305$ provide the access to
- NOTE Confidence: 0.9652422
- $00:25:35.625 \rightarrow 00:25:37.244$ our patients to those trials.
- $00:25:39.059 \longrightarrow 00:25:40.820$ Some trials do require more
- NOTE Confidence: 0.9987057
- $00{:}25{:}40.820 \dashrightarrow 00{:}25{:}42.419$ than standard of care. Some
- NOTE Confidence: 0.9987057
- $00:25:42.419 \longrightarrow 00:25:43.700$ are actually in line with
- NOTE Confidence: 0.9987057
- $00{:}25{:}43.700 \dashrightarrow 00{:}25{:}44.919$ the standard of care
- NOTE Confidence: 0.9887579
- $00:25:45.220 \longrightarrow 00:25:46.980$ visits and would
- NOTE Confidence: 0.9887579
- $00:25:46.980 \longrightarrow 00:25:48.419$ not require much more time
- NOTE Confidence: 0.9887579
- $00:25:48.419 \longrightarrow 00:25:49.159$ and effort.
- NOTE Confidence: 0.973058
- 00:25:50.019 --> 00:25:51.059 And I would just
- NOTE Confidence: 0.973058
- $00:25:51.059 \rightarrow 00:25:52.755$ add that, you know, while

- NOTE Confidence: 0.973058
- $00:25:52.755 \longrightarrow 00:25:53.955$ there may be some additional

NOTE Confidence: 0.973058

 $00{:}25{:}53{.}955 \dashrightarrow 00{:}25{:}55{.}315$ visits involved in a clinical

NOTE Confidence: 0.973058

 $00:25:55.315 \longrightarrow 00:25:56.615$ trial in some situations,

NOTE Confidence: 0.97836787

 $00{:}25{:}57{.}155 \dashrightarrow 00{:}25{:}58{.}994$ there's also more team members

NOTE Confidence: 0.97836787

 $00{:}25{:}58{.}994 \dashrightarrow 00{:}26{:}00{.}355$ involved in doing the

NOTE Confidence: 0.97836787

 $00{:}26{:}00{.}355 \dashrightarrow 00{:}26{:}02{.}055$ monitoring that Alyssa was mentioning.

NOTE Confidence: 0.9950308

 $00:26:02.835 \longrightarrow 00:26:03.955$ So when a patient's on

NOTE Confidence: 0.9950308

 $00{:}26{:}03.955 \dashrightarrow 00{:}26{:}04.915$ a trial, they have a

NOTE Confidence: 0.9950308

00:26:04.915 --> 00:26:05.975 bigger care team

NOTE Confidence: 0.98013526

 $00:26:07.690 \longrightarrow 00:26:08.910$ available to them,

NOTE Confidence: 0.99927294

 $00:26:09.450 \longrightarrow 00:26:10.190$ more nurses

NOTE Confidence: 0.97939295

 $00{:}26{:}10.970 \dashrightarrow 00{:}26{:}13.210$ and research coordinators who can

NOTE Confidence: 0.97939295

 $00:26:13.210 \longrightarrow 00:26:15.230$ provide assistance and answer questions

NOTE Confidence: 0.97939295

 $00{:}26{:}15{.}290 \dashrightarrow 00{:}26{:}16{.}510$ and be more available

NOTE Confidence: 0.94093573

 $00:26:17.130 \longrightarrow 00:26:18.410$ quickly if a patient has

NOTE Confidence: 0.94093573

00:26:18.410 --> 00:26:20.385 questions. So it's kind of

NOTE Confidence: 0.94093573

 $00:26:20.385 \longrightarrow 00:26:21.505$ an added benefit to being

NOTE Confidence: 0.94093573

 $00{:}26{:}21.505 \dashrightarrow 00{:}26{:}22.465$ on a trial is that there's

 $00:26:23.505 \longrightarrow 00:26:25.685$ this bigger team around to

NOTE Confidence: 0.99101466

 $00:26:25.744 \longrightarrow 00:26:27.425$ support the patient,

NOTE Confidence: 0.98523426

 $00{:}26{:}27{.}905 \dashrightarrow 00{:}26{:}29{.}045$ while they're on the study.

NOTE Confidence: 0.98675156

 $00:26:29.665 \longrightarrow 00:26:31.665$ So as we begin to

NOTE Confidence: 0.98675156

00:26:31.665 --> 00:26:33.185 wind up, I'm gonna ask

NOTE Confidence: 0.98675156

 $00{:}26{:}33.185 \dashrightarrow 00{:}26{:}34.165$ one more question,

NOTE Confidence: 0.94373745

 $00:26:34.545 \longrightarrow 00:26:35.205$ which is,

NOTE Confidence: 0.83772

 $00:26:37.640 \rightarrow 00:26:38.140$ imagine

NOTE Confidence: 0.9780569

 $00:26:39.240 \longrightarrow 00:26:41.560$ you're doing a phase three

NOTE Confidence: 0.9780569

 $00{:}26{:}41{.}560 \dashrightarrow 00{:}26{:}42{.}920$ trial, so this is a

NOTE Confidence: 0.9780569

 $00:26:42.920 \rightarrow 00:26:45.400$ randomized trial comparing two different

NOTE Confidence: 0.9780569

 $00{:}26{:}45{.}400 \dashrightarrow 00{:}26{:}45{.}900$ treatments.

NOTE Confidence: 0.9918668

 $00{:}26{:}46{.}920 \dashrightarrow 00{:}26{:}48{.}680$ And at some point in

NOTE Confidence: 0.9918668

 $00:26:48.680 \longrightarrow 00:26:50.945$ time, because these trials are

NOTE Confidence: 0.9918668

 $00:26:51.005 \rightarrow 00:26:52.145$ monitored carefully,

NOTE Confidence: 0.99935144

 $00{:}26{:}52{.}765 \dashrightarrow 00{:}26{:}53{.}905$ it becomes clear

NOTE Confidence: 0.9993099

 $00:26:54.525 \longrightarrow 00:26:56.605$ that one treatment is better

NOTE Confidence: 0.9993099

 $00{:}26{:}56.605 \dashrightarrow 00{:}26{:}57.505$ than the other.

NOTE Confidence: 0.9688785

 $00{:}26{:}58{.}205 \dashrightarrow 00{:}26{:}59{.}984$ How was the decision made

NOTE Confidence: 0.9688785

 $00{:}27{:}00{.}125 \dashrightarrow 00{:}27{:}01{.}984$ to make that information available

NOTE Confidence: 0.9688785

 $00:27:02.045 \longrightarrow 00:27:04.109$ to patients and potentially to

NOTE Confidence: 0.9688785

 $00{:}27{:}04.429 \dashrightarrow 00{:}27{:}06.270$ provide that new treatment to

NOTE Confidence: 0.9688785

00:27:06.270 --> 00:27:06.770 patients?

NOTE Confidence: 0.9430887

00:27:08.990 --> 00:27:10.690 So each trial

NOTE Confidence: 0.98671025

 $00{:}27{:}12.510 \dashrightarrow 00{:}27{:}13.010$ has

NOTE Confidence: 0.9927272

 $00:27:13.790 \longrightarrow 00:27:15.250$ what's called a data safety

NOTE Confidence: 0.9927272

 $00:27:15.309 \rightarrow 00:27:15.809$ monitoring

NOTE Confidence: 0.97522575

 $00:27:16.494 \longrightarrow 00:27:18.174$ committee. So a group of

NOTE Confidence: 0.97522575

 $00:27:18.174 \rightarrow 00:27:18.674$ independent,

- NOTE Confidence: 0.997257
- $00:27:19.774 \longrightarrow 00:27:21.075$ physicians and statisticians
- NOTE Confidence: 0.9849237
- $00:27:21.534 \longrightarrow 00:27:22.755$ who follow
- NOTE Confidence: 0.98476124
- $00:27:23.135 \longrightarrow 00:27:24.434$ the course of the trial,
- NOTE Confidence: 0.97559667
- $00:27:25.054 \rightarrow 00:27:25.875$ very closely
- NOTE Confidence: 0.924176
- $00:27:26.975 \longrightarrow 00:27:27.934$ as it goes on in a phase
- $00{:}27{:}29{.}149 \dashrightarrow 00{:}27{:}30{.}529$ III trial like you're mentioning
- NOTE Confidence: 0.8748367
- $00:27:30.909 \longrightarrow 00:27:32.429$ can go on for multiple
- NOTE Confidence: 0.8748367
- $00:27:32.429 \longrightarrow 00:27:32.929$ years.
- NOTE Confidence: 0.64624316
- $00{:}27{:}33{.}389 \dashrightarrow 00{:}27{:}34{.}210$ And this
- NOTE Confidence: 0.7244377
- $00{:}27{:}34{.}909 \dashrightarrow 00{:}27{:}35{.}409$ committee
- NOTE Confidence: 0.9699218
- $00{:}27{:}36{.}109 \dashrightarrow 00{:}27{:}37{.}389$ looks at those kinds of
- NOTE Confidence: 0.9699218
- $00{:}27{:}37{.}389 \dashrightarrow 00{:}27{:}38{.}929$ results that you're talking about
- NOTE Confidence: 0.9699218
- $00:27:39.149 \longrightarrow 00:27:41.630$ on a regular continuous basis.
- NOTE Confidence: 0.9699218
- $00:27:41.630 \longrightarrow 00:27:42.769$ And if they see
- NOTE Confidence: 0.9065597
- 00:27:43.595 --> 00:27:44.575 a clear winner
- NOTE Confidence: 0.97797054
- $00:27:45.115 \longrightarrow 00:27:46.715$ in a trial like that,

- NOTE Confidence: 0.97797054
- $00:27:46.715 \rightarrow 00:27:48.155$ they have the authority to
- NOTE Confidence: 0.97797054
- $00{:}27{:}48.155 \dashrightarrow 00{:}27{:}49.595$ stop the trial at that
- NOTE Confidence: 0.97797054
- $00{:}27{:}49.595 \dashrightarrow 00{:}27{:}50.095$ point.
- NOTE Confidence: 0.7142397
- $00{:}27{:}51{.}035 \dashrightarrow 00{:}27{:}51{.}535$ And
- NOTE Confidence: 0.9629955
- $00{:}27{:}51.835 \dashrightarrow 00{:}27{:}53.115$ depending on the situation, if
- NOTE Confidence: 0.9629955
- $00{:}27{:}53.115 \dashrightarrow 00{:}27{:}54.075$ they feel like it's in
- NOTE Confidence: 0.9629955
- $00{:}27{:}54.075 \dashrightarrow 00{:}27{:}54.895$ the best interests
- NOTE Confidence: 0.9764802
- $00:27:55.275 \longrightarrow 00:27:56.255$ of the participants,
- NOTE Confidence: 0.9965006
- 00:27:57.755 --> 00:27:58.494 can then
- NOTE Confidence: 0.99840707
- $00:27:58.980 \longrightarrow 00:28:00.820$ allow the patients who were
- NOTE Confidence: 0.99840707
- $00{:}28{:}00{.}820 \dashrightarrow 00{:}28{:}01{.}320$ on
- NOTE Confidence: 0.99932647
- 00:28:01.700 --> 00:28:02.200 the
- NOTE Confidence: 0.94707394
- 00:28:02.580 --> 00:28:03.480 standard drug
- NOTE Confidence: 0.84016013
- $00{:}28{:}04{.}260 \dashrightarrow 00{:}28{:}04{.}760$ that
- NOTE Confidence: 0.9954236
- $00{:}28{:}05{.}380 \dashrightarrow 00{:}28{:}06{.}680$ turned out not to be
- NOTE Confidence: 0.9748661

 $00:28:07.859 \longrightarrow 00:28:08.820$ the best one, that the

NOTE Confidence: 0.9748661

00:28:08.820 --> 00:28:11.080 newer drug was clearly better,

NOTE Confidence: 0.9748661

 $00:28:11.220 \longrightarrow 00:28:12.760$ they have the authority to

NOTE Confidence: 0.9611021

 $00{:}28{:}13.774 \dashrightarrow 00{:}28{:}15.455$ mandate that the patients who

NOTE Confidence: 0.9611021

 $00:28:15.455 \longrightarrow 00:28:16.734$ who were not receiving

NOTE Confidence: 0.9611021

 $00{:}28{:}16.734 \dashrightarrow 00{:}28{:}17.934$ the newer drug can then

NOTE Confidence: 0.9611021

 $00:28:17.934 \longrightarrow 00:28:19.475$ switch over, we call crossover,

NOTE Confidence: 0.9920464

 $00:28:20.335 \longrightarrow 00:28:21.615$ to the newer drug

NOTE Confidence: 0.9920464

 $00{:}28{:}21.615 \dashrightarrow 00{:}28{:}23.135$ to get access

NOTE Confidence: 0.9920464

 $00{:}28{:}23.135 \dashrightarrow 00{:}28{:}23.774$ to that

NOTE Confidence: 0.9893907

 $00:28:24.255 \rightarrow 00:28:26.414$ superior therapy right away rather

NOTE Confidence: 0.9893907

 $00:28:26.414 \longrightarrow 00:28:27.455$ than have to wait for

NOTE Confidence: 0.9893907

 $00:28:27.455 \longrightarrow 00:28:28.494$ the drug to get approved

NOTE Confidence: 0.9893907

 $00:28:28.494 \longrightarrow 00:28:29.315$ by the FDA.

NOTE Confidence: 0.9396399

00:28:30.070 --> 00:28:31.510 Doctor Ian Krop is a

NOTE Confidence: 0.9396399

 $00:28:31.510 \rightarrow 00:28:33.110$ professor of internal medicine and

- NOTE Confidence: 0.9396399
- $00:28:33.110 \longrightarrow 00:28:34.710$ medical oncology at the Yale
- NOTE Confidence: 0.9396399
- 00:28:34.710 --> 00:28:36.470 School of Medicine, and Alyssa
- NOTE Confidence: 0.9396399
- $00{:}28{:}36{.}470 \dashrightarrow 00{:}28{:}38{.}070$ Gateman is the executive director
- NOTE Confidence: 0.9396399
- $00{:}28{:}38.070 \dashrightarrow 00{:}28{:}39.510$ of the clinical trials office
- NOTE Confidence: 0.9396399
- $00{:}28{:}39{.}510 \dashrightarrow 00{:}28{:}40{.}970$ at Yale Cancer Center.
- NOTE Confidence: 0.96354944
- $00:28:41.350 \longrightarrow 00:28:42.550$ If you have questions, the
- NOTE Confidence: 0.96354944
- $00:28:42.550 \longrightarrow 00:28:43.610$ address is canceranswers
- NOTE Confidence: 0.98192585
- 00:28:43.955 --> 00:28:44.995 answers at yale dot e
- NOTE Confidence: 0.98192585
- 00:28:44.995 --> 00:28:46.515 d u, and past editions
- NOTE Confidence: 0.98192585
- $00:28:46.515 \longrightarrow 00:28:47.875$ of the program are available
- NOTE Confidence: 0.98192585
- 00:28:47.875 --> 00:28:49.395 in audio and written form
- NOTE Confidence: 0.98192585
- 00:28:49.395 --> 00:28:50.755 at yale cancer center dot
- NOTE Confidence: 0.98192585
- 00:28:50.755 --> 00:28:52.275 org. We hope you'll join
- NOTE Confidence: 0.98192585
- 00:28:52.275 --> 00:28:53.395 us next time to learn
- NOTE Confidence: 0.98192585
- $00{:}28{:}53{.}395 \dashrightarrow 00{:}28{:}54{.}515$ more about the fight against
- NOTE Confidence: 0.98192585

00:28:54.515 --> 00:28:56.595 cancer. Funding for Yale Cancer NOTE Confidence: 0.98192585 00:28:56.595 --> 00:28:58.195 Answers is provided by Smilow NOTE Confidence: 0.98192585

00:28:58.195 --> 00:28:59.095 Cancer Hospital.