WEBVTT

NOTE duration:"00:56:59"

NOTE recognizability:0.839

NOTE language:en-us

NOTE Confidence: 0.890419992142857

00:00:00.000 --> 00:00:02.429 Once again, thank you everyone for joining

NOTE Confidence: 0.890419992142857

 $00:00:02.429 \rightarrow 00:00:05.678$  in on our Perspectives on Medicine series.

NOTE Confidence: 0.890419992142857

 $00{:}00{:}05{.}680 \dashrightarrow 00{:}00{:}09{.}360$  That's our last one for the school year.

NOTE Confidence: 0.890419992142857

 $00{:}00{:}09{.}360 \dashrightarrow 00{:}00{:}11{.}304$  Very excited to introduce our guest

NOTE Confidence: 0.890419992142857

00:00:11.304 --> 00:00:13.248 speaker for today, Doctor Duncan.

NOTE Confidence: 0.890419992142857

00:00:13.248 --> 00:00:15.668 Doctor Charles Duncan is a

NOTE Confidence: 0.890419992142857

00:00:15.668 --> 00:00:17.120 Senior Research Scientist,

NOTE Confidence: 0.890419992142857

00:00:17.120 --> 00:00:19.045 Professor of Neurosurgery and Pediatrics

NOTE Confidence: 0.890419992142857

 $00:00:19.045 \longrightarrow 00:00:21.600$  at the Yale School of Medicine.

NOTE Confidence: 0.890419992142857

 $00{:}00{:}21.600 \dashrightarrow 00{:}00{:}23.100$  He has been a neurosurgeon

NOTE Confidence: 0.890419992142857

00:00:23.100 --> 00:00:24.972 at Yale since 1997 or 1977,

NOTE Confidence: 0.890419992142857

 $00{:}00{:}24.972 \dashrightarrow 00{:}00{:}26.592$  where he became the Chief

NOTE Confidence: 0.890419992142857

00:00:26.592 --> 00:00:28.120 of Pediatric Neurosurgery,

 $00:00:28.120 \longrightarrow 00:00:30.612$  and has also established the first pediatric

NOTE Confidence: 0.890419992142857

 $00{:}00{:}30{.}612 \dashrightarrow 00{:}00{:}32{.}360$  neurosurgery program in Connecticut.

NOTE Confidence: 0.890419992142857

00:00:32.360 - > 00:00:34.040 He also served as the Program

NOTE Confidence: 0.890419992142857

 $00:00:34.040 \rightarrow 00:00:35.623$  Director for the Yale Neurosurgery

NOTE Confidence: 0.890419992142857

00:00:35.623 --> 00:00:37.638 Residency Program for 18 years.

NOTE Confidence: 0.890419992142857

00:00:37.640 --> 00:00:38.984 Doctor Duncan's research focuses

NOTE Confidence: 0.890419992142857

 $00:00:38.984 \longrightarrow 00:00:41.000$  on the prevent focus on the

NOTE Confidence: 0.890419992142857

 $00{:}00{:}41.056$  -->  $00{:}00{:}42.592$  prevention of intravent ricular

NOTE Confidence: 0.890419992142857

 $00:00:42.592 \rightarrow 00:00:44.640$  hemorrhage and premature infants.

NOTE Confidence: 0.890419992142857

 $00:00:44.640 \rightarrow 00:00:46.670$  He's developed the cerebral blood

NOTE Confidence: 0.890419992142857

 $00{:}00{:}46.670 \dashrightarrow 00{:}00{:}48.294$  flow measurement systems for

NOTE Confidence: 0.890419992142857

 $00:00:48.294 \longrightarrow 00:00:50.618$  the immature brain by positron

NOTE Confidence: 0.890419992142857

 $00:00:50.618 \rightarrow 00:00:52.466$  emission tomography and adaptation

NOTE Confidence: 0.890419992142857

00:00:52.466 - 00:00:54.438 to developing brain to injury.

NOTE Confidence: 0.890419992142857

 $00:00:54.440 \longrightarrow 00:00:56.444$  His Endomethic ine Project for

NOTE Confidence: 0.890419992142857

 $00{:}00{:}56.444 \dashrightarrow 00{:}00{:}57.947$  Prevention of Intraventricular

- NOTE Confidence: 0.890419992142857
- 00:00:57.947 --> 00:01:00.208 Hemorrhage in Preterm Infants has
- NOTE Confidence: 0.890419992142857
- $00:01:00.208 \rightarrow 00:01:02.296$  adopted has been adopted in over
- NOTE Confidence: 0.890419992142857
- $00{:}01{:}02{.}296 \dashrightarrow 00{:}01{:}04{.}826$ 75 countries and his work have led
- NOTE Confidence: 0.890419992142857
- $00:01:04.826 \dashrightarrow 00:01:06.596$  over 100 peer reviewed publications.
- NOTE Confidence: 0.890419992142857
- $00{:}01{:}06{.}600 \dashrightarrow 00{:}01{:}06{.}944$  Dr.
- NOTE Confidence: 0.890419992142857
- $00:01:06.944 \dashrightarrow 00:01:09.008$  Duncan is also very deeply committed
- NOTE Confidence: 0.890419992142857
- $00:01:09.008 \longrightarrow 00:01:10.040$  to medical education.
- NOTE Confidence: 0.890419992142857
- $00:01:10.040 \longrightarrow 00:01:11.368$  He and his colleagues,
- NOTE Confidence: 0.890419992142857
- 00:01:11.368 --> 00:01:13.360 Doctor Bill Stewart and Shanta Kapadia,
- NOTE Confidence: 0.890419992142857
- $00:01:13.360 \rightarrow 00:01:15.230$  have developed online resources on
- NOTE Confidence: 0.890419992142857
- $00:01:15.230 \rightarrow 00:01:17.680$  human anatomy and the Coursera platform.
- NOTE Confidence: 0.890419992142857
- 00:01:17.680 $\operatorname{-->}$ 00:01:19.605 They've also developed a human
- NOTE Confidence: 0.890419992142857
- 00:01:19.605 --> 00:01:20.760 anatomy video project,
- NOTE Confidence: 0.890419992142857
- $00{:}01{:}20.760 \dashrightarrow 00{:}01{:}22.958$  a series of iBooks on human anatomy,
- NOTE Confidence: 0.890419992142857
- $00:01:22.960 \longrightarrow 00:01:25.240$  and the Apple Bookstore.
- NOTE Confidence: 0.890419992142857

00:01:25.240 --> 00:01:27.205 Doctor Duncan completed his Bachelor's

NOTE Confidence: 0.890419992142857

 $00{:}01{:}27.205 \dashrightarrow 00{:}01{:}29.936$  at Vanderbilt University and his MD in

NOTE Confidence: 0.890419992142857

 $00:01:29.936 \rightarrow 00:01:31.352$  residency training and neurosurgery

NOTE Confidence: 0.890419992142857

 $00{:}01{:}31{.}352 \dashrightarrow 00{:}01{:}33.878$  at the Duke University School of Medicine.

NOTE Confidence: 0.890419992142857

00:01:33.880 --> 00:01:36.036 We're very excited to have Doctor Duncan

NOTE Confidence: 0.890419992142857

 $00:01:36.036 \rightarrow 00:01:38.678$  join us today for his talk titled Pitfalls,

NOTE Confidence: 0.890419992142857

00:01:38.680 --> 00:01:40.066 Clinical Research,

NOTE Confidence: 0.890419992142857

 $00:01:40.066 \longrightarrow 00:01:41.452$  Education Life.

NOTE Confidence: 0.890419992142857

00:01:41.452 --> 00:01:42.838 Doctor Duncan,

NOTE Confidence: 0.890419992142857

 $00:01:42.840 \longrightarrow 00:01:43.252$  again,

NOTE Confidence: 0.890419992142857

 $00{:}01{:}43.252 \dashrightarrow 00{:}01{:}46.136$  thank you so much for joining with

NOTE Confidence: 0.890419992142857

 $00:01:46.136 \dashrightarrow 00:01:48.458$  us today and we will turn it over to

NOTE Confidence: 0.890419992142857

00:01:48.458 --> 00:01:49.838 you whenever you're ready to begin.

NOTE Confidence: 0.827979219

00:01:51.280 --> 00:01:52.960 Thank you. Thank you Wilton

NOTE Confidence: 0.827979219

 $00:01:52.960 \longrightarrow 00:01:54.640$  and and thank thank you,

NOTE Confidence: 0.827979219

 $00{:}01{:}54.640 \dashrightarrow 00{:}01{:}58.204$  the Medical Student Council and

00:01:58.204 --> 00:02:00.759 Doctor Mint for inviting me.

NOTE Confidence: 0.827979219

 $00:02:00.760 \longrightarrow 00:02:02.040$  This is a real pleasure.

NOTE Confidence: 0.924748

00:02:08.480 --> 00:02:12.320 Make sure I get the sharing going.

NOTE Confidence: 0.87437136375

 $00:02:22.520 \rightarrow 00:02:26.600$  This is just a bit of a soundtrack.

NOTE Confidence: 0.87437136375

00:02:26.600 --> 00:02:30.982 Barbara Watt<br/> Barb Watts. They reset

NOTE Confidence: 0.87437136375

 $00:02:30.982 \rightarrow 00:02:35.479$  this so that it actually hear hear this

NOTE Confidence: 0.835156713333333

00:02:37.880 --> 00:02:41.200 maybe you know what it is and

NOTE Confidence: 0.835156713333333

 $00:02:41.200 \longrightarrow 00:02:43.600$  whom bird learned the song and

NOTE Confidence: 0.835156713333333

 $00:02:43.600 \longrightarrow 00:02:44.960$  which might have learned it.

NOTE Confidence: 0.835156713333333

00:02:44.960 --> 00:02:46.000 But if you don't know,

NOTE Confidence: 0.835156713333333

00:02:46.000 -> 00:02:49.720 it's a Bob White quail.

NOTE Confidence: 0.835156713333333

 $00{:}02{:}49{.}720 \dashrightarrow 00{:}02{:}52{.}185$  And they learned this from

NOTE Confidence: 0.835156713333333

 $00:02:52.185 \longrightarrow 00:02:54.680$  their father before they hatch.

NOTE Confidence: 0.9502940775

00:02:59.560 --> 00:03:04.040 So I don't know if you ever feel

NOTE Confidence: 0.9502940775

 $00{:}03{:}04{.}040 \dashrightarrow 00{:}03{:}07{.}736$  like you're tracking up Everest in a

 $00:03:07.736 \rightarrow 00:03:11.080$  long line or if you might feel like

NOTE Confidence: 0.9502940775

 $00{:}03{:}11.080 \dashrightarrow 00{:}03{:}13.438$  you're just being tossed in a pond.

NOTE Confidence: 0.9502940775

 $00:03:13.440 \rightarrow 00:03:15.960$  Or maybe sometimes you feel like both.

NOTE Confidence: 0.7979108

00:03:19.400 --> 00:03:21.280 Mr. Mr. Jones. I'm doctor Anderson.

NOTE Confidence: 0.815678101538462

 $00{:}03{:}21.280 \dashrightarrow 00{:}03{:}22.438$  I'm the neurosurgeon.

NOTE Confidence: 0.815678101538462

 $00{:}03{:}22{.}438 \dashrightarrow 00{:}03{:}23{.}982$  The paedia tricians called me

NOTE Confidence: 0.815678101538462

00:03:23.982 --> 00:03:25.880 because Jimmy had an MRI scan,

NOTE Confidence: 0.815678101538462

 $00:03:25.880 \longrightarrow 00:03:28.508$  and it looks like the MRI

NOTE Confidence: 0.815678101538462

 $00:03:28.508 \longrightarrow 00:03:30.960$  scan shows a brain tumor.

NOTE Confidence: 0.815678101538462

 $00:03:30.960 \longrightarrow 00:03:32.941$  I looked at it myself and it

NOTE Confidence: 0.815678101538462

 $00{:}03{:}32{.}941 \dashrightarrow 00{:}03{:}35{.}040$  shows a lesion in the cerebellum,

NOTE Confidence: 0.815678101538462

 $00:03:35.040 \longrightarrow 00:03:36.980$  tumor in the cerebellum that

NOTE Confidence: 0.815678101538462

 $00:03:36.980 \longrightarrow 00:03:39.759$  we're going to have to deal with.

NOTE Confidence: 0.815678101538462

 $00{:}03{:}39{.}760 \dashrightarrow 00{:}03{:}41{.}508$  So we've checked out my OR schedule

NOTE Confidence: 0.815678101538462

 $00:03:41.508 \rightarrow 00:03:43.479$  on the way up here and it looks like

NOTE Confidence: 0.815678101538462

 $00:03:43.480 \rightarrow 00:03:45.398$  Tuesday afternoon we can do a surgery.

- NOTE Confidence: 0.945261257777778
- 00:03:45.400 --> 00:03:46.910 Are you sure you were
- NOTE Confidence: 0.94526125777778
- $00:03:46.910 \longrightarrow 00:03:48.118$  talking about the right?
- NOTE Confidence: 0.774472555
- $00{:}03{:}49{.}040 \dashrightarrow 00{:}03{:}49{.}550$  Yeah, a little.
- NOTE Confidence: 0.774472555
- $00:03:49.550 \rightarrow 00:03:50.400$  Jimmy, about four years old.
- NOTE Confidence: 0.774472555
- $00:03:50.400 \longrightarrow 00:03:51.336$  I walked by his bed when
- NOTE Confidence: 0.774472555
- $00:03:51.336 \longrightarrow 00:03:52.200$  I was coming up here.
- NOTE Confidence: 0.774472555
- $00:03:52.200 \rightarrow 00:03:53.120$  He was still just coming
- NOTE Confidence: 0.774472555
- $00:03:53.120 \longrightarrow 00:03:54.040$  out of the MRI scanner,
- NOTE Confidence: 0.78944732
- $00:03:54.040 \rightarrow 00:03:57.520$  but but he we, we thought he had the flu.
- NOTE Confidence: 0.78944732
- 00:03:57.520 --> 00:03:59.932 I mean, he's just had some nausea
- NOTE Confidence: 0.78944732
- $00:03:59.932 \rightarrow 00:04:01.720$  and and some headaches. Sometimes
- NOTE Confidence: 0.922372512
- $00{:}04{:}01{.}720 \dashrightarrow 00{:}04{:}03{.}421$  these brain tumors can push on the
- NOTE Confidence: 0.922372512
- $00:04:03.421 \rightarrow 00:04:05.382$  back of the brain and where they
- NOTE Confidence: 0.922372512
- $00{:}04{:}05{.}382 \dashrightarrow 00{:}04{:}07{.}152$  push can cause nause a and vomiting.
- NOTE Confidence: 0.922372512
- 00:04:07.160 --> 00:04:09.616 And sometimes it mimics well, no,
- NOTE Confidence: 0.922372512

 $00:04:09.616 \rightarrow 00:04:12.480$  it's not the flu, It's a brain tumor.

NOTE Confidence: 0.922372512

 $00:04:12.480 \longrightarrow 00:04:15.680$  So we set up the surgery for Tuesday.

NOTE Confidence: 0.922372512

 $00:04:15.680 \longrightarrow 00:04:18.190$  The pediatricians will come in and

NOTE Confidence: 0.922372512

 $00:04:18.190 \rightarrow 00:04:19.280$  tell you what Betty's going to.

NOTE Confidence: 0.922372512

00:04:19.280 --> 00:04:20.480 I don't know what Betty's going to yet.

NOTE Confidence: 0.922372512

 $00{:}04{:}20{.}480 \dashrightarrow 00{:}04{:}21{.}704$  We're going to keep him in

NOTE Confidence: 0.922372512

 $00:04:21.704 \longrightarrow 00:04:22.520$  the hospital till Tuesday.

NOTE Confidence: 0.922372512

 $00:04:22.520 \rightarrow 00:04:24.880$  Surgery looks like it'll be in the afternoon.

NOTE Confidence: 0.9611472

 $00{:}04{:}27{.}040 \dashrightarrow 00{:}04{:}28{.}200$  Any other questions? We

NOTE Confidence: 0.54838115

00:04:30.560 --> 00:04:32.440 didn't see him

NOTE Confidence: 0.72355813111111

 $00:04:32.440 \longrightarrow 00:04:33.880$  in. He'll be up here in a little while.

NOTE Confidence: 0.72355813111111

00:04:33.880 --> 00:04:34.874 I don't know. I didn't see him.

NOTE Confidence: 0.72355813111111

00:04:34.880 --> 00:04:36.000 I just saw him laying in the bed.

NOTE Confidence: 0.72355813111111

 $00{:}04{:}36{.}000 \dashrightarrow 00{:}04{:}38{.}265$  The the nurses are

NOTE Confidence: 0.72355813111111

 $00:04:38.265 \longrightarrow 00:04:40.360$  taking care of him. But

NOTE Confidence: 0.91659313

 $00:04:43.200 \longrightarrow 00:04:44.160$  any other questions,

- NOTE Confidence: 0.51257093
- 00:04:45.040 --> 00:04:48.720 I just can't leave it, but
- NOTE Confidence: 0.960271994166667
- $00:04:48.720 \rightarrow 00:04:50.328$  we may have some time to talk before
- NOTE Confidence: 0.960271994166667
- $00:04:50.328 \rightarrow 00:04:51.680$  the surgery on Tuesday. All right.
- NOTE Confidence: 0.689154
- 00:04:55.800 -> 00:04:56.498 All right. Well, the pediatricians
- NOTE Confidence: 0.689154
- $00:04:56.498 \longrightarrow 00:04:57.800$  will be in, in a little bit. OK.
- NOTE Confidence: 0.93966035
- $00:05:05.880 \rightarrow 00:05:08.676$  Well, that's one perspective on medicine.
- NOTE Confidence: 0.904789238333333
- $00:05:11.760 \longrightarrow 00:05:13.170$  I thought we talked today about
- NOTE Confidence: 0.904789238333333
- $00:05:13.170 \longrightarrow 00:05:14.799$  some some of the pitfalls that
- NOTE Confidence: 0.782784098
- 00:05:18.400 --> 00:05:21.184 I've encountered you may
- NOTE Confidence: 0.782784098
- $00{:}05{:}21.184 \dashrightarrow 00{:}05{:}24.120$  encounter and it and falls into
- NOTE Confidence: 0.782784098
- $00:05:24.120 \longrightarrow 00:05:27.000$  just about everything we do.
- NOTE Confidence: 0.782784098
- $00{:}05{:}27.000 \dashrightarrow 00{:}05{:}28.240$  I don't have any conflicts.
- NOTE Confidence: 0.782784098
- $00:05:28.240 \dashrightarrow 00:05:30.676$  I do receive royalties from Coursera.
- NOTE Confidence: 0.782784098
- $00{:}05{:}30{.}680 \dashrightarrow 00{:}05{:}31{.}680$  They're not very much.
- NOTE Confidence: 0.928852241428571
- $00{:}05{:}35{.}120 \dashrightarrow 00{:}05{:}40.792$  There was a man named Charles Drake and very,
- NOTE Confidence: 0.928852241428571

 $00:05:40.792 \longrightarrow 00:05:45.880$  very prominent vascular neurosurgeon

NOTE Confidence: 0.928852241428571

 $00{:}05{:}45{.}880 \dashrightarrow 00{:}05{:}51{.}176$  from London ON he he he didn't

NOTE Confidence: 0.928852241428571

 $00:05:51.176 \longrightarrow 00:05:52.716$  tout all of his successes.

NOTE Confidence: 0.928852241428571

 $00:05:52.720 \longrightarrow 00:05:55.240$  He would, he would talk about

NOTE Confidence: 0.928852241428571

 $00:05:55.240 \longrightarrow 00:05:58.648$  the problems he had and the

NOTE Confidence: 0.928852241428571

 $00:05:58.648 \rightarrow 00:06:01.500$  disappointments and the the the

NOTE Confidence: 0.928852241428571

 $00:06:01.500 \rightarrow 00:06:04.160$  times when it was just a disaster

NOTE Confidence: 0.920031468

 $00:06:07.120 \longrightarrow 00:06:09.560$  after after he was gone.

NOTE Confidence: 0.920031468

 $00{:}06{:}09{.}560 \dashrightarrow 00{:}06{:}13{.}345$  This is the the fish named

NOTE Confidence: 0.920031468

 $00{:}06{:}13.345 \dashrightarrow 00{:}06{:}15.280$  Charlie that's at the the

NOTE Confidence: 0.93323535

 $00{:}06{:}17.680 \dashrightarrow 00{:}06{:}22.758$  entrance to that that area in in the

NOTE Confidence: 0.93323535

00:06:22.760 --> 00:06:24.660 Medical Center in the University

NOTE Confidence: 0.93323535

 $00:06:24.660 \dashrightarrow 00:06:26.560$  Hospital at his Medical Center.

NOTE Confidence: 0.7812295116666667

00:06:32.640 --> 00:06:35.408 So as you as you heard, I I did my

NOTE Confidence: 0.7812295116666667

 $00:06:35.408 \rightarrow 00:06:38.720$  residency at Duke and it's been a while.

NOTE Confidence: 0.781229511666667

00:06:38.720 --> 00:06:42.352 Two of my Co residents had been in Vietnam.

- NOTE Confidence: 0.781229511666667
- $00{:}06{:}42.352 \dashrightarrow 00{:}06{:}46.200$  One was a General Medical officer and he
- NOTE Confidence: 0.7812295116666667
- $00:06:46.200 \rightarrow 00:06:49.439$  was dropped out of a helicopter and a wire.
- NOTE Confidence: 0.781229511666667
- $00{:}06{:}49{.}440 \dashrightarrow 00{:}06{:}51{.}516$  The other was a major and
- NOTE Confidence: 0.7812295116666667
- $00:06:51.516 \longrightarrow 00:06:53.600$  then later became a general.
- NOTE Confidence: 0.7812295116666667
- $00{:}06{:}53.600 \dashrightarrow 00{:}06{:}56.665$  So what do you think that most chief
- NOTE Confidence: 0.781229511666667
- $00:06:56.665 \rightarrow 00:07:00.200$  residents might do right after they finish?
- NOTE Confidence: 0.7812295116666667
- 00:07:00.200 -> 00:07:03.116 Well, he went to Ranger School.
- NOTE Confidence: 0.781229511666667
- $00:07:03.120 \rightarrow 00:07:05.712$  He was certainly a great guy to have around.
- NOTE Confidence: 0.7812295116666667
- $00{:}07{:}05{.}720 \dashrightarrow 00{:}07{:}09{.}038$  When disputes arose.
- NOTE Confidence: 0.781229511666667
- $00:07:09.040 \longrightarrow 00:07:11.749$  The one who dropped out of was
- NOTE Confidence: 0.781229511666667
- $00:07:11.749 \longrightarrow 00:07:14.040$  dropped out of helicopters,
- NOTE Confidence: 0.781229511666667
- $00:07:14.040 \dashrightarrow 00:07:18.485$  came back straight out of Tim O'Brien's.
- NOTE Confidence: 0.7812295116666667
- $00:07:18.485 \dashrightarrow 00:07:22.160$  The the thing they things they carried.
- NOTE Confidence: 0.781229511666667
- 00:07:22.160 --> 00:07:24.603 Another resident went on to become a
- NOTE Confidence: 0.7812295116666667
- $00:07:24.603 \dashrightarrow 00:07:27.076$  chicken farmer in his in his off hours.
- NOTE Confidence: 0.781229511666667

 $00:07:27.080 \rightarrow 00:07:31.076$  So I think everybody needs a distraction.

NOTE Confidence: 0.781229511666667

 $00{:}07{:}31{.}080 \dashrightarrow 00{:}07{:}33{.}438$  This guy on the on the right is a

NOTE Confidence: 0.8702867866666667

 $00{:}07{:}36{.}440 \dashrightarrow 00{:}07{:}38{.}558$  weekend warrior at that time and

NOTE Confidence: 0.8719181966666667

 $00:07:41.920 \rightarrow 00:07:44.706$  mostly took care of cuts and scratches

NOTE Confidence: 0.8719181966666667

00:07:44.706 --> 00:07:47.312 for people who were training in

NOTE Confidence: 0.8719181966666667

 $00{:}07{:}47.312 \dashrightarrow 00{:}07{:}48.720$  the occasional lightning injury.

NOTE Confidence: 0.97046720875

 $00:07:51.920 \rightarrow 00:07:54.640$  We worked every other night for six years.

NOTE Confidence: 0.97046720875

 $00:07:54.640 \rightarrow 00:07:57.251$  The tough ones were in medicine, though.

NOTE Confidence: 0.97046720875

 $00{:}07{:}57{.}251 \dashrightarrow 00{:}08{:}00{.}197$  They worked five out of seven.

NOTE Confidence: 0.97046720875

00:08:00.200 --> 00:08:02.332 Pediatrics had Sam Katz,

NOTE Confidence: 0.97046720875

 $00{:}08{:}02{.}332 \dashrightarrow 00{:}08{:}05{.}708$  who brought measles vaccine to us.

NOTE Confidence: 0.97046720875

 $00:08:05.708 \dashrightarrow 00:08:09.080$  OBGYN had Charles Hammond to help

NOTE Confidence: 0.97046720875

 $00{:}08{:}09{.}080 \dashrightarrow 00{:}08{:}11{.}000$  develop cures for trophoblasts.

NOTE Confidence: 0.97046720875

00:08:11.000 --> 00:08:12.731 Plastic disease, well,

NOTE Confidence: 0.97046720875

00:08:12.731 --> 00:08:15.039 Surgery had David Savaston,

NOTE Confidence: 0.97046720875

00:08:15.040 - 00:08:17.504 who was one of the great figures

- NOTE Confidence: 0.97046720875
- 00:08:17.504 --> 00:08:19.530 of American surgery and medicine,
- NOTE Confidence: 0.97046720875
- $00:08:19.530 \longrightarrow 00:08:21.955$  was led by Jim Weingarten,
- NOTE Confidence: 0.97046720875
- $00:08:21.960 \longrightarrow 00:08:24.480$  who later had the LED the NIH.
- NOTE Confidence: 0.97046720875
- 00:08:24.480 --> 00:08:27.839 The top left was was Main Chief Guy,
- NOTE Confidence: 0.97046720875
- $00{:}08{:}27.840 \dashrightarrow 00{:}08{:}32.112$  Guy Odom and Barnes.
- NOTE Confidence: 0.97046720875
- $00{:}08{:}32.112 \dashrightarrow 00{:}08{:}35.184$  Woodall was the the former chief
- NOTE Confidence: 0.97046720875
- $00:08:35.184 \dashrightarrow 00:08:38.136$  and still still an active person.
- NOTE Confidence: 0.97046720875
- $00:08:38.136 \longrightarrow 00:08:42.448$  He went went on to be Dean of the medical
- NOTE Confidence: 0.97046720875
- $00:08:42.448 \rightarrow 00:08:45.720$  school and then president of the university.
- NOTE Confidence: 0.97046720875
- $00:08:45.720 \longrightarrow 00:08:47.600$  It was a great turmoil
- NOTE Confidence: 0.97046720875
- $00:08:47.600 \longrightarrow 00:08:49.480$  over the war in Vietnam.
- NOTE Confidence: 0.97046720875
- 00:08:49.480 --> 00:08:51.175 On many campuses,
- NOTE Confidence: 0.97046720875
- $00:08:51.175 \rightarrow 00:08:53.435$  including including New Haven,
- NOTE Confidence: 0.699436855
- $00{:}08{:}55{.}600 \dashrightarrow 00{:}08{:}57{.}300$  Doctor Woodall would operate when
- NOTE Confidence: 0.699436855
- $00:08:57.300 \rightarrow 00:08:59.000$  he's president of the university.
- NOTE Confidence: 0.699436855

 $00:08:59.000 \rightarrow 00:09:01.922$  He'd operate in the morning and

NOTE Confidence: 0.699436855

 $00:09:01.922 \longrightarrow 00:09:05.763$  then he'd walk out to the so-called

NOTE Confidence: 0.699436855

 $00:09:05.763 \dashrightarrow 00:09:09.004$  quadrangle at at Duke and then sit NOTE Confidence: 0.699436855

 $00:09:09.004 \rightarrow 00:09:11.731$  with the students in the grass

NOTE Confidence: 0.699436855

 $00:09:11.731 \longrightarrow 00:09:14.600$  or on a wall and listen to them.

NOTE Confidence: 0.699436855

 $00{:}09{:}14.600 \dashrightarrow 00{:}09{:}16.680$  Just listen to them for as

NOTE Confidence: 0.699436855

 $00:09:16.680 \longrightarrow 00:09:18.080$  long as they wanted to,

NOTE Confidence: 0.699436855

 $00:09:18.080 \rightarrow 00:09:21.452$  wanted to speak in the evening.

NOTE Confidence: 0.699436855

00:09:21.452 --> 00:09:23.636 He did whatever university presidents do.

NOTE Confidence: 0.843119649

00:09:26.360 --> 00:09:27.840 Bill Anlian was the Dean

NOTE Confidence: 0.843119649

 $00:09:27.840 \longrightarrow 00:09:29.320$  of of the medical school,

NOTE Confidence: 0.843119649

 $00{:}09{:}29{.}320 \dashrightarrow 00{:}09{:}31{.}840$  and in the top right is John Anlian.

NOTE Confidence: 0.843119649

 $00:09:31.840 \longrightarrow 00:09:36.680$  He's the person for for whom

NOTE Confidence: 0.843119649

 $00:09:36.680 \longrightarrow 00:09:38.880$  the Anlian Center is named.

NOTE Confidence: 0.843119649

00:09:38.880 --> 00:09:41.078 Here he's pictured with his wife,

NOTE Confidence: 0.843119649

 $00:09:41.080 \longrightarrow 00:09:44.616$  Betty. He he was a general

- NOTE Confidence: 0.843119649
- 00:09:44.616 --> 00:09:47.720 surgeon in San Francisco.

 $00{:}09{:}47{.}720 \dashrightarrow 00{:}09{:}49{.}120$  He and Bill Anlian

NOTE Confidence: 0.819900543333333

 $00:09:51.680 \rightarrow 00:09:55.825$  came to Yale, immigrating from Egypt to

NOTE Confidence: 0.819900543333333

 $00:09:55.825 \dashrightarrow 00:09:57.945$  Yale College and then went on to the

NOTE Confidence: 0.819900543333333

 $00{:}09{:}57{.}945 \dashrightarrow 00{:}10{:}00{.}502$  Yale Medical School and and remained

NOTE Confidence: 0.819900543333333

 $00:10:00.502 \rightarrow 00:10:03.357$  very devoted to the institution.

NOTE Confidence: 0.819900543333333

 $00:10:03.360 \longrightarrow 00:10:05.096$  I think most of you have been

NOTE Confidence: 0.819900543333333

00:10:05.096 --> 00:10:07.392 in our our labs or somebody's

NOTE Confidence: 0.819900543333333

 $00{:}10{:}07{.}392 \dashrightarrow 00{:}10{:}10{.}080$  lab in the Anlian Center.

NOTE Confidence: 0.819900543333333

00:10:10.080 --> 00:10:12.120 Alan Friedman was my junior resident

NOTE Confidence: 0.819900543333333

 $00:10:12.120 \longrightarrow 00:10:14.718$  when I was chief and I think

NOTE Confidence: 0.819900543333333

 $00{:}10{:}14.718 \dashrightarrow 00{:}10{:}16.940$  there's always a particularly fine

NOTE Confidence: 0.819900543333333

00:10:16.940 --> 00:10:19.620 relationship between between residents

NOTE Confidence: 0.819900543333333

00:10:19.620 $\operatorname{-->}$ 00:10:23.272 and particularly between the the chief

NOTE Confidence: 0.819900543333333

 $00{:}10{:}23.272$  -->  $00{:}10{:}26.394$  resident and his and his junior resident.

 $00:10:26.400 \rightarrow 00:10:30.200$  There were some memorable lessons

NOTE Confidence: 0.819900543333333

00:10:30.200 --> 00:10:33.680 from mentors across this time.

NOTE Confidence: 0.792233751111111

 $00:10:36.320 \longrightarrow 00:10:38.805$  Doctor Odom informed us that

NOTE Confidence: 0.792233751111111

00:10:38.805 --> 00:10:40.793 Medicare would wreck medicine.

NOTE Confidence: 0.792233751111111

00:10:40.800 --> 00:10:42.695 Doctor Woodall was about 5

NOTE Confidence: 0.792233751111111

 $00:10:42.695 \rightarrow 00:10:45.400$  feet two inches on a good day.

NOTE Confidence: 0.792233751111111

 $00{:}10{:}45{.}400 \dashrightarrow 00{:}10{:}47{.}745$  You know, he always stood at a

NOTE Confidence: 0.792233751111111

00:10:47.745 --> 00:10:49.675 stool when we operated together

NOTE Confidence: 0.79223375111111

 $00{:}10{:}49.675 \dashrightarrow 00{:}10{:}52.636$  so I wouldn't need to bend over.

NOTE Confidence: 0.792233751111111

 $00:10:52.640 \longrightarrow 00:10:54.395$  Doctor Odom fired me week

NOTE Confidence: 0.792233751111111

00:10:54.395 --> 00:10:56.580 after week after he found out

NOTE Confidence: 0.792233751111111

00:10:56.580 --> 00:10:58.360 I'd voted for Jimmy Carter,

NOTE Confidence: 0.958229046

00:11:00.520 --> 00:11:04.186 and on some occasion I managed

NOTE Confidence: 0.958229046

 $00:11:04.186 \longrightarrow 00:11:06.502$  to annoy him or make some

NOTE Confidence: 0.958229046

 $00:11:06.502 \rightarrow 00:11:08.879$  grievous error in his estimation.

NOTE Confidence: 0.958229046

 $00:11:08.880 \longrightarrow 00:11:11.970$  And he did tell me that I was

- NOTE Confidence: 0.958229046
- $00:11:11.970 \longrightarrow 00:11:14.640$  chief resident at the time and
- NOTE Confidence: 0.958229046
- 00:11:14.640 $\operatorname{-->}$ 00:11:16.800 planned to come to New Haven.
- NOTE Confidence: 0.958229046
- $00:11:16.800 \longrightarrow 00:11:18.096$  He told me that he was going to
- NOTE Confidence: 0.958229046
- $00{:}11{:}18.096 \dashrightarrow 00{:}11{:}19.095$  send me to Pittsburgh instead
- NOTE Confidence: 0.958229046
- 00:11:19.095 --> 00:11:20.551 of Yale if I did that again.
- NOTE Confidence: 0.634162203333333
- $00{:}11{:}31{.}760 \dashrightarrow 00{:}11{:}33{.}320$  I I love being a resident.
- NOTE Confidence: 0.634162203333333
- 00:11:33.320 --> 00:11:35.632 I'm sure I I hurt a number of
- NOTE Confidence: 0.634162203333333
- 00:11:35.632 --> 00:11:37.465 people when I was learning
- NOTE Confidence: 0.634162203333333
- $00:11:37.465 \longrightarrow 00:11:39.037$  and probably still have,
- NOTE Confidence: 0.931196872
- 00:11:42.000 --> 00:11:45.244 but I hope I helped some in
- NOTE Confidence: 0.931196872
- $00:11:45.244 \rightarrow 00:11:48.154$  a in a reasonable number.
- NOTE Confidence: 0.931196872
- $00{:}11{:}48.160 \dashrightarrow 00{:}11{:}52.234$  Try to imagine taking care of folks
- NOTE Confidence: 0.931196872
- 00:11:52.240 --> 00:11:54.928 without computerized imaging,
- NOTE Confidence: 0.931196872
- 00:11:54.928 --> 00:11:59.960 without CT, without MRI.
- NOTE Confidence: 0.931196872
- $00:11:59.960 \longrightarrow 00:12:03.830$  You know, we became an awful lot
- NOTE Confidence: 0.931196872

 $00:12:03.830 \longrightarrow 00:12:05.678$  smarter with the introduction

NOTE Confidence: 0.931196872

 $00:12:05.678 \rightarrow 00:12:07.999$  of computerized imaging.

NOTE Confidence: 0.931196872

 $00{:}12{:}08{.}000 \dashrightarrow 00{:}12{:}11{.}381$  Before you see on the left a

NOTE Confidence: 0.931196872

 $00:12:11.381 \rightarrow 00:12:13.407$  pneumoencephalogram where air was

NOTE Confidence: 0.931196872

 $00{:}12{:}13.407 \dashrightarrow 00{:}12{:}15.837$  injected with a lumbar puncture

NOTE Confidence: 0.931196872

 $00:12:15.840 \longrightarrow 00:12:17.320$  on the right and arteriogram.

NOTE Confidence: 0.931196872

00:12:17.320 --> 00:12:21.280 We did direct stick carotid arteriograms,

NOTE Confidence: 0.823245408571428

 $00{:}12{:}26.160 \dashrightarrow 00{:}12{:}28.200$  but now we're a whole lot smarter. I hope

NOTE Confidence: 0.88726411

 $00{:}12{:}31{.}240 \dashrightarrow 00{:}12{:}32{.}536$  these are the original

NOTE Confidence: 0.88726411

00:12:32.536 --> 00:12:34.156 devices in in New Haven,

NOTE Confidence: 0.88726411

 $00{:}12{:}34{.}160 \dashrightarrow 00{:}12{:}37{.}472$  the CT scanner that had a water bag

NOTE Confidence: 0.88726411

 $00{:}12{:}37{.}472 \dashrightarrow 00{:}12{:}41{.}157$  around it instead of being a big circle.

NOTE Confidence: 0.88726411

 $00:12:41.160 \longrightarrow 00:12:44.392$  And I came in the early 70s and

NOTE Confidence: 0.88726411

 $00{:}12{:}44{.}392 \dashrightarrow 00{:}12{:}47{.}895$  then in the mid 80s we we got our

NOTE Confidence: 0.88726411

 $00{:}12{:}47.895 \dashrightarrow 00{:}12{:}50.950$  first first magnet and this is that

NOTE Confidence: 0.88726411

 $00:12:50.950 \rightarrow 00:12:53.678$  magnet the devices you see now or

- NOTE Confidence: 0.88726411
- $00:12:53.680 \rightarrow 00:12:58.360$  considerably more sophisticated.

 $00{:}12{:}58{.}360 \dashrightarrow 00{:}13{:}01{.}742$  The left is ACT scanner and the mid as

NOTE Confidence: 0.88726411

 $00{:}13{:}01.742 \dashrightarrow 00{:}13{:}06.440$ a mid one is a Siemens 3 Tesla MRI device.

NOTE Confidence: 0.88726411

 $00:13:06.440 \longrightarrow 00:13:09.606$  And then one of the rights the the

NOTE Confidence: 0.88726411

 $00{:}13{:}09.606 \dashrightarrow 00{:}13{:}12.236$  pediatric magnet which has been

NOTE Confidence: 0.88726411

 $00{:}13{:}12{.}240 \dashrightarrow 00{:}13{:}14{.}120$  decorated like a little castle.

NOTE Confidence: 0.966677515714286

 $00{:}13{:}16.320 \dashrightarrow 00{:}13{:}19.650$  This is what we have in our operating

NOTE Confidence: 0.966677515714286

00:13:19.650 --> 00:13:23.640 room in Smilo so-called Emer system,

NOTE Confidence: 0.966677515714286

 $00{:}13{:}23.640 \dashrightarrow 00{:}13{:}26.484$  where there's a magnet on a

NOTE Confidence: 0.966677515714286

 $00:13:26.484 \longrightarrow 00:13:28.516$  overhead railroad that can

NOTE Confidence: 0.966677515714286

 $00:13:28.520 \rightarrow 00:13:31.320$  travel into two operating rooms.

NOTE Confidence: 0.966677515714286

 $00:13:31.320 \longrightarrow 00:13:34.596$  Does men mean that we we have,

NOTE Confidence: 0.966677515714286

 $00{:}13{:}34.600 \dashrightarrow 00{:}13{:}38.114$  we're happy to have a very compulsive

NOTE Confidence: 0.966677515714286

 $00{:}13{:}38{.}120 \dashrightarrow 00{:}13{:}40{.}360$  staff in the operating room to make

NOTE Confidence: 0.966677515714286

 $00{:}13{:}40{.}360 \dashrightarrow 00{:}13{:}42{.}972$  sure we haven't left needles or

 $00:13:42.972 \rightarrow 00:13:46.560$  instruments anywhere near the my field.

NOTE Confidence: 0.789431566

00:13:53.030 --> 00:13:54.270 My first came to Yale,

NOTE Confidence: 0.8140192

 $00:13:56.960 \longrightarrow 00:13:59.480$  or actually it was my second

NOTE Confidence: 0.8140192

00:13:59.480 --> 00:14:02.024 visit in 1977 on July 9th.

NOTE Confidence: 0.8140192

 $00{:}14{:}02{.}024 \dashrightarrow 00{:}14{:}05{.}361$  First time I'd been was to A to

NOTE Confidence: 0.8140192

00:14:05.361 --> 00:14:07.800 a meeting and my my second visit

NOTE Confidence: 0.8140192

 $00:14:07.800 \longrightarrow 00:14:09.560$  was for a faculty interview.

NOTE Confidence: 0.8140192

 $00{:}14{:}09{.}560 \dashrightarrow 00{:}14{:}13{.}280$  Well, I had a cold a fever Coraza.

NOTE Confidence: 0.8140192

00:14:13.280 --> 00:14:16.096 There was 9 inches of snow that fell

NOTE Confidence: 0.8140192

 $00{:}14{:}16.096 \dashrightarrow 00{:}14{:}18.552$  that day and they sent me to the

NOTE Confidence: 0.8140192

 $00{:}14{:}18.552 \dashrightarrow 00{:}14{:}20.358$  VA for more interviews on a bus.

NOTE Confidence: 0.930039748888889

00:14:23.320 --> 00:14:25.630 I'm sure you recognize some

NOTE Confidence: 0.930039748888889

 $00:14:25.630 \longrightarrow 00:14:28.142$  of these places and a lovely

NOTE Confidence: 0.930039748888889

00:14:28.142 --> 00:14:29.797 photograph of our Medical Center.

NOTE Confidence: 0.865613778888889

00:14:32.960 --> 00:14:36.560 When I was 29, I joined the Yale faculty.

NOTE Confidence: 0.865613778888889

 $00{:}14{:}36{.}560 \dashrightarrow 00{:}14{:}39{.}836$  Nevertheless, this has been my only job.

00:14:39.840 --> 00:14:44.240 I was an electrician's assistant, an orderly.

NOTE Confidence: 0.865613778888889

 $00:14:44.240 \longrightarrow 00:14:46.090$  I thought medical school would

NOTE Confidence: 0.865613778888889

00:14:46.090 --> 00:14:49.300 be less work, and a glass washer

NOTE Confidence: 0.865613778888889

 $00:14:49.300 \rightarrow 00:14:51.400$  and microbiology during college.

NOTE Confidence: 0.865613778888889

 $00:14:51.400 \longrightarrow 00:14:52.800$  Otherwise, I've been here.

NOTE Confidence: 0.90815284

00:14:56.080 $\operatorname{-->}$ 00:14:59.293 Once I arrived, it took me a while to

NOTE Confidence: 0.90815284

 $00{:}14{:}59{.}293 \dashrightarrow 00{:}15{:}01{.}960$  realize that my chief Doctor Collins

NOTE Confidence: 0.90815284

 $00:15:01.960 \rightarrow 00:15:03.880$  had divided his office in half for me.

NOTE Confidence: 0.914101291666667

00:15:06.880 --> 00:15:11.116 While this place can seem harsh,

NOTE Confidence: 0.914101291666667

 $00:15:11.120 \longrightarrow 00:15:12.716$  there are aspects that divine it,

NOTE Confidence: 0.914101291666667

 $00:15:12.720 \longrightarrow 00:15:16.880$  that define it. Why did you choose it?

NOTE Confidence: 0.914101291666667

00:15:16.880 --> 00:15:18.760 And why did I just decide to stay?

NOTE Confidence: 0.90949193

 $00:15:21.080 \longrightarrow 00:15:23.040$  Well, we all have obligations.

NOTE Confidence: 0.90949193

 $00{:}15{:}23.040 \dashrightarrow 00{:}15{:}24.680$  You perhaps to study medicine.

NOTE Confidence: 0.90949193

 $00{:}15{:}24.680 \dashrightarrow 00{:}15{:}27.208$  And while I'm sure I've still

 $00:15:27.208 \rightarrow 00:15:28.672$  been learning and needed to take

NOTE Confidence: 0.90949193

 $00{:}15{:}28.672 \dashrightarrow 00{:}15{:}30.968$  care of patients, write grants,

NOTE Confidence: 0.90949193

 $00:15:30.968 \rightarrow 00:15:33.728$  do research teach published papers,

NOTE Confidence: 0.90949193

 $00:15:33.728 \rightarrow 00:15:34.880$  the usual things.

NOTE Confidence: 0.790240336363636

00:15:37.040 --> 00:15:39.350 The critical piece I thought and I

NOTE Confidence: 0.790240336363636

 $00{:}15{:}39{.}350 \dashrightarrow 00{:}15{:}44{.}200$  and I still believe is that our role

NOTE Confidence: 0.790240336363636

 $00:15:44.200 \rightarrow 00:15:50.284$  and my role was to think sounds right

NOTE Confidence: 0.790240336363636

 $00:15:50.284 \rightarrow 00:15:52.794$  until you appreciate the incredible

NOTE Confidence: 0.790240336363636

 $00:15:52.800 \rightarrow 00:15:56.478$  environment in the opportunities we have.

NOTE Confidence: 0.5769612

00:16:00.760 --> 00:16:01.480 Clinically

NOTE Confidence: 0.952992278333333

 $00{:}16{:}03.640 \dashrightarrow 00{:}16{:}05.920$  we have lots of obligations and

NOTE Confidence: 0.952992278333333

 $00:16:05.920 \longrightarrow 00:16:08.239$  lots of patients that need care.

NOTE Confidence: 0.952992278333333

 $00:16:08.240 \longrightarrow 00:16:11.909$  This is in early days,

NOTE Confidence: 0.952992278333333

 $00:16:11.909 \longrightarrow 00:16:14.590$  the young man with a with a

NOTE Confidence: 0.952992278333333

 $00:16:14.688 \longrightarrow 00:16:17.520$  tumor that's bulging out of the

NOTE Confidence: 0.952992278333333

 $00:16:17.520 \longrightarrow 00:16:19.968$  craniotomy side on the left and

- NOTE Confidence: 0.952992278333333
- $00:16:19.968 \longrightarrow 00:16:23.900$  on the right after it's out.
- NOTE Confidence: 0.952992278333333
- 00:16:23.900 --> 00:16:30.120 This was in our operating rooms
- NOTE Confidence: 0.952992278333333
- $00{:}16{:}30{.}120 \dashrightarrow 00{:}16{:}32{.}822$  and what was then called the the
- NOTE Confidence: 0.952992278333333
- $00:16:32.822 \rightarrow 00:16:34.915$  New Haven Pavilion on the right
- NOTE Confidence: 0.952992278333333
- $00{:}16{:}34{.}915 \dashrightarrow 00{:}16{:}37{.}285$  by Tompkins for her offices are
- NOTE Confidence: 0.952992278333333
- $00{:}16{:}37.285 \dashrightarrow 00{:}16{:}39.572$  now and now the actual location
- NOTE Confidence: 0.952992278333333
- $00:16:39.572 \rightarrow 00:16:41.116$  of the neurosurgery labs.
- NOTE Confidence: 0.952992278333333
- $00:16:41.120 \longrightarrow 00:16:44.492$  We had 10 operating rooms and we
- NOTE Confidence: 0.952992278333333
- $00{:}16{:}44{.}492 \dashrightarrow 00{:}16{:}46{.}354$  operated in room one of the 10
- NOTE Confidence: 0.926527
- 00:16:50.960 --> 00:16:56.400 and after taking out the tumor,
- NOTE Confidence: 0.926527
- $00{:}16{:}56{.}400 \dashrightarrow 00{:}16{:}59{.}120$  this little white spider just
- NOTE Confidence: 0.926527
- $00{:}16{:}59{.}120 \dashrightarrow 00{:}17{:}02{.}508$  shot down on the little little
- NOTE Confidence: 0.926527
- $00:17:02.508 \rightarrow 00:17:06.840$  spinneret on the on the thread right
- NOTE Confidence: 0.926527
- $00{:}17{:}06.840 \dashrightarrow 00{:}17{:}08.760$  onto the brain and then crawled
- NOTE Confidence: 0.926527
- $00:17:08.760 \longrightarrow 00:17:11.170$  under the dura and disappeared.
- NOTE Confidence: 0.926527

- $00:17:11.170 \longrightarrow 00:17:14.795$  Well, we irrigated a lot
- NOTE Confidence: 0.926527
- $00:17:14.800 \longrightarrow 00:17:16.240$  and hopefully we washed out.
- NOTE Confidence: 0.926527
- $00{:}17{:}16.240 \dashrightarrow 00{:}17{:}18.320$  This creature
- NOTE Confidence: 0.904956051111111
- $00:17:21.040 \rightarrow 00:17:22.240$  patient did well,
- NOTE Confidence: 0.904956051111111
- $00:17:22.240 \longrightarrow 00:17:24.640$  never seemed to have any problems.
- NOTE Confidence: 0.904956051111111
- $00{:}17{:}24.640 \dashrightarrow 00{:}17{:}26.524$  Some not too long after that
- NOTE Confidence: 0.904956051111111
- $00:17:26.524 \longrightarrow 00:17:28.439$  we did move to the new,
- NOTE Confidence: 0.904956051111111
- $00:17:28.440 \longrightarrow 00:17:30.808$  newer operating rooms in
- NOTE Confidence: 0.904956051111111
- $00{:}17{:}30{.}808 \dashrightarrow 00{:}17{:}32{.}708$  the in the South pavilion.
- NOTE Confidence: 0.904956051111111
- $00{:}17{:}32.708 \dashrightarrow 00{:}17{:}35.120$  And then later came the smile O ours
- NOTE Confidence: 0.8855424
- $00:17:57.620 \longrightarrow 00:18:00.944$  This is a preview of the
- NOTE Confidence: 0.8855424
- 00:18:00.944 --> 00:18:02.846 Neurobiology 500B course.
- NOTE Confidence: 0.8855424
- $00:18:02.846 \longrightarrow 00:18:06.084$  With apologies to the 1966
- NOTE Confidence: 0.8855424
- 00:18:06.084 --> 00:18:07.716 film Fantastic Voyage.
- NOTE Confidence: 0.8855424
- $00:18:07.716 \longrightarrow 00:18:10.436$  We'll talk about some anatomy,
- NOTE Confidence: 0.8855424
- 00:18:10.440 --> 00:18:11.919 Physiology and pathology.

- NOTE Confidence: 0.8855424
- 00:18:11.919 --> 00:18:14.877 Then Alina Hopkins will tell us

 $00{:}18{:}14.877 \dashrightarrow 00{:}18{:}17.958$  her experiences with hydrocephalus.

NOTE Confidence: 0.8855424

00:18:17.960 --> 00:18:19.932 Finally, you'll do endoscopic

NOTE Confidence: 0.8855424

 $00{:}18{:}19{.}932 \dashrightarrow 00{:}18{:}22{.}397$  surgery on green and red

NOTE Confidence: 0.8855424

 $00{:}18{:}22{.}397 \dashrightarrow 00{:}18{:}24{.}879$  Peppers to retrieve their seeds.

NOTE Confidence: 0.8855424

00:18:24.880 --> 00:18:26.760 I hope you enjoy it.

NOTE Confidence: 0.8855424

 $00:18:26.760 \longrightarrow 00:18:28.278$  Let me give you a preview.

NOTE Confidence: 0.88707143375

 $00{:}18{:}30{.}640 \dashrightarrow 00{:}18{:}33{.}000$  In the lateral ventricle,

NOTE Confidence: 0.88707143375

 $00{:}18{:}33{.}000 \dashrightarrow 00{:}18{:}37{.}440$  you'll see the septum, pellucidum,

NOTE Confidence: 0.88707143375

 $00:18:37.440 \longrightarrow 00:18:42.440$  choroplexis, foramen and Monroe.

NOTE Confidence: 0.88707143375

 $00{:}18{:}42{.}440 \dashrightarrow 00{:}18{:}47{.}720$  The frame of the foramen is the fornix.

NOTE Confidence: 0.88707143375

 $00{:}18{:}47{.}720 \dashrightarrow 00{:}18{:}50{.}960$  That is the pipeline that lays down memory,

NOTE Confidence: 0.88707143375

 $00{:}18{:}50{.}960 \dashrightarrow 00{:}18{:}52{.}604$  all new memory.

NOTE Confidence: 0.88707143375

 $00{:}18{:}52{.}604 \dashrightarrow 00{:}18{:}55{.}824$  In the third ventricle you see

NOTE Confidence: 0.88707143375

 $00:18:55.824 \rightarrow 00:19:00.240$  the mammary bodies at 6:00,

 $00:19:00.240 \rightarrow 00:19:04.360$  the posterior optic chiasm at 12:00.

NOTE Confidence: 0.88707143375

 $00:19:04.360 \longrightarrow 00:19:07.960$  Just below is the infundibular

NOTE Confidence: 0.88707143375

 $00:19:07.960 \rightarrow 00:19:11.830$  recess or the top of the pituitary

NOTE Confidence: 0.88707143375

 $00{:}19{:}11{.}830 \dashrightarrow 00{:}19{:}16{.}902$  stalk In the center billowing up is

NOTE Confidence: 0.88707143375

 $00{:}19{:}16{.}902 \dashrightarrow 00{:}19{:}19{.}194$  the floor of the third ventricle.

NOTE Confidence: 0.88707143375

00:19:19.200 --> 00:19:21.688 Maybe you can see a red hint below

NOTE Confidence: 0.88707143375

 $00:19:21.688 \longrightarrow 00:19:24.440$  it That is the basilar artery.

NOTE Confidence: 0.88707143375

 $00:19:24.440 \longrightarrow 00:19:26.932$  In the next frame you see the

NOTE Confidence: 0.88707143375

 $00{:}19{:}26{.}932 \dashrightarrow 00{:}19{:}28{.}760$  basilar artery itself below this

NOTE Confidence: 0.88707143375

00:19:28.760 --> 00:19:30.660 billowing membrane that is the

NOTE Confidence: 0.88707143375

 $00:19:30.660 \longrightarrow 00:19:32.999$  floor of the third ventricle.

NOTE Confidence: 0.88707143375

 $00:19:33.000 \longrightarrow 00:19:35.808$  The goal of this operation is

NOTE Confidence: 0.88707143375

 $00:19:35.808 \rightarrow 00:19:38.764$  to create a passage way for CSF,

NOTE Confidence: 0.88707143375

 $00{:}19{:}38{.}764 \dashrightarrow 00{:}19{:}42{.}005$  flow from the third ventricle to

NOTE Confidence: 0.88707143375

00:19:42.005 --> 00:19:44.630 basler cisterns and bypass the

NOTE Confidence: 0.88707143375

 $00:19:44.630 \longrightarrow 00:19:48.186$  aqueduct and the outlets of the 4th

- NOTE Confidence: 0.88707143375
- $00:19:48.186 \rightarrow 00:19:50.638$  ventricle to treat hydrocephalus.
- NOTE Confidence: 0.95636639444444
- $00:19:52.920 \longrightarrow 00:19:55.832$  To get there, we need to plan an
- NOTE Confidence: 0.95636639444444
- $00:19:55.832 \rightarrow 00:19:58.216$  operation. The approach is right
- NOTE Confidence: 0.95636639444444
- $00:19:58.216 \rightarrow 00:20:00.238$  frontal along the trajectory
- NOTE Confidence: 0.95413063
- $00:20:00.440 \longrightarrow 00:20:02.040$  you see on the MRI.
- NOTE Confidence: 0.938185511666667
- $00{:}20{:}05{.}120 \dashrightarrow 00{:}20{:}08{.}480$  Access is from a scalp incision and a
- NOTE Confidence: 0.9381855116666667
- $00{:}20{:}08{.}480 \dashrightarrow 00{:}20{:}11{.}040$  hole in the skull called a Burr hole.
- NOTE Confidence: 0.938185511666667
- $00:20:11.040 \rightarrow 00:20:14.480$  In the lower frame you see the endoscope
- NOTE Confidence: 0.938185511666667
- $00{:}20{:}14.480 \dashrightarrow 00{:}20{:}17.720$  you will use on Peppers in January.
- NOTE Confidence: 0.938185511666667
- 00:20:17.720 --> 00:20:20.023 Are you ready? Watch out for the
- NOTE Confidence: 0.9381855116666667
- $00:20:20.023 \rightarrow 00:20:22.189$  basal artery and the big fat
- NOTE Confidence: 0.938185511666667
- $00:20:22.189 \longrightarrow 00:20:24.034$  veins on the appendable surface.
- NOTE Confidence: 0.938185511666667
- 00:20:24.040 --> 00:20:25.440 They can ruin your day.
- NOTE Confidence: 0.94484186
- $00{:}20{:}28{.}480 \dashrightarrow 00{:}20{:}31{.}864$  We are descending through a 6mm
- NOTE Confidence: 0.94484186
- $00{:}20{:}31.864 \dashrightarrow 00{:}20{:}34.920$  tube into the ventricular system.
- NOTE Confidence: 0.94484186

 $00:20:34.920 \rightarrow 00:20:37.760$  The septum pellucidum is waving on our left

NOTE Confidence: 0.729695095555556

 $00{:}20{:}43.520 \dashrightarrow 00{:}20{:}45.410$  and we follow the cori plexus

NOTE Confidence: 0.729695095555556

 $00:20:45.410 \longrightarrow 00:20:47.160$  to the frame of Monroe.

NOTE Confidence: 0.746810677142857

 $00:20:49.840 \longrightarrow 00:20:53.235$  Remember, the door frame is the fornix

NOTE Confidence: 0.918827735

 $00{:}21{:}05{.}480 \dashrightarrow 00{:}21{:}07{.}400$  as we enter the third ventricle.

NOTE Confidence: 0.918827735

00:21:07.400 --> 00:21:10.360 Orient yourself, mammary bodies,

NOTE Confidence: 0.6490041

00:21:12.600 --> 00:21:14.040 optic chiasm,

NOTE Confidence: 0.41999912

 $00:21:16.160 \longrightarrow 00:21:19.840$  infundibular recess. Walls

NOTE Confidence: 0.8910238275

 $00:21:19.840 \longrightarrow 00:21:21.000$  of the third ventricle

NOTE Confidence: 0.773623

 $00:21:21.960 \longrightarrow 00:21:25.080$  are the hypothalamus.

NOTE Confidence: 0.773623

 $00:21:25.080 \longrightarrow 00:21:27.440$  Now we're going to score the floor of

NOTE Confidence: 0.773623

 $00:21:27.440 \longrightarrow 00:21:29.796$  the third ventricle with a YAG laser.

NOTE Confidence: 0.773623

 $00:21:29.800 \longrightarrow 00:21:32.240$  The heat at the tip is very focal.

NOTE Confidence: 0.773623

 $00:21:32.240 \longrightarrow 00:21:35.440$  The laser tip is .8mm.

NOTE Confidence: 0.773623

 $00:21:35.440 \longrightarrow 00:21:37.198$  Notice how the floor of the

NOTE Confidence: 0.773623

 $00:21:37.198 \longrightarrow 00:21:38.077$  third ventricle shrinks.

- NOTE Confidence: 0.9412424746666667
- $00:21:40.680 \longrightarrow 00:21:42.498$  Now we need to perforate the
- NOTE Confidence: 0.9412424746666667
- $00:21:42.498 \longrightarrow 00:21:44.188$  floor of the third ventricle
- NOTE Confidence: 0.9412424746666667
- $00:21:44.188 \longrightarrow 00:21:45.836$  and widen the opening.
- NOTE Confidence: 0.9412424746666667
- $00{:}21{:}45{.}840 \dashrightarrow 00{:}21{:}49{.}638$  For this we're using steel forceps.
- NOTE Confidence: 0.9412424746666667
- $00:21:49.640 \longrightarrow 00:21:51.520$  The summit of the basilar
- NOTE Confidence: 0.941242474666667
- $00:21:51.520 \longrightarrow 00:21:53.400$  artery is just below us.
- NOTE Confidence: 0.890960875294118
- $00:21:58.580 \longrightarrow 00:22:00.624$  Now we need to look through our
- NOTE Confidence: 0.890960875294118
- $00:22:00.624 \rightarrow 00:22:02.611$  opening to make sure we are
- NOTE Confidence: 0.890960875294118
- 00:22:02.611 --> 00:22:03.999 in a subarachnoid location.
- NOTE Confidence: 0.890960875294118
- $00:22:04.000 \rightarrow 00:22:06.916$  The basal artery is very apparent.
- NOTE Confidence: 0.894090478
- $00:22:10.600 \longrightarrow 00:22:13.660$  We're done. This should treat the
- NOTE Confidence: 0.894090478
- 00:22:13.660 --> 00:22:15.999 hydrocephalus. Enjoy the course.
- NOTE Confidence: 0.881573889090909
- 00:22:19.760 --> 00:22:21.350 Some of you may recall trying
- NOTE Confidence: 0.881573889090909
- $00:22:21.350 \longrightarrow 00:22:22.920$  this out with the Peppers,
- NOTE Confidence: 0.850599135
- $00:22:26.720 \longrightarrow 00:22:27.836$  but how did we get there?
- NOTE Confidence: 0.7058759325

 $00:22:30.280 \longrightarrow 00:22:32.410$  The image in the upper left

NOTE Confidence: 0.7058759325

 $00{:}22{:}32{.}410 \dashrightarrow 00{:}22{:}36{.}280$  is A pediatric cystoscope.

NOTE Confidence: 0.7058759325

 $00:22:36.280 \longrightarrow 00:22:42.916$  The urologist would look at the

NOTE Confidence: 0.7058759325

 $00:22:42.916 \rightarrow 00:22:46.122$  bladder with the with their eye right

NOTE Confidence: 0.7058759325

 $00:22:46.122 \rightarrow 00:22:48.676$  right against that black eyepiece.

NOTE Confidence: 0.7058759325

 $00{:}22{:}48.676 \dashrightarrow 00{:}22{:}50.456$  Well, we tried that a

NOTE Confidence: 0.7058759325

 $00:22:50.456 \rightarrow 00:22:52.360$  couple of times with brain,

NOTE Confidence: 0.7058759325

 $00:22:52.360 \longrightarrow 00:22:57.976$  but it just gave us too much

NOTE Confidence: 0.7058759325

 $00:22:57.976 \longrightarrow 00:23:00.440$  risk for for sterility.

NOTE Confidence: 0.7058759325

 $00{:}23{:}00{.}440 \dashrightarrow 00{:}23{:}04{.}244$  Then along came the camera that

NOTE Confidence: 0.7058759325

 $00{:}23{:}04{.}244 \dashrightarrow 00{:}23{:}08{.}440$  would fit directly onto the scope

NOTE Confidence: 0.877804861428572

 $00{:}23{:}10.560 \dashrightarrow 00{:}23{:}14.537$  and the image On the right are some

NOTE Confidence: 0.877804861428572

 $00:23:14.537 \longrightarrow 00:23:18.704$  of our later in the scopes for the

NOTE Confidence: 0.877804861428572

 $00:23:18.704 \rightarrow 00:23:21.400$  third ventriculostomy for for example,

NOTE Confidence: 0.818348693

 $00{:}23{:}25{.}480 \dashrightarrow 00{:}23{:}27{.}160$  we didn't have any of this

NOTE Confidence: 0.818348693

 $00:23:27.160 \longrightarrow 00:23:28.280$  equipment in in neurosurgery.

 $00:23:28.280 \longrightarrow 00:23:29.880$  The urologist used it,

NOTE Confidence: 0.84778374375

 $00:23:34.520 \longrightarrow 00:23:38.011$  but it took a group of people to be

NOTE Confidence: 0.84778374375

 $00{:}23{:}38.011 \dashrightarrow 00{:}23{:}41.197$  able to bring this into neurosurgery.

NOTE Confidence: 0.84778374375

00:23:41.200 --> 00:23:44.110 Now it's commonplace, almost all

NOTE Confidence: 0.84778374375

 $00:23:44.110 \rightarrow 00:23:46.438$  operations are done laparoscopically,

NOTE Confidence: 0.84778374375

 $00:23:46.440 \longrightarrow 00:23:49.320$  endoscopically, but this,

NOTE Confidence: 0.84778374375

 $00{:}23{:}49{.}320 \dashrightarrow 00{:}23{:}54{.}664$  this was in many instances developed

NOTE Confidence: 0.84778374375

 $00:23:54.664 \rightarrow 00:24:00.840$  by a small Group, A small group here

NOTE Confidence: 0.84778374375

 $00:24:00.840 \longrightarrow 00:24:03.040$  in the left and then the blue jacket.

NOTE Confidence: 0.84778374375

00:24:03.040 --> 00:24:06.400 You see Ina Williams,

NOTE Confidence: 0.84778374375

00:24:06.400 --> 00:24:09.515 I couldn't find a photograph of Reuben

NOTE Confidence: 0.84778374375

00:24:09.515 --> 00:24:13.000 Pere<br/>a and there's Joe Warshaw who

NOTE Confidence: 0.84778374375

 $00{:}24{:}13.000 \dashrightarrow 00{:}24{:}15.275$  as Chair of Pediatrics at the time,

NOTE Confidence: 0.84778374375

00:24:15.280 --> 00:24:17.240 you might wonder his contribution

NOTE Confidence: 0.7240794

 $00{:}24{:}19{.}800 \dashrightarrow 00{:}24{:}25{.}565$  Mr. Pere<br/>a built an endoscope for us

 $00{:}24{:}25{.}565 \dashrightarrow 00{:}24{:}29{.}659$  or the the endoscope tower that held

NOTE Confidence: 0.7240794

 $00{:}24{:}29.659 \dashrightarrow 00{:}24{:}32.430$  all the electronics for materials

NOTE Confidence: 0.7240794

 $00{:}24{:}32{.}430 \dashrightarrow 00{:}24{:}36{.}108$  that were in the discard area in

NOTE Confidence: 0.7240794

 $00:24:36.108 \longrightarrow 00:24:40.356$  the lower levels of the hospital.

NOTE Confidence: 0.7240794

 $00{:}24{:}40{.}360 \dashrightarrow 00{:}24{:}44{.}315$  We we we still needed some funds

NOTE Confidence: 0.7240794

00:24:44.320 --> 00:24:46.756 and while there was some reluctance

NOTE Confidence: 0.7240794

 $00:24:46.756 \longrightarrow 00:24:48.869$  to provide funds for something

NOTE Confidence: 0.7240794

 $00:24:48.869 \rightarrow 00:24:52.160$  new like this in in neurosurgery,

NOTE Confidence: 0.7240794

00:24:52.160 --> 00:24:55.175 when this was I was borrowing

NOTE Confidence: 0.7240794

 $00:24:55.175 \rightarrow 00:24:56.475$  things from the urologist

NOTE Confidence: 0.704026465

 $00{:}24{:}58.640 \dashrightarrow 00{:}24{:}59.480$  Joe Warshaw

NOTE Confidence: 0.862852693333333

 $00{:}25{:}01{.}760 \dashrightarrow 00{:}25{:}07{.}600$  used to hold court in the in the hallways

NOTE Confidence: 0.862852693333333

 $00{:}25{:}07{.}600$  -->  $00{:}25{:}10{.}597$  asked me what I was doing what what were NOTE Confidence: 0.862852693333333

 $00:25:10.597 \rightarrow 00:25:14.117$  we accomplishing which was typical for him.

NOTE Confidence: 0.862852693333333

 $00{:}25{:}14{.}120 \dashrightarrow 00{:}25{:}17{.}225$  And I explained to him about how we were

NOTE Confidence: 0.862852693333333

00:25:17.225 --> 00:25:20.720 trying to bring endoscopy, ventriculoscopy

- NOTE Confidence: 0.883344524
- $00:25:23.000 \rightarrow 00:25:27.960$  into neurosurgery and he he Pediatrics

 $00{:}25{:}27{.}960 \dashrightarrow 00{:}25{:}30{.}120$  has never had that much money.

NOTE Confidence: 0.883344524

 $00:25:30.120 \longrightarrow 00:25:32.688$  He offered to to contribute for

NOTE Confidence: 0.883344524

 $00:25:32.688 \longrightarrow 00:25:35.121$  whatever it would take to make

NOTE Confidence: 0.883344524

 $00{:}25{:}35{.}121 \dashrightarrow 00{:}25{:}37{.}968$  this viable and available for

NOTE Confidence: 0.883344524

00:25:37.968 --> 00:25:41.320 kids in the Children's Hospital.

NOTE Confidence: 0.883344524

00:25:41.320 - > 00:25:43.496 Fortunately the hospital came

NOTE Confidence: 0.883344524

 $00{:}25{:}43.496 \dashrightarrow 00{:}25{:}46.038$  through on the right hand of Huggins.

NOTE Confidence: 0.883344524

 $00{:}25{:}46.040 \dashrightarrow 00{:}25{:}48.648$  Many of you have met when you've

NOTE Confidence: 0.883344524

 $00{:}25{:}48.648 \dashrightarrow 00{:}25{:}50.592$  worked with the Peppers has been

NOTE Confidence: 0.883344524

 $00:25:50.592 \rightarrow 00:25:53.300$  very instrumental in keeping this

NOTE Confidence: 0.883344524

 $00{:}25{:}53{.}300$  -->  $00{:}25{:}57{.}004$  effort ongoing and and Anna Williams NOTE Confidence: 0.883344524

 $00{:}25{:}57{.}004 \dashrightarrow 00{:}26{:}00{.}440$  who I wrote papers with when she was NOTE Confidence: 0.883344524

 $00:26:00.440 \longrightarrow 00:26:04.045$  a young nurse pictured in our our

NOTE Confidence: 0.883344524

 $00{:}26{:}04{.}045 \dashrightarrow 00{:}26{:}08{.}315$  scrubs is now the the the senior vice

 $00:26:08.315 \rightarrow 00:26:10.800$  president in nursing for the for our

NOTE Confidence: 0.883344524

 $00:26:10.800 \rightarrow 00:26:12.944$  institution and was very instrumental

NOTE Confidence: 0.883344524

 $00:26:12.944 \rightarrow 00:26:16.718$  in having the the hospital bring

NOTE Confidence: 0.883344524

 $00:26:16.718 \rightarrow 00:26:20.319$  bring this into forefront for us.

NOTE Confidence: 0.830731705555556

 $00:26:25.560 \rightarrow 00:26:28.245$  The endoscope really has revolutionized

NOTE Confidence: 0.830731705555556

 $00:26:28.245 \rightarrow 00:26:30.393$  the treatment of hydrocephalus.

NOTE Confidence: 0.830731705555556

 $00:26:30.400 \longrightarrow 00:26:34.168$  Before, we would treat children with

NOTE Confidence: 0.830731705555556

 $00:26:34.168 \rightarrow 00:26:38.436$  shunts and continue to in many instances.

NOTE Confidence: 0.830731705555556

 $00:26:38.440 \longrightarrow 00:26:42.318$  But shunts have a high infection rate.

NOTE Confidence: 0.830731705555556

 $00:26:42.320 \longrightarrow 00:26:46.960$  They aren't but so durable.

NOTE Confidence: 0.830731705555556

 $00{:}26{:}46.960 \dashrightarrow 00{:}26{:}50.325$  However, an endoscopic third ventriculostomy

NOTE Confidence: 0.830731705555556

 $00:26:50.325 \rightarrow 00:26:55.476$  has a high high rate of success.

NOTE Confidence: 0.830731705555556

00:26:55.480 --> 00:27:00.080 However, if we think back about Doctor Drake,

NOTE Confidence: 0.830731705555556

 $00:27:00.080 \longrightarrow 00:27:02.156$  it may seem safe to say,

NOTE Confidence: 0.830731705555556

 $00:27:02.160 \longrightarrow 00:27:06.560$  oh, point 4% have a serious

NOTE Confidence: 0.830731705555556

00:27:06.560 - 00:27:07.720 intracerebral hemorrhage.

- NOTE Confidence: 0.830731705555556
- $00:27:07.720 \longrightarrow 00:27:09.532$  That means that every couple of
- NOTE Confidence: 0.830731705555556
- $00:27:09.532 \longrightarrow 00:27:10.960$  years somebody's going to have
- NOTE Confidence: 0.830731705555556
- $00:27:10.960 \longrightarrow 00:27:12.990$  a severe injury from us just
- NOTE Confidence: 0.830731705555556
- $00:27:12.990 \longrightarrow 00:27:15.360$  passing that tube in their brain.
- NOTE Confidence: 0.92513527
- 00:27:17.520 --> 00:27:19.635 I don't. I don't know how to eliminate that.
- NOTE Confidence: 0.966019224
- 00:27:24.280 --> 00:27:27.720 I've been very fortunate to be involved
- NOTE Confidence: 0.966019224
- $00{:}27{:}27{.}720 \dashrightarrow 00{:}27{:}32{.}026$  in a number of investigative and research
- NOTE Confidence: 0.966019224
- $00:27:32.026 \rightarrow 00:27:36.478$  projects through my through my time.
- NOTE Confidence: 0.966019224
- $00:27:36.480 \longrightarrow 00:27:40.680$  Once once a week for about 5 years,
- NOTE Confidence: 0.966019224
- 00:27:40.680 --> 00:27:44.215 I I commuted to Brookhaven
- NOTE Confidence: 0.966019224
- 00:27:44.215 --> 00:27:46.475 National Laboratory to work
- NOTE Confidence: 0.966019224
- $00:27:46.475 \longrightarrow 00:27:49.800$  on positron emitting tracers.
- NOTE Confidence: 0.966019224
- $00:27:49.800 \longrightarrow 00:27:52.068$  This is during the time of the
- NOTE Confidence: 0.966019224
- $00:27:52.068 \rightarrow 00:27:54.680$  development of auto antipyrine
- NOTE Confidence: 0.966019224
- $00{:}27{:}54.680 \dashrightarrow 00{:}27{:}57.520$  and fluorodeoxy glucose for
- NOTE Confidence: 0.77593008

 $00:28:00.240 \rightarrow 00:28:02.685$  positron emission tomography.

NOTE Confidence: 0.77593008

 $00:28:02.685 \longrightarrow 00:28:05.945$  Now they're far more

NOTE Confidence: 0.77593008

 $00{:}28{:}05{.}945 \dashrightarrow 00{:}28{:}08{.}198$  complex emitters available.

NOTE Confidence: 0.77593008

 $00{:}28{:}08.198 \dashrightarrow 00{:}28{:}13.231$  I worked on the DRG Revision project

NOTE Confidence: 0.77593008

 $00:28:13.231 \longrightarrow 00:28:16.004$  at the School of Management. Dr.

NOTE Confidence: 0.77593008

 $00{:}28{:}16.004 \dashrightarrow 00{:}28{:}18.720$  GS are the way hospitals are paid

NOTE Confidence: 0.780272419230769

 $00:28:20.960 \longrightarrow 00:28:24.440$  and I managed to be a bit player

NOTE Confidence: 0.780272419230769

 $00:28:24.440 \longrightarrow 00:28:27.998$  in the IBH prevention studies.

NOTE Confidence: 0.909828020909091

00:28:30.400 --> 00:28:33.142 The big question was how does

NOTE Confidence: 0.909828020909091

 $00:28:33.142 \longrightarrow 00:28:35.640$  developing brain adapt to injury.

NOTE Confidence: 0.909828020909091

 $00{:}28{:}35{.}640 \dashrightarrow 00{:}28{:}38{.}720$  Doctor Mint let let all of these

NOTE Confidence: 0.909828020909091

 $00:28:38.720 \longrightarrow 00:28:41.400$  projects in here photographed or some

NOTE Confidence: 0.909828020909091

 $00:28:41.400 \rightarrow 00:28:46.208$  of the the key people who were involved.

NOTE Confidence: 0.909828020909091

00:28:46.208 --> 00:28:50.640 Doctor Mint, Doctor Stewart, Dolores Montoya.

NOTE Confidence: 0.805045151428571

 $00:28:53.200 \rightarrow 00:28:57.477$  There there many talents around this place.

NOTE Confidence: 0.805045151428571

 $00:28:57.480 \longrightarrow 00:29:01.519$  Dolores Montoya was one of the great

- NOTE Confidence: 0.805045151428571
- 00:29:01.520 --> 00:29:05.520 masters in small animal surgery.
- NOTE Confidence: 0.805045151428571
- $00{:}29{:}05{.}520 \dashrightarrow 00{:}29{:}10{.}486$  We see Doctor Mint with some of her staff.
- NOTE Confidence: 0.805045151428571
- $00{:}29{:}10{.}486 \dashrightarrow 00{:}29{:}13{.}116$  Carol Katz who did Biostatistics.
- NOTE Confidence: 0.805045151428571
- 00:29:13.120 --> 00:29:13.910 Karen Schneider,
- NOTE Confidence: 0.805045151428571
- $00:29:13.910 \longrightarrow 00:29:16.886$  who was really the major domo through
- NOTE Confidence: 0.805045151428571
- 00:29:16.886 --> 00:29:19.916 many projects and more janely,
- NOTE Confidence: 0.805045151428571
- $00:29:19.920 \longrightarrow 00:29:25.438$  who incredibly kept patients
- NOTE Confidence: 0.805045151428571
- $00:29:25.440 \rightarrow 00:29:28.440$  involved in our studies for years.
- NOTE Confidence: 0.965018854
- $00:29:36.160 \longrightarrow 00:29:37.400$  So how did this happen?
- NOTE Confidence: 0.93406886
- $00:29:39.840 \rightarrow 00:29:40.520$  We
- NOTE Confidence: 0.921599669
- $00{:}29{:}42.800 \dashrightarrow 00{:}29{:}46.544$  I went, I went to a meeting in Saint
- NOTE Confidence: 0.921599669
- 00:29:46.544 --> 00:29:49.156 Louis the cerebral brain metabolism
- NOTE Confidence: 0.921599669
- $00{:}29{:}49{.}156 \dashrightarrow 00{:}29{:}51{.}901$  cerebral blood flow and metabolism
- NOTE Confidence: 0.921599669
- 00:29:51.901 --> 00:29:54.832 meeting and there was a a short talk
- NOTE Confidence: 0.921599669
- $00{:}29{:}54.832 \dashrightarrow 00{:}29{:}58.246$  about maybe in the in the methicine is NOTE Confidence: 0.921599669

 $00:29:58.246 \rightarrow 00:30:01.876$  influential to developing blood vessels.

NOTE Confidence: 0.921599669

00:30:01.880 --> 00:30:03.476 As Doctor Min and I spoke,

NOTE Confidence: 0.921599669

 $00:30:03.480 \longrightarrow 00:30:07.834$  we thought about how how this might

NOTE Confidence: 0.921599669

00:30:07.840 --> 00:30:10.948 translate into something useful for babies

NOTE Confidence: 0.921599669

 $00{:}30{:}10{.}948 \dashrightarrow 00{:}30{:}14{.}400$  and the methic ine was already used for

NOTE Confidence: 0.921599669

 $00{:}30{:}14.400 \dashrightarrow 00{:}30{:}18.504$  for treating a patent ductus arteriosus.

NOTE Confidence: 0.921599669

00:30:18.504 --> 00:30:21.240 So how do you bring something

NOTE Confidence: 0.921599669

 $00:30:21.240 \longrightarrow 00:30:24.516$  that's an idea into the clinic?

NOTE Confidence: 0.921599669

 $00{:}30{:}24{.}520 \dashrightarrow 00{:}30{:}27{.}958$  This meant developing an animal model.

NOTE Confidence: 0.921599669

 $00{:}30{:}27{.}960 \dashrightarrow 00{:}30{:}31{.}302$  This meant thinking about what influences

NOTE Confidence: 0.921599669

 $00{:}30{:}31{.}302 \dashrightarrow 00{:}30{:}34{.}520$  and finding out what influences

NOTE Confidence: 0.832368718

 $00{:}30{:}36{.}640 \dashrightarrow 00{:}30{:}41{.}430$  in the medicine might have on new borns,

NOTE Confidence: 0.832368718

 $00{:}30{:}41{.}430 \dashrightarrow 00{:}30{:}47{.}448$  on preemies and when when did infants,

NOTE Confidence: 0.832368718

 $00:30:47.448 \rightarrow 00:30:49.560$  premature infants actually have

NOTE Confidence: 0.47309327

 $00:30:52.320 \longrightarrow 00:30:53.800$  intravent ricular hemorrhage.

NOTE Confidence: 0.880895302857143

 $00:31:00.840 \rightarrow 00:31:05.355$  We we carried out studies to show

- NOTE Confidence: 0.880895302857143
- $00:31:05.360 \dashrightarrow 00:31:07.985$  that in the methicine prevented
- NOTE Confidence: 0.880895302857143
- $00:31:07.985 \longrightarrow 00:31:10.959$  hemorrhage in a large proportion of
- NOTE Confidence: 0.880895302857143
- $00{:}31{:}10.959 \dashrightarrow 00{:}31{:}13.630$  the of the and of the animal models
- NOTE Confidence: 0.880895302857143
- $00:31:13.630 \longrightarrow 00:31:17.013$  and compare it to the thameslate and
- NOTE Confidence: 0.880895302857143
- $00{:}31{:}17.013 \dashrightarrow 00{:}31{:}20.332$  superoxide dismutase as well as in
- NOTE Confidence: 0.880895302857143
- $00:31:20.332 \dashrightarrow 00:31:24.440$  the methicine in the in the nursery.
- NOTE Confidence: 0.880895302857143
- $00:31:24.440 \rightarrow 00:31:28.033$  With Bob Lang we were able to determine
- NOTE Confidence: 0.880895302857143
- $00:31:28.033 \rightarrow 00:31:30.398$  cerebral blood flow changes through
- NOTE Confidence: 0.880895302857143
- $00{:}31{:}30{.}398 \dashrightarrow 00{:}31{:}32{.}840$  stable xenon studies in infants
- NOTE Confidence: 0.939768800909091
- 00:31:35.480 --> 00:31:38.340 and timing of hemorrhage which
- NOTE Confidence: 0.939768800909091
- $00:31:38.340 \longrightarrow 00:31:41.800$  occurred in the first three days.
- NOTE Confidence: 0.939768800909091
- $00:31:41.800 \rightarrow 00:31:46.620$  This meant that a large number of people
- NOTE Confidence: 0.939768800909091
- $00:31:46.620 \longrightarrow 00:31:50.280$  were involved to from the nursery,
- NOTE Confidence: 0.939768800909091
- $00{:}31{:}50{.}280 \dashrightarrow 00{:}31{:}52{.}680$  from ultrasound technicians,
- NOTE Confidence: 0.939768800909091
- $00{:}31{:}52.680 \dashrightarrow 00{:}31{:}56.760$  we Doctor Mint organized that.
- NOTE Confidence: 0.939768800909091

 $00:31:56.760 \longrightarrow 00:31:59.628$  Babies would have ultrasounds every six

NOTE Confidence: 0.939768800909091

 $00:31:59.628 \rightarrow 00:32:03.157$  hours for the first three days of life.

NOTE Confidence: 0.939768800909091

 $00:32:03.160 \rightarrow 00:32:04.800$  This meant consenting the parents,

NOTE Confidence: 0.939768800909091

 $00:32:04.800 \longrightarrow 00:32:07.266$  making sure that what we were

NOTE Confidence: 0.939768800909091

00:32:07.266 --> 00:32:10.920 doing was acceptable to the IRB,

NOTE Confidence: 0.939768800909091

 $00{:}32{:}10{.}920 \dashrightarrow 00{:}32{:}12{.}612$  to the nursery,

NOTE Confidence: 0.939768800909091

 $00{:}32{:}12.612 \dashrightarrow 00{:}32{:}16.560$  and as as well as to ourselves.

NOTE Confidence: 0.939768800909091

 $00:32:16.560 \rightarrow 00:32:20.057$  This ultimately led to a multicentermer

NOTE Confidence: 0.939768800909091

 $00{:}32{:}20.057 \dashrightarrow 00{:}32{:}24.142$  randomized trial that showed the

NOTE Confidence: 0.939768800909091

 $00{:}32{:}24.142 \dashrightarrow 00{:}32{:}28.630$  advantage in these and with the help

NOTE Confidence: 0.939768800909091

 $00:32:28.630 \rightarrow 00:32:35.200$  of the the people I'd shown earlier,

NOTE Confidence: 0.939768800909091

 $00:32:35.200 \longrightarrow 00:32:37.990$  we were able to follow these

NOTE Confidence: 0.939768800909091

 $00:32:37.990 \dashrightarrow 00:32:40.040$  children into young adulthood.

NOTE Confidence: 0.905385441818182

 $00{:}32{:}42.160 \dashrightarrow 00{:}32{:}47.137$  And while many drugs we we read about are

NOTE Confidence: 0.905385441818182

 $00:32:47.137 \rightarrow 00:32:49.720$  extraordinarily expensive, for example, the

NOTE Confidence: 0.695861214

 $00:32:51.800 \rightarrow 00:32:56.060$  drug Surfanta to help mature preemies

 $00{:}32{:}56{.}060 \dashrightarrow 00{:}33{:}00{.}286$  lungs is over 1000 a dose and

NOTE Confidence: 0.695861214

 $00{:}33{:}00{.}286 \dashrightarrow 00{:}33{:}02{.}516$  the medicine remained dirt cheap,

NOTE Confidence: 0.695861214

 $00:33:02.520 \longrightarrow 00:33:06.916$  about 1000, about a dollar per dose.

NOTE Confidence: 0.695861214

 $00:33:06.920 \rightarrow 00:33:11.132$  So it was usable by any country that could

NOTE Confidence: 0.695861214

 $00:33:11.132 \longrightarrow 00:33:15.960$  actually maintain premature infants.

NOTE Confidence: 0.8897984

00:33:19.760 --> 00:33:23.710 Well, what I didn't know or

NOTE Confidence: 0.8897984

 $00:33:23.710 \longrightarrow 00:33:25.860$  hadn't thought about was that

NOTE Confidence: 0.8897984

 $00{:}33{:}25{.}946 \dashrightarrow 00{:}33{:}28{.}557$  surgery has a time stamp on it.

NOTE Confidence: 0.8897984

 $00{:}33{:}28{.}560 \dashrightarrow 00{:}33{:}32{.}320$  So after a lot of cases and a lot of

NOTE Confidence: 0.8897984

 $00{:}33{:}32{.}426 \dashrightarrow 00{:}33{:}36{.}552$  brain tumors and and leading this

NOTE Confidence: 0.8897984

 $00:33:36.552 \rightarrow 00:33:39.424$  leading pediatric neurosurgery and

NOTE Confidence: 0.8897984

 $00{:}33{:}39{.}424 \dashrightarrow 00{:}33{:}43{.}638$  the residency for quite a while,

NOTE Confidence: 0.8897984

 $00{:}33{:}43.640 \dashrightarrow 00{:}33{:}47.438$  the time came to change direction.

NOTE Confidence: 0.8897984

 $00{:}33{:}47{.}440 \dashrightarrow 00{:}33{:}50{.}275$  You may or may not want an old president,

NOTE Confidence: 0.8897984

 $00{:}33{:}50{.}280 \dashrightarrow 00{:}33{:}52{.}704$  but I don't think anyone wants

 $00:33:52.704 \rightarrow 00:33:54.320$  wants an old surgeon.

NOTE Confidence: 0.836173211818182

00:33:56.600 -> 00:33:59.795 Fortunately, we have a an

NOTE Confidence: 0.836173211818182

 $00:33:59.795 \longrightarrow 00:34:02.990$  institution that has such such

NOTE Confidence: 0.836173211818182

 $00:34:03.109 \rightarrow 00:34:04.544$  depth that there are many,

NOTE Confidence: 0.836173211818182

 $00{:}34{:}04{.}544 \dashrightarrow 00{:}34{:}05{.}840$  many things for us to do.

NOTE Confidence: 0.836173211818182

 $00:34:05.840 \longrightarrow 00:34:10.800$  I mean the residency program,

NOTE Confidence: 0.836173211818182

00:34:10.800 --> 00:34:12.400 teaching, neurobiology,

NOTE Confidence: 0.859078428571429

 $00:34:14.960 \rightarrow 00:34:15.976$  professional responsibility,

NOTE Confidence: 0.859078428571429

 $00:34:15.976 \longrightarrow 00:34:18.516$  ILCE for a few years.

NOTE Confidence: 0.859078428571429

 $00:34:18.520 \longrightarrow 00:34:20.260$  That's the bottom left with

NOTE Confidence: 0.859078428571429

00:34:20.260 --> 00:34:22.000 Linda Honan and the group,

NOTE Confidence: 0.859078428571429

 $00:34:22.000 \longrightarrow 00:34:24.040$  and now most of you have

NOTE Confidence: 0.859078428571429

 $00:34:24.040 \rightarrow 00:34:27.360$  seen me through anatomy.

NOTE Confidence: 0.918485608888889

 $00:34:31.760 \longrightarrow 00:34:34.490$  As we looked at anatomy

NOTE Confidence: 0.918485608888889

 $00:34:34.490 \longrightarrow 00:34:36.674$  and how times changed,

NOTE Confidence: 0.918485608888889

 $00:34:36.680 \longrightarrow 00:34:39.248$  we developed what we call the

- NOTE Confidence: 0.918485608888889
- 00:34:39.248 --> 00:34:40.960 Human Anatomy Video Project.
- NOTE Confidence: 0.918485608888889
- 00:34:40.960 --> 00:34:42.478 In the top left you see
- NOTE Confidence: 0.52797304
- 00:34:44.760 --> 00:34:49.008 Doctor Kapadia, who is now retired.
- NOTE Confidence: 0.52797304
- $00:34:49.008 \rightarrow 00:34:52.548$  In the lower left you see Levi Squire,
- NOTE Confidence: 0.52797304
- $00{:}34{:}52{.}548 \dashrightarrow 00{:}34{:}54{.}918$  who's kindly letting us paint,
- NOTE Confidence: 0.52797304
- $00:34:54.920 \longrightarrow 00:34:59.040$  paint his chest for surface landmarks.
- NOTE Confidence: 0.52797304
- $00:34:59.040 \longrightarrow 00:35:03.680$  We we embarked on a project
- NOTE Confidence: 0.52797304
- $00:35:03.680 \longrightarrow 00:35:07.000$  to video record and video
- NOTE Confidence: 0.52797304
- $00:35:07.000 \longrightarrow 00:35:09.440$  the whole dissection cycle.
- NOTE Confidence: 0.52797304
- $00:35:09.440 \longrightarrow 00:35:12.000$  This took us two years.
- NOTE Confidence: 0.52797304
- $00:35:12.000 \rightarrow 00:35:16.440$  You see in the right frame,
- NOTE Confidence: 0.52797304
- $00:35:16.440 \longrightarrow 00:35:17.984$  Doctor Capatia with the
- NOTE Confidence: 0.52797304
- $00:35:17.984 \rightarrow 00:35:19.914$  with the camera in place,
- NOTE Confidence: 0.9761636666666667
- $00{:}35{:}23.280 \dashrightarrow 00{:}35{:}27.520$  we had a lot of help and a lot
- NOTE Confidence: 0.9761636666666667
- $00:35:27.520 \longrightarrow 00:35:31.360$  of funding to make this happen.
- NOTE Confidence: 0.9761636666666667

 $00:35:31.360 \rightarrow 00:35:32.920$  And many of these names,

NOTE Confidence: 0.9761636666666667

00:35:32.920 --> 00:35:36.408 you know, Lei Wang and Kelly

NOTE Confidence: 0.9761636666666667

00:35:36.408 --> 00:35:37.918 Perry are from the library.

NOTE Confidence: 0.9761636666666667

 $00:35:37.920 \longrightarrow 00:35:40.704$  We had two librarians for the

NOTE Confidence: 0.9761636666666667

 $00:35:40.704 \longrightarrow 00:35:43.286$  first year of the the project.

NOTE Confidence: 0.9761636666666667

00:35:43.286 --> 00:35:45.464 Ray Hill, who you may or

NOTE Confidence: 0.9761636666666667

 $00:35:45.464 \longrightarrow 00:35:47.399$  may not have ever met,

NOTE Confidence: 0.9761636666666667

 $00:35:47.400 \longrightarrow 00:35:49.344$  is responsible for the

NOTE Confidence: 0.9761636666666667

00:35:49.344 --> 00:35:52.200 Guided Anatomy website.

NOTE Confidence: 0.9761636666666667

 $00:35:52.200 \rightarrow 00:35:54.960$  But the the Caplow family,

NOTE Confidence: 0.9761636666666667

00:35:54.960 --> 00:35:56.118 the Rossetti family

NOTE Confidence: 0.59902114

 $00:35:58.360 \rightarrow 00:36:02.280$  provided almost all the funding

NOTE Confidence: 0.59902114

 $00{:}36{:}02{.}280 \dashrightarrow 00{:}36{:}05{.}931$  with some help from the Office of

NOTE Confidence: 0.59902114

 $00:36:05.931 \dashrightarrow 00:36:08.913$  Education in the Poor View Center.

NOTE Confidence: 0.59902114

 $00{:}36{:}08{.}920 \dashrightarrow 00{:}36{:}10{.}840$  We weren't the first ones to do this.

NOTE Confidence: 0.74380657

00:36:21.520 --> 00:36:22.399 In part A

 $00:36:22.640 \rightarrow 00:36:25.440$  of the section #4, the anterior thoracic wall

NOTE Confidence: 0.863731185

 $00:36:25.440 \longrightarrow 00:36:26.760$  is reflected and bound

NOTE Confidence: 0.9713659375

 $00:36:26.760 \longrightarrow 00:36:29.760$  down to the head. This allows

NOTE Confidence: 0.884086768571429

 $00:36:29.840 \longrightarrow 00:36:31.004$  a complete study.

NOTE Confidence: 0.884086768571429

 $00:36:31.004 \rightarrow 00:36:32.556$  The internal thoracic vessels,

NOTE Confidence: 0.884086768571429

 $00:36:32.560 \rightarrow 00:36:35.079$  the artery arising from the subclavian

NOTE Confidence: 0.884086768571429

 $00:36:35.080 \rightarrow 00:36:37.660$  and the venicomatons draining

NOTE Confidence: 0.884086768571429

 $00{:}36{:}37.660 \dashrightarrow 00{:}36{:}40.800$  into the brachiocephalic anterior

NOTE Confidence: 0.884086768571429

 $00:36:40.800 \longrightarrow 00:36:43.359$  intercostal branches should be exposed

NOTE Confidence: 0.884086768571429

 $00:36:43.360 \rightarrow 00:36:46.480$  as well as parasternal lymph nodes.

NOTE Confidence: 0.884086768571429

 $00{:}36{:}46{.}480 \dashrightarrow 00{:}36{:}48{.}270$  And the transverse as thorsis muscle

NOTE Confidence: 0.884086768571429

 $00{:}36{:}48{.}270 \dashrightarrow 00{:}36{:}50{.}800$  is to be slit and reflected to

NOTE Confidence: 0.884086768571429

 $00{:}36{:}50{.}800 \dashrightarrow 00{:}36{:}55{.}220$  show how the vessels pass to the

NOTE Confidence: 0.884086768571429

 $00:36:55.220 \rightarrow 00:36:57.960$  abdomen and they change. A view

NOTE Confidence: 0.7511009125

 $00:36:59.080 \longrightarrow 00:37:00.240$  will show a reflection

 $00:37:00.240 \longrightarrow 00:37:02.146$  of the cost of margin where the

NOTE Confidence: 0.77642872

 $00{:}37{:}02.146 \dashrightarrow 00{:}37{:}04.080$  vessels internal thoracic vessels

NOTE Confidence: 0.77642872

 $00{:}37{:}04.080 \dashrightarrow 00{:}37{:}05.880$  terminate as a lateral branch,

NOTE Confidence: 0.712326

 $00{:}37{:}05{.}880 \dashrightarrow 00{:}37{:}07{.}500$  they're reflecting the

NOTE Confidence: 0.712326

 $00{:}37{:}07{.}500 \dashrightarrow 00{:}37{:}09{.}120$  transversus thoracis muscle,

NOTE Confidence: 0.712326

 $00:37:09.120 \longrightarrow 00:37:10.120$  they're the lateral branch.

NOTE Confidence: 0.712326

 $00{:}37{:}10{.}120 \dashrightarrow 00{:}37{:}11{.}744$  The musculophrenic going along

NOTE Confidence: 0.712326

 $00:37:11.744 \longrightarrow 00:37:12.800$  with the diaphragm attaches

NOTE Confidence: 0.712326

 $00{:}37{:}12.800 \dashrightarrow 00{:}37{:}15.215$  to the cost of margin and

NOTE Confidence: 0.712326

 $00:37:15.215 \dashrightarrow 00:37:17.355$  they're the superior epigastric

NOTE Confidence: 0.712326

 $00:37:17.355 \dashrightarrow 00:37:20.000$  passing into the rectus sheath.

NOTE Confidence: 0.8019983375

 $00:37:21.720 \longrightarrow 00:37:23.800$  Now if you'll just help hold that down.

NOTE Confidence: 0.96925955

 $00{:}37{:}25.720 \dashrightarrow 00{:}37{:}27.020$  That's right. Put it in.

NOTE Confidence: 0.96925955

 $00:37:27.020 \longrightarrow 00:37:29.078$  That's a good boy. Thank you.

NOTE Confidence: 0.53740911

 $00:37:31.760 \longrightarrow 00:37:36.240$  Doctor Creeland would would probably need

NOTE Confidence: 0.53740911

 $00:37:36.240 \rightarrow 00:37:39.988$  to revise some of his language today.

- NOTE Confidence: 0.53740911
- $00:37:39.988 \longrightarrow 00:37:42.358$  This was recorded in pneumatic

 $00{:}37{:}42{.}358 \dashrightarrow 00{:}37{:}45{.}064$  and we thought that the all

NOTE Confidence: 0.53740911

 $00:37:45.064 \rightarrow 00:37:47.760$  these video tapes had been lost,

NOTE Confidence: 0.53740911

00:37:47.760 - 00:37:51.183 but we were able to recover them, find.

NOTE Confidence: 0.53740911

 $00{:}37{:}51{.}183 \dashrightarrow 00{:}37{:}54{.}970$  We found a company in Pennsylvania that

NOTE Confidence: 0.53740911

 $00{:}37{:}55.066 \dashrightarrow 00{:}37{:}58.386$  was able to digitize them for us and

NOTE Confidence: 0.53740911

 $00:37:58.386 \rightarrow 00:38:01.152$  now they're in the library archive.

NOTE Confidence: 0.53740911

00:38:01.152 --> 00:38:03.816 Back in Doctor Creelin's time,

NOTE Confidence: 0.53740911

 $00{:}38{:}03{.}816 \dashrightarrow 00{:}38{:}05{.}832$  he was the predecessor to Doctor Stewart.

NOTE Confidence: 0.94749255625

 $00{:}38{:}08{.}760 \dashrightarrow 00{:}38{:}10{.}880$  All the students would sit and watch these

NOTE Confidence: 0.82640575

 $00{:}38{:}13.040 \dashrightarrow 00{:}38{:}16.622$  small televisions. You'll notice

NOTE Confidence: 0.82640575

 $00:38:16.622 \rightarrow 00:38:19.077$  that he wasn't wearing gloves.

NOTE Confidence: 0.82640575

 $00{:}38{:}19{.}080 \dashrightarrow 00{:}38{:}21{.}544$  I think that we're all a lot happier

NOTE Confidence: 0.82640575

 $00:38:21.544 \longrightarrow 00:38:24.240$  that we have nitrile gloves. For us.

NOTE Confidence: 0.948640858333333

 $00:38:27.440 \longrightarrow 00:38:30.560$  We we started with the videos,

00:38:30.560 - 00:38:32.388 putting them on panopto,

NOTE Confidence: 0.948640858333333

 $00{:}38{:}32{.}388 \dashrightarrow 00{:}38{:}36{.}480$  and then moved to a series of iBooks.

NOTE Confidence: 0.948640858333333

00:38:36.480 --> 00:38:42.238 Apple and its wisdom or finance

NOTE Confidence: 0.948640858333333

 $00:38:42.240 \longrightarrow 00:38:43.878$  did not support these so much.

NOTE Confidence: 0.948640858333333

 $00{:}38{:}43.880 \dashrightarrow 00{:}38{:}45.080$  And then we moved to

NOTE Confidence: 0.837476385789473

 $00{:}38{:}47.720 \dashrightarrow 00{:}38{:}50.051$  guided anatomy and and I I think

NOTE Confidence: 0.837476385789473

 $00{:}38{:}50{.}051 \dashrightarrow 00{:}38{:}52{.}310$  this has been the the most

NOTE Confidence: 0.837476385789473

 $00{:}38{:}52{.}310 \dashrightarrow 00{:}38{:}54{.}674$  successful and the most flexible for

NOTE Confidence: 0.912401501111111

 $00{:}38{:}57{.}160 \dashrightarrow 00{:}38{:}59{.}824$  as a primary resource.

NOTE Confidence: 0.912401501111111

 $00:38:59.824 \rightarrow 00:39:03.154$  We also have Coursera courses,

NOTE Confidence: 0.912401501111111

 $00{:}39{:}03{.}160 \dashrightarrow 00{:}39{:}04{.}920$  we have several Coursera courses.

NOTE Confidence: 0.912401501111111

 $00:39:04.920 \longrightarrow 00:39:06.915$  This is the one on the trunk.

NOTE Confidence: 0.912401501111111

 $00:39:06.920 \longrightarrow 00:39:11.720$  Overall, we have approximately 135,000

NOTE Confidence: 0.912401501111111

 $00:39:11.720 \rightarrow 00:39:14.879$  learners through through Coursera.

NOTE Confidence: 0.841199822592593

 $00{:}39{:}20.160 \dashrightarrow 00{:}39{:}21.592$  There there is life.

NOTE Confidence: 0.841199822592593

 $00:39:21.592 \rightarrow 00:39:24.680$  I I will tell you if the the

- NOTE Confidence: 0.841199822592593
- $00:39:24.680 \longrightarrow 00:39:26.820$  bottom left has circles around
- NOTE Confidence: 0.841199822592593
- $00:39:26.820 \longrightarrow 00:39:29.323$  our our children and then you
- NOTE Confidence: 0.841199822592593
- $00:39:29.323 \longrightarrow 00:39:31.114$  see them at different points,
- NOTE Confidence: 0.841199822592593
- $00:39:31.114 \longrightarrow 00:39:33.580$  on on the right of the left is a
- NOTE Confidence: 0.841199822592593
- $00{:}39{:}33.657 \dashrightarrow 00{:}39{:}36.193$  school that a number of them went to.
- NOTE Confidence: 0.841199822592593
- 00:39:36.200 --> 00:39:39.800 I must tell you, going back to Doctor Drake,
- NOTE Confidence: 0.841199822592593
- 00:39:39.800 > 00:39:42.398 that there was only one occasion
- NOTE Confidence: 0.841199822592593
- $00:39:42.400 \longrightarrow 00:39:44.560$  that I brought them to school
- NOTE Confidence: 0.841199822592593
- $00{:}39{:}44{.}560 \dashrightarrow 00{:}39{:}46{.}360$  one morning and left them
- NOTE Confidence: 0.9747147166666667
- $00:39:48.520 \longrightarrow 00:39:52.068$  to find out later that
- NOTE Confidence: 0.9747147166666667
- $00:39:52.068 \rightarrow 00:39:54.838$  school was closed that day.
- NOTE Confidence: 0.9747147166666667
- 00:39:54.840 --> 00:39:57.964 Fortunately their grandparents lived
- NOTE Confidence: 0.9747147166666667
- $00{:}39{:}57{.}964 \dashrightarrow 00{:}40{:}00{.}474$  a short walking distance away.
- NOTE Confidence: 0.9344720125
- $00:40:03.040 \rightarrow 00:40:06.400$  I was sent out with the kids periodically.
- NOTE Confidence: 0.9344720125
- $00{:}40{:}06{.}400 \dashrightarrow 00{:}40{:}08{.}864$  The bottom left is what we would call
- NOTE Confidence: 0.9344720125

 $00:40:08.864 \rightarrow 00:40:10.999$  the cousins camping trip the other.

NOTE Confidence: 0.9344720125

00:40:11.000 --> 00:40:16.760 People in the photograph or are a

NOTE Confidence: 0.9344720125

 $00{:}40{:}16.760 \dashrightarrow 00{:}40{:}19.728$  large cadre of their of their cousins,

NOTE Confidence: 0.9344720125

 $00:40:19.728 \rightarrow 00:40:21.800$  and this is in the White Mountains.

NOTE Confidence: 0.9344720125

00:40:21.800 --> 00:40:24.728 But I was periodically sent

NOTE Confidence: 0.9344720125

 $00{:}40{:}24.728 \dashrightarrow 00{:}40{:}27.680$  out with the with the kids.

NOTE Confidence: 0.961451116

 $00:40:30.200 \rightarrow 00:40:31.901$  Some people in the household thought I

NOTE Confidence: 0.961451116

 $00:40:31.901 \rightarrow 00:40:33.920$  spent too much time in the operating room.

NOTE Confidence: 0.969183528888889

00:40:39.210 --> 00:40:42.594 You know, life around here tends to be hard,

NOTE Confidence: 0.969183528888889

00:40:42.600 --> 00:40:45.560 fast, and unforgiving, Unforgiving.

NOTE Confidence: 0.286091365

00:40:49.080 --> 00:40:53.564 Claire Forscolo, I'm sure most of

NOTE Confidence: 0.286091365

00:40:53.564 --> 00:40:55.319 you know about Claire's cornucopia,

NOTE Confidence: 0.286091365

 $00{:}40{:}55{.}320 \dashrightarrow 00{:}40{:}59{.}060$  but she's the she's the lady who

NOTE Confidence: 0.286091365

 $00:40:59.060 \longrightarrow 00:41:01.680$  started that business in the mid 70s.

NOTE Confidence: 0.286091365

 $00:41:01.680 \rightarrow 00:41:04.080$  She was a nurse or she still is a nurse,

NOTE Confidence: 0.286091365

 $00:41:04.080 \longrightarrow 00:41:07.820$  but that's her business and

- NOTE Confidence: 0.286091365
- $00:41:07.820 \longrightarrow 00:41:10.960$  this is this is her new cup.
- NOTE Confidence: 0.286091365
- $00{:}41{:}10.960 \dashrightarrow 00{:}41{:}16.188$  She told me last week that a philosophy
- NOTE Confidence: 0.286091365
- $00{:}41{:}16.188 \dashrightarrow 00{:}41{:}19.612$  professor came in and said that he had
- NOTE Confidence: 0.286091365
- $00:41:19.612 \rightarrow 00:41:23.120$  used an image of her cup in his lecture,
- NOTE Confidence: 0.286091365
- $00:41:23.120 \longrightarrow 00:41:26.560$  so I thought I'd do that as well.
- NOTE Confidence: 0.286091365
- $00{:}41{:}26.560 \dashrightarrow 00{:}41{:}29.480$  Below are some of some of our friends,
- NOTE Confidence: 0.286091365
- $00:41:29.480 \longrightarrow 00:41:31.034$  so it can be a tough place.
- NOTE Confidence: 0.286091365
- $00:41:31.040 \longrightarrow 00:41:34.368$  But we need to to think about how
- NOTE Confidence: 0.286091365
- $00:41:34.368 \longrightarrow 00:41:37.200$  we can make it better for everyone.
- NOTE Confidence: 0.965497459090909
- 00:41:41.040 --> 00:41:42.954 If you haven't read your New
- NOTE Confidence: 0.965497459090909
- 00:41:42.954 --> 00:41:44.600 England Journal for the week,
- NOTE Confidence: 0.965497459090909
- 00:41:44.600 --> 00:41:49.400 you might put a pen on Lisa
- NOTE Confidence: 0.965497459090909
- $00{:}41{:}49{.}400 \dashrightarrow 00{:}41{:}53{.}160$  Rosenbaum's editorial from last week.
- NOTE Confidence: 0.8705175225
- $00{:}41{:}55{.}680 \dashrightarrow 00{:}41{:}56{.}600$  This should be fun.
- NOTE Confidence: 0.8053699
- 00:42:01.120 --> 00:42:03.476 Hi, Mr. Misses Jones. I'm Doctor Anderson,
- NOTE Confidence: 0.925175782857143

 $00:42:03.480 \rightarrow 00:42:06.434$  the neurosurgeon. It's nice to meet you.

NOTE Confidence: 0.925175782857143

00:42:06.440 --> 00:42:07.726 Can you tell me a little bit about

NOTE Confidence: 0.925175782857143

00:42:07.726 --> 00:42:11.880 what's been going on with Jimmy? Well,

NOTE Confidence: 0.798622878333333

00:42:11.880 --> 00:42:13.800 he's, he was sick last week,

NOTE Confidence: 0.798622878333333

00:42:13.800 - 00:42:16.544 just all this week having, you know,

NOTE Confidence: 0.798622878333333

 $00:42:16.544 \rightarrow 00:42:19.250$  throwing up and headaches and

NOTE Confidence: 0.798622878333333

00:42:19.250 --> 00:42:21.575 just really intensely sick and

NOTE Confidence: 0.798622878333333

 $00:42:21.575 \longrightarrow 00:42:24.110$  just not kicking it. Yeah, so.

NOTE Confidence: 0.798622878333333

 $00:42:24.110 \rightarrow 00:42:25.784$  And we know there's a flu going around,

NOTE Confidence: 0.798622878333333

 $00:42:25.784 \longrightarrow 00:42:27.691$  so we just wanted to make sure

NOTE Confidence: 0.798622878333333

 $00{:}42{:}27.691 \dashrightarrow 00{:}42{:}28.844$  it wasn't anything more serious.

NOTE Confidence: 0.798622878333333

 $00{:}42{:}28{.}844 \dashrightarrow 00{:}42{:}33{.}400$  And then they wanted to give him an MRI here.

NOTE Confidence: 0.798622878333333

 $00:42:33.400 \rightarrow 00:42:36.052$  So yeah, just they said to roll things out,

NOTE Confidence: 0.798622878333333

 $00:42:36.052 \rightarrow 00:42:38.160$  but he's been gone for four hours

NOTE Confidence: 0.63663997

 $00:42:38.160 \longrightarrow 00:42:40.048$  now. We've been waiting.

NOTE Confidence: 0.63663997

00:42:40.048 --> 00:42:42.984 So, so you've he's been sick for about

- NOTE Confidence: 0.63663997
- $00:42:42.984 \rightarrow 00:42:46.159$  a week and throwing up and headaches,
- NOTE Confidence: 0.63663997
- $00{:}42{:}46{.}160 \dashrightarrow 00{:}42{:}47{.}798$  and I know you've been waiting a long time,
- NOTE Confidence: 0.63663997
- $00:42:47.800 \longrightarrow 00:42:48.800$  and I'm sorry about that.
- NOTE Confidence: 0.63663997
- $00:42:48.800 \rightarrow 00:42:50.711$  They have to, they have to sedate
- NOTE Confidence: 0.63663997
- $00{:}42{:}50{.}711 \dashrightarrow 00{:}42{:}52{.}775$  him a little bit to get him to
- NOTE Confidence: 0.63663997
- $00:42:52.775 \longrightarrow 00:42:54.320$  hold still for the MRI scan.
- NOTE Confidence: 0.875372253333333
- $00:42:52.600 \longrightarrow 00:42:54.320$  Is he scared? Is he OK? He's OK.
- NOTE Confidence: 0.941418598571429
- 00:42:54.320 --> 00:42:55.916 I just saw him and I was.
- NOTE Confidence: 0.941418598571429
- 00:42:55.920 --> 00:42:57.296 He was basically like
- NOTE Confidence: 0.941418598571429
- $00:42:57.296 \rightarrow 00:42:59.360$  waking up from a long nap.
- NOTE Confidence: 0.941418598571429
- $00:42:59.360 \rightarrow 00:43:01.240$  So he's moving around and he looks fine.
- NOTE Confidence: 0.941418598571429
- $00{:}43{:}01{.}240 \dashrightarrow 00{:}43{:}03{.}032$  He's opened his eyes, but he's still
- NOTE Confidence: 0.941418598571429
- $00:43:03.032 \rightarrow 00:43:05.078$  not kind of back to his normal self yet.
- NOTE Confidence: 0.941418598571429
- $00{:}43{:}05{.}080 \dashrightarrow 00{:}43{:}07{.}504$  The nurses are watching him really
- NOTE Confidence: 0.941418598571429
- $00:43:07.504 \rightarrow 00:43:09.759$  closely and everything's fine with him.
- NOTE Confidence: 0.941418598571429

 $00{:}43{:}09{.}760 \dashrightarrow 00{:}43{:}11.888$  I looked at the MRI scan and I'm

NOTE Confidence: 0.941418598571429

 $00{:}43{:}11.888 \dashrightarrow 00{:}43{:}14.239$  a fraid I have some bad news for you.

NOTE Confidence: 0.941418598571429

 $00{:}43{:}14.240 \dashrightarrow 00{:}43{:}15.598$  Looks like he's got a brain tumor.

NOTE Confidence: 0.947476923333333

00:43:26.800 --> 00:43:29.413 Are you sure? Yeah. I checked

NOTE Confidence: 0.947476923333333

 $00:43:29.413 \longrightarrow 00:43:31.279$  very carefully the scan and him,

NOTE Confidence: 0.947476923333333

 $00:43:31.280 \rightarrow 00:43:33.560$  and it fits with the symptoms he's having.

NOTE Confidence: 0.947476923333333

 $00{:}43{:}33{.}560 \dashrightarrow 00{:}43{:}35{.}792$  And he's got a small brain tumor back here

NOTE Confidence: 0.947476923333333

 $00{:}43{:}35.792 \dashrightarrow 00{:}43{:}37.960$  in his cerebellum on the right side. I

NOTE Confidence: 0.75617036

 $00{:}43{:}47{.}680 \dashrightarrow 00{:}43{:}49{.}320$  just thought he had the,

NOTE Confidence: 0.75617036

 $00:43:49.320 \longrightarrow 00:43:50.636$  you know, he just thought it was.

NOTE Confidence: 0.75617036

 $00{:}43{:}50{.}640 \dashrightarrow 00{:}43{:}51{.}444$  I mean we just,

NOTE Confidence: 0.75617036

 $00:43:51.444 \rightarrow 00:43:53.000$  we thought it was kind of silly.

NOTE Confidence: 0.75617036

00:43:53.000 - 00:43:54.120 We even came in today

NOTE Confidence: 0.771540875

 $00:43:56.320 \rightarrow 00:43:58.276$  sometimes. These present that way people,

NOTE Confidence: 0.771540875

 $00{:}43{:}58{.}280 \dashrightarrow 00{:}43{:}59{.}729$  the the little kids are sick and

NOTE Confidence: 0.771540875

 $00:43:59.729 \rightarrow 00:44:00.760$  they're nausea and vomiting.

- NOTE Confidence: 0.771540875
- 00:44:00.760 --> 00:44:02.074 But it turns out it's actually
- NOTE Confidence: 0.771540875
- $00{:}44{:}02.074 \dashrightarrow 00{:}44{:}03.685$  pressure on the back of the brain
- NOTE Confidence: 0.771540875
- $00:44:03.685 \longrightarrow 00:44:05.053$  that's causing him to have the
- NOTE Confidence: 0.771540875
- $00:44:05.053 \rightarrow 00:44:06.319$  headaches and that kind of thing.
- NOTE Confidence: 0.837282368
- $00:44:12.800 \longrightarrow 00:44:14.040$  This is really a shock.
- NOTE Confidence: 0.837282368
- 00:44:14.040 --> 00:44:17.200 I just don't just.
- NOTE Confidence: 0.837282368
- 00:44:17.200 --> 00:44:19.319 I'm so just done.
- NOTE Confidence: 0.837282368
- $00:44:19.319 \longrightarrow 00:44:20.314$  Didn't even know why they
- NOTE Confidence: 0.837282368
- $00:44:20.314 \longrightarrow 00:44:21.439$  wanted to get him an MRI.
- NOTE Confidence: 0.837282368
- $00:44:21.440 \longrightarrow 00:44:23.000$  Where? Oh my God.
- NOTE Confidence: 0.959475312
- $00{:}44{:}23.640 \dashrightarrow 00{:}44{:}24.840$  I know this must be really
- NOTE Confidence: 0.959475312
- $00{:}44{:}24{.}840 \dashrightarrow 00{:}44{:}25{.}720$  hard news to hear. Is
- NOTE Confidence: 0.72273369
- $00:44:29.520 \longrightarrow 00:44:30.560$  he going to be OK?
- NOTE Confidence: 0.747824648
- $00{:}44{:}30{.}680 \dashrightarrow 00{:}44{:}32{.}156$  He's going to be OK. We're going to
- NOTE Confidence: 0.747824648
- $00{:}44{:}32.156 \dashrightarrow 00{:}44{:}33.560$  be with you every step of the way.
- NOTE Confidence: 0.747824648

00:44:33.560 --> 00:44:35.728 Would you mind if I tell you a little

NOTE Confidence: 0.747824648

 $00:44:35.728 \rightarrow 00:44:36.836$  bit about what the plan's going to be,

NOTE Confidence: 0.747824648

 $00:44:36.840 \longrightarrow 00:44:37.836$  what we're going to,

NOTE Confidence: 0.747824648

 $00:44:37.836 \longrightarrow 00:44:39.796$  what the next step is so we can

NOTE Confidence: 0.747824648

00:44:39.796 --> 00:44:42.440 keep taking good care of him? Yeah.

NOTE Confidence: 0.747824648

 $00{:}44{:}42{.}440 \dashrightarrow 00{:}44{:}44{.}519$  So that I can tell you one thing and NOTE Confidence: 0.747824648

00:44:44.519 --> 00:44:46.175 looking at the MRI scan sometimes

NOTE Confidence: 0.747824648

 $00:44:46.175 \rightarrow 00:44:47.916$  these you can tell whether they're

NOTE Confidence: 0.747824648

 $00{:}44{:}47{.}916$  -->  $00{:}44{:}49{.}806$  more slow growing benign tumors or NOTE Confidence: 0.747824648

 $00{:}44{:}49{.}806 \dashrightarrow 00{:}44{:}51{.}326$  more fast growing aggressive tumors.

NOTE Confidence: 0.747824648

 $00:44:51.326 \rightarrow 00:44:53.590$  And the good news is it's the more NOTE Confidence: 0.747824648

00:44:53.648 --> 00:44:55.358 small growing benign type tumor.

NOTE Confidence: 0.747824648

00:44:55.360 - 00:44:56.596 It looks like we won't know

NOTE Confidence: 0.747824648

 $00:44:56.596 \rightarrow 00:44:58.040$  for sure till we take it out,

NOTE Confidence: 0.747824648

 $00:44:58.040 \longrightarrow 00:45:00.028$  but we're going to have to do

NOTE Confidence: 0.747824648

 $00:45:00.028 \rightarrow 00:45:02.070$  surgery to get it out and try to

 $00:45:02.070 \longrightarrow 00:45:03.480$  cure him from this brain tumor.

NOTE Confidence: 0.576181673333333

 $00:45:04.040 \longrightarrow 00:45:06.116$  So it's just a benign 1.

NOTE Confidence: 0.576181673333333

 $00:45:06.120 \rightarrow 00:45:07.280$  If you think it's, we

NOTE Confidence: 0.9317189666666667

 $00:45:07.280 \longrightarrow 00:45:08.438$  hope so. We'll know once we

NOTE Confidence: 0.9317189666666667

 $00:45:08.438 \longrightarrow 00:45:09.920$  look at it under the microscope.

NOTE Confidence: 0.9317189666666667

 $00:45:09.920 \longrightarrow 00:45:11.318$  But looking at the MRI scan,

NOTE Confidence: 0.9317189666666667

 $00:45:11.320 \longrightarrow 00:45:12.862$  that's that would be the the

NOTE Confidence: 0.9317189666666667

 $00:45:12.862 \longrightarrow 00:45:13.800$  more likely scenario. That's

NOTE Confidence: 0.751035365

00:45:13.800 --> 00:45:14.718 what it looks like. You're not,

NOTE Confidence: 0.751035365

00:45:14.720 --> 00:45:15.920 it's not just that you're going

NOTE Confidence: 0.751035365

00:45:15.920 --> 00:45:17.771 to rule out. I mean, it's,

NOTE Confidence: 0.751035365

 $00{:}45{:}17.771 \dashrightarrow 00{:}45{:}19.880$  it's probably benign then. So where

NOTE Confidence: 0.927658523333333

 $00{:}45{:}19.880 \dashrightarrow 00{:}45{:}21.639$  it's located, it looks like that, Yes.

NOTE Confidence: 0.927658523333333

00:45:21.639 --> 00:45:23.871 OK. So, so we've looked at the schedule

NOTE Confidence: 0.927658523333333

 $00{:}45{:}23.871$  -->  $00{:}45{:}26.446$  and we want to admit him to the hospital NOTE Confidence: 0.927658523333333

 $00:45:26.446 \rightarrow 00:45:28.554$  tonight and we'll keep him here over

NOTE Confidence: 0.927658523333333

 $00:45:28.554 \rightarrow 00:45:31.096$  tomorrow and give him some steroids to get

NOTE Confidence: 0.927658523333333

 $00:45:31.096 \rightarrow 00:45:33.560$  the swelling down so he'll feel better.

NOTE Confidence: 0.927658523333333

 $00:45:33.560 \rightarrow 00:45:34.712$  And then Tuesday morning,

NOTE Confidence: 0.927658523333333

 $00:45:34.712 \longrightarrow 00:45:36.440$  we'll do the surgery and the

NOTE Confidence: 0.927658523333333

 $00:45:36.493 \rightarrow 00:45:38.197$  surgery will last about 3 hours.

NOTE Confidence: 0.927658523333333

 $00:45:38.200 \longrightarrow 00:45:39.320$  A couple days. Yeah.

NOTE Confidence: 0.60155237

00:45:46.680 --> 00:45:49.760 So can we see you Missy? Yeah, he's

NOTE Confidence: 0.811239521538462

 $00:45:49.760 \longrightarrow 00:45:51.120$  going to be right up by the nurses

NOTE Confidence: 0.811239521538462

 $00:45:51.120 \rightarrow 00:45:52.446$  were just about ready to, you know,

NOTE Confidence: 0.811239521538462

 $00{:}45{:}52{.}446 \dashrightarrow 00{:}45{:}53{.}544$  they were getting him already in

NOTE Confidence: 0.811239521538462

 $00{:}45{:}53{.}544 \dashrightarrow 00{:}45{:}54{.}795$  the bed and he was like I said,

NOTE Confidence: 0.811239521538462

 $00:45:54.800 \rightarrow 00:45:56.116$  waking up from like a long nap.

NOTE Confidence: 0.811239521538462

 $00:45:56.120 \longrightarrow 00:45:57.597$  And he's going to be up here

NOTE Confidence: 0.811239521538462

 $00{:}45{:}57{.}597 \dashrightarrow 00{:}45{:}59{.}240$  in about 5 minutes. And

NOTE Confidence: 0.93308748375

 $00:46:01.720 \longrightarrow 00:46:03.160$  I know that's a lot to take in,

- NOTE Confidence: 0.93308748375
- $00:46:03.160 \longrightarrow 00:46:05.278$  but what questions do you have?

00:46:06.200 --> 00:46:08.320 I know I'm just so floored right now.

NOTE Confidence: 0.73741574

00:46:08.320 --> 00:46:11.920 I just do you, how long do

NOTE Confidence: 0.73741574

00:46:11.920 --> 00:46:12.880 you think he's going to be in,

NOTE Confidence: 0.73741574

 $00:46:12.880 \longrightarrow 00:46:14.320$  in the hospital after the surgery?

NOTE Confidence: 0.73741574

 $00:46:14.320 \longrightarrow 00:46:15.600$  If things go, things

NOTE Confidence: 0.958345848

 $00:46:15.600 \longrightarrow 00:46:16.520$  go well. He should be

NOTE Confidence: 0.965488345714286

 $00:46:16.520 \rightarrow 00:46:18.235$  able to go home by next weekend.

NOTE Confidence: 0.965488345714286

00:46:18.240 --> 00:46:19.304 So tonight, Sunday nights,

NOTE Confidence: 0.965488345714286

00:46:19.304 --> 00:46:20.020 have surgery, Tuesday,

NOTE Confidence: 0.965488345714286

 $00:46:20.020 \longrightarrow 00:46:21.280$  should be able to go home by,

NOTE Confidence: 0.965488345714286

00:46:21.280 --> 00:46:22.560 you know, Friday, Saturday, he's

NOTE Confidence: 0.6778919916666667

 $00:46:22.880 \rightarrow 00:46:24.236$  going, he's going to be OK.

NOTE Confidence: 0.6778919916666667

00:46:24.240 --> 00:46:26.240 We just, he's going to be OK. We're

NOTE Confidence: 0.910475007692308

 $00{:}46{:}26{.}240 \dashrightarrow 00{:}46{:}27{.}314$  going to be with him every

 $00:46:27.314 \rightarrow 00:46:28.678$  step of the way with you guys.

NOTE Confidence: 0.910475007692308

 $00:46:28.680 \longrightarrow 00:46:30.526$  And if you want to, I'll come back

NOTE Confidence: 0.910475007692308

 $00:46:30.526 \longrightarrow 00:46:32.240$  in a little bit and we can talk.

NOTE Confidence: 0.910475007692308

 $00{:}46{:}32.240 \dashrightarrow 00{:}46{:}33.752$  You know, once you've got a chance to kind

NOTE Confidence: 0.910475007692308

00:46:33.752 --> 00:46:35.275 of process a little bit of this stuff,

NOTE Confidence: 0.910475007692308

 $00{:}46{:}35{.}280 \dashrightarrow 00{:}46{:}36{.}928$  we can talk and with him and tell

NOTE Confidence: 0.910475007692308

 $00:46:36.928 \rightarrow 00:46:38.477$  him he's going to have to have,

NOTE Confidence: 0.910475007692308

00:46:38.480 --> 00:46:40.118 you know, a little surgery on Tuesday.

NOTE Confidence: 0.78899742111111

 $00{:}46{:}40{.}800 \dashrightarrow 00{:}46{:}41{.}451$  Yeah, that would.

NOTE Confidence: 0.78899742111111

 $00:46:41.451 \rightarrow 00:46:43.600$  I think that would be helpful. Yeah.

NOTE Confidence: 0.78899742111111

 $00{:}46{:}43.600 \dashrightarrow 00{:}46{:}45.400$  Yeah. I'm not sure what helps.

NOTE Confidence: 0.78899742111111

00:46:45.400 --> 00:46:46.440 Yeah. I don't know.

NOTE Confidence: 0.66004455

 $00:46:48.760 \longrightarrow 00:46:51.074$  Your job just to be mom and dad.

NOTE Confidence: 0.738048954

00:46:51.080 --> 00:46:52.605 Well, we'll be the neurosurgeons, OK?

NOTE Confidence: 0.738048954

 $00{:}46{:}52.605 \dashrightarrow 00{:}46{:}54.906$  We'll take good care of them. All right.

NOTE Confidence: 0.738048954

00:46:54.906 --> 00:46:56.280 Thanks. All right. Take care.

00:47:02.600 --> 00:47:06.118 Well, you might not do brain surgery,

NOTE Confidence: 0.734239875454546

 $00:47:06.120 \longrightarrow 00:47:07.835$  but they're going to be plenty of

NOTE Confidence: 0.734239875454546

 $00:47:07.835 \longrightarrow 00:47:09.080$  tough issues you'll encounter.

NOTE Confidence: 0.734239875454546

00:47:09.080 --> 00:47:12.280 So I I need to apologize to Tim

NOTE Confidence: 0.734239875454546

 $00:47:12.280 \rightarrow 00:47:15.920$  O'Brien for the things they carried.

NOTE Confidence: 0.734239875454546

00:47:15.920 --> 00:47:20.120 I come to this Yale School of Medicine,

NOTE Confidence: 0.734239875454546

 $00:47:20.120 \longrightarrow 00:47:22.520$  a quiet, thoughtful sort of person.

NOTE Confidence: 0.734239875454546

00:47:22.520 --> 00:47:25.238 A college grad, Phi Beta Kappa,

NOTE Confidence: 0.734239875454546

00:47:25.240 --> 00:47:26.299 summa \*\*\* laude.

NOTE Confidence: 0.734239875454546

 $00:47:26.299 \longrightarrow 00:47:27.358$  All the credentials.

NOTE Confidence: 0.734239875454546

00:47:27.360 --> 00:47:30.360 But after seven months in class,

NOTE Confidence: 0.734239875454546

 $00{:}47{:}30{.}360 \dashrightarrow 00{:}47{:}33{.}798$  in the lab, on the floors and the clinic,

NOTE Confidence: 0.734239875454546

 $00:47:33.800 \longrightarrow 00:47:37.594$  the Ed, the, OR the delivery room,

NOTE Confidence: 0.734239875454546

 $00{:}47{:}37.600 \dashrightarrow 00{:}47{:}40.532$  I realized those high,

NOTE Confidence: 0.734239875454546

 $00{:}47{:}40.532 \dashrightarrow 00{:}47{:}42.944$  civilized trappings had somehow

- $00:47:42.944 \rightarrow 00:47:45.304$  been crushed under the weight
- NOTE Confidence: 0.734239875454546
- $00:47:45.304 \longrightarrow 00:47:47.640$  of simple daily realities.
- NOTE Confidence: 0.734239875454546
- 00:47:47.640 --> 00:47:49.120 I'd turn mean inside.
- NOTE Confidence: 0.7802682625
- 00:47:55.610 --> 00:47:59.302 I want to thank Michael Haglund
- NOTE Confidence: 0.7802682625
- $00:47:59.302 \longrightarrow 00:48:01.086$  for sharing those videos.
- NOTE Confidence: 0.7802682625
- $00:48:01.090 \longrightarrow 00:48:03.430$  Wilton Son, the Medical Student
- NOTE Confidence: 0.7802682625
- $00{:}48{:}03{.}430 \dashrightarrow 00{:}48{:}05{.}170$  Council and Doctor Mint.
- NOTE Confidence: 0.64386135
- 00:48:21.240 --> 00:48:22.880 Awesome. Thank you so much, Doctor Duncan.
- NOTE Confidence: 0.959195483333333
- $00:48:22.880 \longrightarrow 00:48:26.276$  That was a really great talk.
- NOTE Confidence: 0.959195483333333
- 00:48:26.280 --> 00:48:28.520 If anyone has any questions,
- NOTE Confidence: 0.959195483333333
- $00{:}48{:}28{.}520 \dashrightarrow 00{:}48{:}30{.}815$  there should be AQ and a box for you
- NOTE Confidence: 0.959195483333333
- 00:48:30.815 --> 00:48:33.880 to type them in and we'll just go by
- NOTE Confidence: 0.959195483333333
- $00{:}48{:}33{.}880 \dashrightarrow 00{:}48{:}35{.}497$  them by the order that were received
- NOTE Confidence: 0.959195483333333
- $00{:}48{:}35{.}497 \dashrightarrow 00{:}48{:}37{.}397$  with the last few minutes that we have.
- NOTE Confidence: 0.7038934316666667
- $00:49:04.640 \longrightarrow 00:49:05.652$  Well, if questions occur
- NOTE Confidence: 0.703893431666667
- $00:49:05.652 \rightarrow 00:49:08.360$  to you, we come to the lab.

- NOTE Confidence: 0.61151725
- $00:49:15.280 \longrightarrow 00:49:17.200$  We just have one comment,

 $00{:}49{:}17.200 \dashrightarrow 00{:}49{:}19.840$  just thanking you for the talk.

NOTE Confidence: 0.907916340769231

 $00:49:19.840 \rightarrow 00:49:21.660$  I guess while other people are typing

NOTE Confidence: 0.907916340769231

 $00:49:21.660 \rightarrow 00:49:23.518$  their questions or thinking of questions,

NOTE Confidence: 0.907916340769231

 $00:49:23.520 \rightarrow 00:49:27.192$  sort of one small question that I had with,

NOTE Confidence: 0.907916340769231

 $00:49:27.200 \longrightarrow 00:49:28.896$  you know, some of the things, oh,

NOTE Confidence: 0.907916340769231

 $00:49:28.896 \rightarrow 00:49:31.590$  actually we do have one question.

NOTE Confidence: 0.907916340769231

 $00{:}49{:}31{.}590 \dashrightarrow 00{:}49{:}33{.}720$  So this attending says that attendee

NOTE Confidence: 0.907916340769231

 $00{:}49{:}33{.}720 \dashrightarrow 00{:}49{:}36{.}114$  says that they are pursuing a post

NOTE Confidence: 0.907916340769231

 $00{:}49{:}36{.}114 \dashrightarrow 00{:}49{:}38{.}458$  baccalaureate and very much at the beginning

NOTE Confidence: 0.907916340769231

00:49:38.458 --> 00:49:40.754 of their Med school journey For you,

NOTE Confidence: 0.907916340769231

 $00{:}49{:}40{.}760 \dashrightarrow 00{:}49{:}42{.}657$  you know, did you always know what

NOTE Confidence: 0.907916340769231

 $00{:}49{:}42.657 \dashrightarrow 00{:}49{:}44.379$  specialty you were aiming for when

NOTE Confidence: 0.907916340769231

00:49:44.379 --> 00:49:46.200 you were going through, you know,

NOTE Confidence: 0.907916340769231

 $00:49:46.200 \rightarrow 00:49:48.240$  the the training process and education?

 $00{:}49{:}49{.}720 \dashrightarrow 00{:}49{:}51{.}880$  I didn't. And I think it's a a

NOTE Confidence: 0.881857768461538

 $00{:}49{:}51{.}880 \dashrightarrow 00{:}49{:}53{.}479$  fascinating question when people decide.

NOTE Confidence: 0.881857768461538

00:49:53.480 --> 00:49:55.640 I mean I think they're plenty of

NOTE Confidence: 0.881857768461538

 $00:49:55.640 \rightarrow 00:49:58.400$  people who come to medical school.

NOTE Confidence: 0.881857768461538

00:49:58.400 - 00:50:01.520 Sure they're going to be whatever,

NOTE Confidence: 0.881857768461538

 $00:50:01.520 \longrightarrow 00:50:04.416$  but the part of the beauty of

NOTE Confidence: 0.881857768461538

 $00:50:04.416 \rightarrow 00:50:06.985$  medical school is being able to try

NOTE Confidence: 0.881857768461538

 $00{:}50{:}06{.}985 \dashrightarrow 00{:}50{:}09{.}258$  out so many different different areas

NOTE Confidence: 0.881857768461538

 $00:50:09.258 \rightarrow 00:50:11.403$  that particularly in the clerkships

NOTE Confidence: 0.881857768461538

 $00{:}50{:}11{.}403 \dashrightarrow 00{:}50{:}13{.}889$  for example that you get to put on a

NOTE Confidence: 0.881857768461538

 $00:50:13.889 \rightarrow 00:50:16.240$  a hat that says you're a cardiologist

NOTE Confidence: 0.881857768461538

 $00:50:16.240 \longrightarrow 00:50:20.113$  for a while or a pediatrician and

NOTE Confidence: 0.881857768461538

 $00:50:20.113 \rightarrow 00:50:23.357$  everyone has interesting problems.

NOTE Confidence: 0.881857768461538

 $00:50:23.360 \rightarrow 00:50:27.184$  I worry that if a team is too friendly,

NOTE Confidence: 0.881857768461538

 $00:50:27.184 \rightarrow 00:50:29.920$  that might push you to in that direction,

NOTE Confidence: 0.881857768461538

 $00:50:29.920 \longrightarrow 00:50:32.158$  or if a team is unfriendly,

- NOTE Confidence: 0.881857768461538
- $00:50:32.160 \longrightarrow 00:50:35.480$  that might push you away. So.
- NOTE Confidence: 0.881857768461538
- $00:50:35.480 \longrightarrow 00:50:38.140$  But the the, the, the, the,
- NOTE Confidence: 0.881857768461538
- $00:50:38.140 \longrightarrow 00:50:42.610$  the times that people spend learning
- NOTE Confidence: 0.881857768461538
- $00:50:42.610 \rightarrow 00:50:44.890$  about specialties certainly seems
- NOTE Confidence: 0.881857768461538
- $00:50:44.890 \longrightarrow 00:50:48.440$  to be the most decisive factor.
- NOTE Confidence: 0.881857768461538
- $00{:}50{:}48{.}440 \dashrightarrow 00{:}50{:}50{.}120$  And don't be a fraid to change your mind.
- NOTE Confidence: 0.2738604
- $00:50:57.400 \longrightarrow 00:50:57.520$  Yeah.
- NOTE Confidence: 0.78540665
- $00:51:17.640 \longrightarrow 00:51:19.200$  So I guess some more you know
- NOTE Confidence: 0.78540665
- $00:51:19.200 \longrightarrow 00:51:20.160$  technical question that I
- NOTE Confidence: 0.761589205
- $00:51:20.215 \rightarrow 00:51:21.797$  had you know regarding some of the
- NOTE Confidence: 0.761589205
- 00:51:21.797 --> 00:51:24.101 stuff that you know you had done with
- NOTE Confidence: 0.761589205
- $00{:}51{:}24.101 \dashrightarrow 00{:}51{:}25.357$  Indomethac in for intra ventricular
- NOTE Confidence: 0.761589205
- 00:51:25.357 --> 00:51:27.480 hemorrhage is you know did you were
- NOTE Confidence: 0.761589205
- $00{:}51{:}27{.}480 \dashrightarrow 00{:}51{:}30{.}138$  there any sort of risk factors or
- NOTE Confidence: 0.761589205
- $00:51:30.138 \rightarrow 00:51:32.370$  prognostic factors that that you've
- NOTE Confidence: 0.761589205

 $00{:}51{:}32{.}370$  -->  $00{:}51{:}34{.}680$  noticed you know throughout the project NOTE Confidence: 0.761589205

 $00{:}51{:}34{.}680 \dashrightarrow 00{:}51{:}36{.}784$  that made it you know more efficacious NOTE Confidence: 0.761589205

 $00{:}51{:}36{.}784 \dashrightarrow 00{:}51{:}38{.}981$  in certain you know patients or was it NOTE Confidence: 0.761589205

 $00{:}51{:}38{.}981 \dashrightarrow 00{:}51{:}40{.}701$  you know just wanted to kind of hear NOTE Confidence: 0.761589205

 $00:51:40.760 \rightarrow 00:51:42.552$  a little bit more thoughts about that

NOTE Confidence: 0.761589205

 $00{:}51{:}42{.}552 \dashrightarrow 00{:}51{:}45{.}340$  if there were any resistance or non NOTE Confidence: 0.761589205

 $00:51:45.340 \rightarrow 00:51:47.360$  responsiveness to the endomethacin.

NOTE Confidence: 0.884627618333333

 $00:51:48.240 \rightarrow 00:51:51.240$  Well since hemorrhages occur so early

NOTE Confidence: 0.83617222444445

 $00{:}51{:}53{.}440 \dashrightarrow 00{:}51{:}55{.}768$  we tried giving in the methicine

NOTE Confidence: 0.83617222444445

 $00{:}51{:}55{.}768$  -->  $00{:}51{:}58{.}210$  early and and quickly we're reminded

NOTE Confidence: 0.83617222444445

 $00{:}51{:}58{.}210 \dashrightarrow 00{:}52{:}00{.}640$  and learned an awful lot about

NOTE Confidence: 0.940732062

 $00{:}52{:}02.680 \dashrightarrow 00{:}52{:}05.800$  renal blood flow after transition. So

NOTE Confidence: 0.846029053333333

00:52:09.600 --> 00:52:11.972 renal blood flow increasing

NOTE Confidence: 0.846029053333333

 $00:52:11.972 \longrightarrow 00:52:15.899$  post natally post delivery is

NOTE Confidence: 0.846029053333333

 $00{:}52{:}15{.}899 \dashrightarrow 00{:}52{:}18{.}638$  is prostagland in dependent.

NOTE Confidence: 0.846029053333333

 $00:52:18.640 \longrightarrow 00:52:21.160$  So we and and dose dependent.

- NOTE Confidence: 0.846029053333333
- $00:52:21.160 \rightarrow 00:52:27.800$  So our early trials were adjusting
- NOTE Confidence: 0.846029053333333
- $00{:}52{:}27.800 \dashrightarrow 00{:}52{:}29.720$  dose and adjusting timing
- NOTE Confidence: 0.90344087
- $00:52:35.280 \longrightarrow 00:52:36.720$  and we would want to see
- NOTE Confidence: 0.809786598
- $00:52:40.040 \longrightarrow 00:52:42.760$  child, child is born prematurely.
- NOTE Confidence: 0.809786598
- 00:52:42.760 --> 00:52:45.714 Everyone's anxious before we can do anything.
- NOTE Confidence: 0.809786598
- $00{:}52{:}45{.}720 \dashrightarrow 00{:}52{:}51{.}066$  We have to consent the mom and make
- NOTE Confidence: 0.809786598
- $00:52:51.066 \rightarrow 00:52:53.117$  sure they understand what we're up to.
- NOTE Confidence: 0.809786598
- $00{:}52{:}53{.}120 \dashrightarrow 00{:}52{:}57{.}312$  Do an ultrasound and have a baseline
- NOTE Confidence: 0.809786598
- $00{:}52{:}57{.}312 \dashrightarrow 00{:}53{:}00{.}120$  for whether there's a hemorrhage or not.
- NOTE Confidence: 0.809786598
- $00:53:00.120 \longrightarrow 00:53:02.232$  If there's a hemorrhage,
- NOTE Confidence: 0.809786598
- $00:53:02.232 \longrightarrow 00:53:05.010$  there's we we didn't do a
- NOTE Confidence: 0.809786598
- $00{:}53{:}05{.}010 \dashrightarrow 00{:}53{:}07{.}160$  study to prevent progression.
- NOTE Confidence: 0.73614220875
- $00:53:10.400 \rightarrow 00:53:11.496$  So these were there,
- NOTE Confidence: 0.73614220875
- $00{:}53{:}11.496 \dashrightarrow 00{:}53{:}13.517$  there there you you plan plan a
- NOTE Confidence: 0.73614220875
- $00{:}53{:}13.517 \dashrightarrow 00{:}53{:}15.743$  project and there are always lots of
- NOTE Confidence: 0.73614220875

 $00{:}53{:}15{.}743 \dashrightarrow 00{:}53{:}17{.}477$  confounding factors to move along with.

NOTE Confidence: 0.73614220875

 $00{:}53{:}17{.}480 \dashrightarrow 00{:}53{:}21{.}540$  But we wound up with over 500 children

NOTE Confidence: 0.73614220875

 $00{:}53{:}21{.}540 \dashrightarrow 00{:}53{:}25{.}320$  in our multi center randomized trial.

NOTE Confidence: 0.73614220875

 $00{:}53{:}25{.}320 \dashrightarrow 00{:}53{:}32{.}745$  The NIH had a looked at the the 10

NOTE Confidence: 0.73614220875

 $00:53:32.745 \longrightarrow 00:53:35.210$  most significant clinical trials

NOTE Confidence: 0.73614220875

 $00:53:35.210 \longrightarrow 00:53:40.019$  over a period of time and in the NOTE Confidence: 0.73614220875

00:53:40.019 --> 00:53:42.120 methic<br/>ine was at the top in terms of

NOTE Confidence: 0.797735922

 $00:53:44.200 \longrightarrow 00:53:47.304$  reducing morbidity and morbidity

NOTE Confidence: 0.797735922

 $00{:}53{:}47{.}304 \dashrightarrow 00{:}53{:}51{.}874$  mortality, morbidity of any

NOTE Confidence: 0.797735922

 $00{:}53{:}51{.}874 \dashrightarrow 00{:}53{:}55{.}159$  any just about anything else.

NOTE Confidence: 0.797735922

 $00{:}53{:}55{.}160 \dashrightarrow 00{:}53{:}57{.}890$  Oh this is this is thanks to Doctor

NOTE Confidence: 0.797735922

00:53:57.890 -> 00:53:59.440 Min a huge huge achievement.

NOTE Confidence: 0.797735922

00:53:59.440 --> 00:54:01.785 Like I said I I enjoy being

NOTE Confidence: 0.797735922

 $00{:}54{:}01{.}785 \dashrightarrow 00{:}54{:}03{.}879$  more of a bit player.

NOTE Confidence: 0.9507916366666667

 $00{:}54{:}07{.}960 \dashrightarrow 00{:}54{:}10{.}360$  A we some. The next question for you,

NOTE Confidence: 0.9507916366666667

 $00:54:10.360 \rightarrow 00:54:11.806$  just wanted to hear your thoughts

- NOTE Confidence: 0.9507916366666667
- $00:54:11.806 \longrightarrow 00:54:13.703$  on what do you think is next
- NOTE Confidence: 0.9507916366666667
- 00:54:13.703 --> 00:54:14.879 in pediatric nerve surgery.
- NOTE Confidence: 0.7248205566666667
- 00:54:16.880 --> 00:54:21.600 Well, boy, I I think that whether
- NOTE Confidence: 0.829157413
- $00{:}54{:}23.800 \dashrightarrow 00{:}54{:}26.488$  nanoparticles are going to be able to
- NOTE Confidence: 0.829157413

00:54:26.488 --> 00:54:31.600 deliver drugs to to tumors what other

NOTE Confidence: 0.829157413

 $00{:}54{:}31{.}600 \dashrightarrow 00{:}54{:}36{.}200$  other the rapies we can devise. Certainly

NOTE Confidence: 0.860206624285714

 $00:54:38.240 \longrightarrow 00:54:41.957$  endoscopy has come to the head.

- NOTE Confidence: 0.860206624285714
- 00:54:41.960 --> 00:54:44.100 What are There's plenty of
- NOTE Confidence: 0.860206624285714
- $00:54:44.100 \longrightarrow 00:54:46.240$  smart people in your class.
- NOTE Confidence: 0.860206624285714
- $00{:}54{:}46{.}240 \dashrightarrow 00{:}54{:}49{.}488$  It seems to me instead of having a
- NOTE Confidence: 0.860206624285714
- $00:54:49.488 \longrightarrow 00:54:52.344$  fiber optic tube to look down that
- NOTE Confidence: 0.860206624285714
- $00:54:52.344 \rightarrow 00:54:56.270$  we could develop the engineers in the NOTE Confidence: 0.860206624285714
- 00:54:56.270 00:55:00.676 crowd to where they the the chip
- NOTE Confidence: 0.860206624285714
- $00:55:00.676 \rightarrow 00:55:02.881$  would be at the end of a flexible rod NOTE Confidence: 0.860206624285714
- 00:55:02.881 --> 00:55:05.198 and and provide a lot more flexibility.
- NOTE Confidence: 0.756656675

 $00{:}55{:}07{.}800 \dashrightarrow 00{:}55{:}10{.}928$  You look at the, the camera on your

NOTE Confidence: 0.756656675

00:55:10.928 --> 00:55:13.799 iPhone or your Android, It's tiny.

NOTE Confidence: 0.659022

 $00:55:16.000 \rightarrow 00:55:16.120$  Yeah.

NOTE Confidence: 0.910419606

00:55:18.360 --> 00:55:20.794 Next question, wanted to hear, you know,

NOTE Confidence: 0.910419606

 $00:55:20.794 \dashrightarrow 00:55:22.690$  if you if you went through sort of

NOTE Confidence: 0.910419606

00:55:22.751 --> 00:55:24.480 a midlife crisis and if you did,

NOTE Confidence: 0.910419606

 $00:55:24.480 \longrightarrow 00:55:26.240$  you know, what did you do about it

NOTE Confidence: 0.910419606

 $00:55:26.240 \rightarrow 00:55:28.317$  and did you sort of reinvent yourself?

NOTE Confidence: 0.6960742075

 $00{:}55{:}30{.}280 \dashrightarrow 00{:}55{:}33{.}465$  I I hope that we're all reinventing

NOTE Confidence: 0.6960742075

 $00:55:33.465 \rightarrow 00:55:37.228$  ourselves more frequently than midlife.

NOTE Confidence: 0.6960742075

 $00{:}55{:}37{.}228 \dashrightarrow 00{:}55{:}40{.}732$  I mean, we all have complicated times.

NOTE Confidence: 0.6960742075

 $00{:}55{:}40{.}732 \dashrightarrow 00{:}55{:}45{.}200$  I think that it sure helps to have a a

NOTE Confidence: 0.6960742075

 $00:55:45.200 \rightarrow 00:55:48.800$  family and a support system of of some sort

NOTE Confidence: 0.896039774166667

 $00:55:52.040 \longrightarrow 00:55:53.825$  and you know we we all have

NOTE Confidence: 0.896039774166667

 $00:55:53.825 \rightarrow 00:55:55.320$  our our ups and downs.

NOTE Confidence: 0.896039774166667

00:55:55.320 --> 00:55:58.520 I think that you know no no matter

- NOTE Confidence: 0.896039774166667
- $00:55:58.520 \rightarrow 00:56:01.912$  how how tough can things can be.
- NOTE Confidence: 0.896039774166667
- 00:56:01.912 --> 00:56:04.184 You know, in in my business,
- NOTE Confidence: 0.896039774166667
- 00:56:04.184 --> 00:56:06.751 you could win big or you can lose
- NOTE Confidence: 0.896039774166667
- $00{:}56{:}06{.}751 \dashrightarrow 00{:}56{:}08{.}917$  big when you're operating on kids
- NOTE Confidence: 0.941657084545455
- $00:56:12.360 \longrightarrow 00:56:14.655$  and you have to be able to to talk
- NOTE Confidence: 0.941657084545455
- $00:56:14.655 \rightarrow 00:56:19.920$  to people about this. You know,
- NOTE Confidence: 0.941657084545455
- $00:56:19.920 \rightarrow 00:56:23.518$  I decided marathon running wasn't for me,
- NOTE Confidence: 0.941657084545455
- $00:56:23.520 \longrightarrow 00:56:25.038$  That I like fly fishing better.
- NOTE Confidence: 0.855438300909091
- 00:56:28.600 --> 00:56:30.055 Awesome. Well, it looks like
- NOTE Confidence: 0.855438300909091
- 00:56:30.055 --> 00:56:31.840 we're just running out of time.
- NOTE Confidence: 0.855438300909091
- $00:56:31.840 \longrightarrow 00:56:34.054$  Want to thank everyone again for
- NOTE Confidence: 0.855438300909091
- $00:56:34.054 \rightarrow 00:56:36.400$  joining us on this talk today.
- NOTE Confidence: 0.855438300909091
- 00:56:36.400 --> 00:56:37.720 And thank you so much again,
- NOTE Confidence: 0.855438300909091
- $00{:}56{:}37{.}720 \dashrightarrow 00{:}56{:}40{.}758$  Doctor Duncan, for your time and for
- NOTE Confidence: 0.855438300909091
- $00{:}56{:}40{.}758 \dashrightarrow 00{:}56{:}43{.}484$  sharing a little bit more about your
- NOTE Confidence: 0.855438300909091

 $00:56:43.484 \rightarrow 00:56:45.878$  life and you know what you've done.

NOTE Confidence: 0.855438300909091

 $00:56:45.880 \longrightarrow 00:56:47.399$  And thank you for those of you

NOTE Confidence: 0.855438300909091

00:56:47.399 - 00:56:48.915 who've joined in all our talks

NOTE Confidence: 0.855438300909091

 $00:56:48.915 \longrightarrow 00:56:49.999$  throughout the school year.

NOTE Confidence: 0.855438300909091

 $00{:}56{:}50{.}000 \dashrightarrow 00{:}56{:}52{.}240$  So thank you, Doctor Duncan once again.

NOTE Confidence: 0.855438300909091

 $00:56:52.240 \longrightarrow 00:56:53.936$  And thank you everyone,

NOTE Confidence: 0.855438300909091

 $00:56:53.936 \longrightarrow 00:56:55.640$  and have a good weekend.

NOTE Confidence: 0.759716741666667

00:56:56.200 --> 00:56:58.996 Thank, thank you, Wilton. Thank you.