

WEBVTT

NOTE duration: "01:01:59.850"

NOTE Confidence: 0.93847656

00:04:07.290 --> 00:04:08.650 Got, like, twenty people on

NOTE Confidence: 0.93847656

00:04:08.650 --> 00:04:09.150 there.

NOTE Confidence: 0.9506836

00:05:38.324 --> 00:05:38.824 Okay.

NOTE Confidence: 0.8394368

00:05:40.404 --> 00:05:41.785 Good afternoon, everyone.

NOTE Confidence: 0.99542236

00:05:44.245 --> 00:05:45.625 I'm here to introduce,

NOTE Confidence: 0.9224243

00:05:46.085 --> 00:05:48.004 doctor Michael Furey, who will

NOTE Confidence: 0.9224243

00:05:48.004 --> 00:05:48.504 be,

NOTE Confidence: 0.93680245

00:05:49.044 --> 00:05:51.544 giving our Yale Cardiovascular Medicine

NOTE Confidence: 0.93680245

00:05:51.604 --> 00:05:52.320 Grand Rounds.

NOTE Confidence: 0.96832275

00:05:53.200 --> 00:05:54.180 He's one of our,

NOTE Confidence: 0.98828125

00:05:55.120 --> 00:05:55.620 excellent

NOTE Confidence: 0.9909668

00:05:56.320 --> 00:05:57.380 graduating fellows.

NOTE Confidence: 0.9854058

00:05:58.000 --> 00:06:00.080 So Mike graduated from Georgetown

NOTE Confidence: 0.9854058

00:06:00.080 --> 00:06:01.460 University School of Medicine,

NOTE Confidence: 0.9357639

00:06:02.080 --> 00:06:03.760 and was fortunately recruited up
NOTE Confidence: 0.9357639

00:06:03.760 --> 00:06:04.740 here in New Haven
NOTE Confidence: 0.9816707

00:06:05.585 --> 00:06:07.264 to do his internal medicine
NOTE Confidence: 0.9816707

00:06:07.264 --> 00:06:08.785 residency with the Yale internal
NOTE Confidence: 0.9816707

00:06:08.785 --> 00:06:10.165 medicine residency program,
NOTE Confidence: 0.998291

00:06:11.025 --> 00:06:12.544 where he was recognized early
NOTE Confidence: 0.998291

00:06:12.544 --> 00:06:13.685 and often for
NOTE Confidence: 0.9973755

00:06:14.225 --> 00:06:15.985 both his clinical excellence and
NOTE Confidence: 0.9973755

00:06:15.985 --> 00:06:17.285 and research excellence.
NOTE Confidence: 0.8985041

00:06:17.710 --> 00:06:19.229 He received the doctor Peggy
NOTE Confidence: 0.8985041

00:06:19.229 --> 00:06:21.150 Bea Award for outstanding clinical
NOTE Confidence: 0.8985041

00:06:21.150 --> 00:06:21.650 teacher.
NOTE Confidence: 0.9751139

00:06:22.190 --> 00:06:23.710 And after completing his internal
NOTE Confidence: 0.9751139

00:06:23.710 --> 00:06:25.229 medicine residency here, went on
NOTE Confidence: 0.9751139

00:06:25.229 --> 00:06:26.370 to do a chief residency.
NOTE Confidence: 0.9934082

00:06:27.229 --> 00:06:28.509 And we were fortunate enough

NOTE Confidence: 0.9934082

00:06:28.509 --> 00:06:29.789 to recruit him here for

NOTE Confidence: 0.9934082

00:06:29.789 --> 00:06:31.089 our cardiology fellowship,

NOTE Confidence: 0.9942183

00:06:31.705 --> 00:06:32.824 where I've had the opportunity

NOTE Confidence: 0.9942183

00:06:32.824 --> 00:06:33.945 to really work closely with

NOTE Confidence: 0.9942183

00:06:33.945 --> 00:06:35.225 Mike. He's worked with a

NOTE Confidence: 0.9942183

00:06:35.225 --> 00:06:36.425 number of our other colleagues

NOTE Confidence: 0.9942183

00:06:36.425 --> 00:06:37.085 as well.

NOTE Confidence: 0.97335815

00:06:37.785 --> 00:06:39.945 He has, an impressive publication

NOTE Confidence: 0.97335815

00:06:39.945 --> 00:06:41.324 record that includes,

NOTE Confidence: 0.92155576

00:06:41.945 --> 00:06:43.384 publications in journals such as

NOTE Confidence: 0.92155576

00:06:43.384 --> 00:06:44.585 Jack Heart Failure and the

NOTE Confidence: 0.92155576

00:06:44.585 --> 00:06:45.805 European Heart Journal.

NOTE Confidence: 0.986084

00:06:46.264 --> 00:06:48.020 And his focus, in terms

NOTE Confidence: 0.986084

00:06:48.020 --> 00:06:49.560 of research has been on

NOTE Confidence: 0.985616

00:06:50.180 --> 00:06:51.480 how to use the electronic

NOTE Confidence: 0.985616

00:06:51.779 --> 00:06:52.900 health record, as well as
NOTE Confidence: 0.985616

00:06:52.900 --> 00:06:54.900 implementation science to improve heart
NOTE Confidence: 0.985616

00:06:54.900 --> 00:06:57.380 failure care, risk prediction, and
NOTE Confidence: 0.985616

00:06:57.380 --> 00:06:59.080 policy for cardiac transplantation.
NOTE Confidence: 0.974435

00:07:00.154 --> 00:07:01.675 I personally had the pleasure
NOTE Confidence: 0.974435

00:07:01.675 --> 00:07:03.435 of watching Mike grow over
NOTE Confidence: 0.974435

00:07:03.435 --> 00:07:04.815 his time during fellowship
NOTE Confidence: 0.8461914

00:07:05.354 --> 00:07:05.854 here,
NOTE Confidence: 0.9270833

00:07:07.675 --> 00:07:09.995 and, he's really become and
NOTE Confidence: 0.9270833

00:07:09.995 --> 00:07:11.995 blossomed into a truly excellent
NOTE Confidence: 0.9270833

00:07:11.995 --> 00:07:13.215 clinician educator.
NOTE Confidence: 0.97854614

00:07:13.860 --> 00:07:15.060 We've worked together both in
NOTE Confidence: 0.97854614

00:07:15.060 --> 00:07:16.440 the CICU and,
NOTE Confidence: 0.9658314

00:07:16.979 --> 00:07:18.260 at the bedside in the
NOTE Confidence: 0.9658314

00:07:18.260 --> 00:07:19.940 clinic. And, I can say
NOTE Confidence: 0.9658314

00:07:19.940 --> 00:07:20.340 that,

NOTE Confidence: 0.98689777

00:07:20.820 --> 00:07:22.500 Mike really is a truly

NOTE Confidence: 0.98689777

00:07:22.500 --> 00:07:23.000 compassionate

NOTE Confidence: 0.98079425

00:07:23.460 --> 00:07:25.139 physician who provides really the

NOTE Confidence: 0.98079425

00:07:25.139 --> 00:07:26.419 highest quality of care to

NOTE Confidence: 0.98079425

00:07:26.419 --> 00:07:27.080 his patients.

NOTE Confidence: 0.99687266

00:07:27.725 --> 00:07:28.845 So I'm looking forward to

NOTE Confidence: 0.99687266

00:07:28.845 --> 00:07:29.965 your talk today, Mike, as

NOTE Confidence: 0.99687266

00:07:29.965 --> 00:07:31.165 well as to, see where

NOTE Confidence: 0.99687266

00:07:31.165 --> 00:07:32.445 your career in cardiology takes

NOTE Confidence: 0.99687266

00:07:32.445 --> 00:07:32.945 you.

NOTE Confidence: 0.97888494

00:07:40.940 --> 00:07:42.139 Thank you so much, doctor

NOTE Confidence: 0.97888494

00:07:42.139 --> 00:07:43.820 Sikand, and for everyone in

NOTE Confidence: 0.97888494

00:07:43.820 --> 00:07:45.020 the department for,

NOTE Confidence: 0.974528

00:07:45.740 --> 00:07:46.780 inviting me to,

NOTE Confidence: 0.92285156

00:07:47.500 --> 00:07:49.260 present at this week's grand

NOTE Confidence: 0.92285156

00:07:49.260 --> 00:07:49.760 rounds.
NOTE Confidence: 0.981829
00:07:50.300 --> 00:07:51.900 My talk is titled bridging
NOTE Confidence: 0.981829
00:07:51.900 --> 00:07:52.560 the gap,
NOTE Confidence: 0.9904785
00:07:52.940 --> 00:07:54.960 equity and access in cardiac
NOTE Confidence: 0.9904785
00:07:55.020 --> 00:07:55.520 transplantation.
NOTE Confidence: 0.9549735
00:07:57.035 --> 00:07:58.495 I don't have any disclosures
NOTE Confidence: 0.9549735
00:07:58.715 --> 00:07:59.455 to report.
NOTE Confidence: 0.9991737
00:08:00.315 --> 00:08:01.915 So for this talk, I'd
NOTE Confidence: 0.9991737
00:08:01.915 --> 00:08:03.275 like to achieve a few
NOTE Confidence: 0.9991737
00:08:03.275 --> 00:08:04.575 different learning objectives.
NOTE Confidence: 0.9883626
00:08:05.435 --> 00:08:06.635 First, I wanna help you
NOTE Confidence: 0.9883626
00:08:06.635 --> 00:08:07.135 understand
NOTE Confidence: 0.996119
00:08:07.675 --> 00:08:09.595 our organ allocation system here
NOTE Confidence: 0.996119
00:08:09.595 --> 00:08:11.340 in the United States and
NOTE Confidence: 0.996119
00:08:11.340 --> 00:08:13.420 how it, has changed clinical
NOTE Confidence: 0.996119
00:08:13.420 --> 00:08:15.020 practice after they made a

NOTE Confidence: 0.996119
00:08:15.020 --> 00:08:17.420 revision to their policies back
NOTE Confidence: 0.996119
00:08:17.420 --> 00:08:18.720 in two thousand eighteen.
NOTE Confidence: 0.9736328
00:08:19.500 --> 00:08:20.240 And second,
NOTE Confidence: 0.9301758
00:08:20.940 --> 00:08:22.240 I wanna show you,
NOTE Confidence: 0.9739583
00:08:22.860 --> 00:08:24.165 a variety of factors that
NOTE Confidence: 0.9739583
00:08:24.165 --> 00:08:25.685 can contribute to a concept
NOTE Confidence: 0.9739583
00:08:25.685 --> 00:08:27.385 known as center level variation
NOTE Confidence: 0.95354354
00:08:27.845 --> 00:08:29.625 and how that can, impact
NOTE Confidence: 0.95354354
00:08:29.685 --> 00:08:30.264 a patient's,
NOTE Confidence: 0.99991864
00:08:31.525 --> 00:08:33.285 overall likelihood of getting a
NOTE Confidence: 0.99991864
00:08:33.285 --> 00:08:33.785 transplant.
NOTE Confidence: 0.99366295
00:08:35.525 --> 00:08:36.645 So to start, I'd like
NOTE Confidence: 0.99366295
00:08:36.645 --> 00:08:38.470 to present a case. This
NOTE Confidence: 0.99366295
00:08:38.470 --> 00:08:39.429 is a fifty two year
NOTE Confidence: 0.99366295
00:08:39.429 --> 00:08:40.390 old who has a history
NOTE Confidence: 0.99366295

00:08:40.390 --> 00:08:41.770 of nonischemic cardiomyopathy
NOTE Confidence: 0.96488446

00:08:42.870 --> 00:08:45.290 with reduced, left ventricular ejection
NOTE Confidence: 0.96488446

00:08:45.429 --> 00:08:45.929 fraction,
NOTE Confidence: 0.9992488

00:08:46.390 --> 00:08:47.350 and he comes to the
NOTE Confidence: 0.9992488

00:08:47.350 --> 00:08:49.350 hospital with progressive shortness of
NOTE Confidence: 0.9992488

00:08:49.350 --> 00:08:50.330 breath and fatigue.
NOTE Confidence: 0.9929199

00:08:51.355 --> 00:08:52.095 He's hypotensive,
NOTE Confidence: 0.9741211

00:08:52.715 --> 00:08:53.215 tachycardic,
NOTE Confidence: 0.9183757

00:08:53.595 --> 00:08:54.095 tachypneic,
NOTE Confidence: 0.7284546

00:08:54.475 --> 00:08:56.415 and hypoxic re requiring
NOTE Confidence: 0.9503784

00:08:56.955 --> 00:08:57.775 non rebreather,
NOTE Confidence: 1

00:08:58.395 --> 00:08:58.895 support.
NOTE Confidence: 0.9541423

00:08:59.595 --> 00:09:01.295 He overall appears unwell.
NOTE Confidence: 0.9984131

00:09:01.595 --> 00:09:02.415 He's diaphoretic
NOTE Confidence: 0.9809163

00:09:02.955 --> 00:09:04.415 with an elevated JVP,
NOTE Confidence: 0.98950195

00:09:04.715 --> 00:09:06.415 cool extremities, and bilateral

NOTE Confidence: 0.9951172

00:09:06.715 --> 00:09:07.020 crackles.

NOTE Confidence: 0.7904369

00:09:09.580 --> 00:09:10.700 His labs are suggested of

NOTE Confidence: 0.7904369

00:09:10.700 --> 00:09:11.840 decreased end organ perfusion,

NOTE Confidence: 0.8625671

00:09:12.460 --> 00:09:14.540 and, ECHO once again shows,

NOTE Confidence: 0.8625671

00:09:14.860 --> 00:09:16.320 severe global hypokinesia.

NOTE Confidence: 0.9692101

00:09:17.420 --> 00:09:18.800 He's admitted to the cardiac

NOTE Confidence: 0.9692101

00:09:18.860 --> 00:09:20.380 intensive care unit where he

NOTE Confidence: 0.9692101

00:09:20.380 --> 00:09:21.440 started on inotropes,

NOTE Confidence: 0.92285156

00:09:23.095 --> 00:09:23.415 and,

NOTE Confidence: 0.99902344

00:09:23.975 --> 00:09:24.475 becomes

NOTE Confidence: 1

00:09:24.855 --> 00:09:26.075 slightly more hypotensive

NOTE Confidence: 0.9856952

00:09:26.535 --> 00:09:27.815 and has slight worsening of

NOTE Confidence: 0.9856952

00:09:27.815 --> 00:09:29.035 his end organ perfusion.

NOTE Confidence: 0.9809723

00:09:29.575 --> 00:09:30.855 He undergoes a right heart

NOTE Confidence: 0.9809723

00:09:30.855 --> 00:09:32.054 cath that shows a reduced

NOTE Confidence: 0.9809723

00:09:32.054 --> 00:09:34.615 cardiac index with elevated filling
NOTE Confidence: 0.9809723

00:09:34.615 --> 00:09:35.115 pressures.
NOTE Confidence: 0.92789716

00:09:36.190 --> 00:09:37.490 Given these findings,
NOTE Confidence: 0.99912107

00:09:37.870 --> 00:09:39.149 the decision is made to
NOTE Confidence: 0.99912107

00:09:39.149 --> 00:09:41.329 start him on mechanical circulatory
NOTE Confidence: 0.9103597

00:09:41.630 --> 00:09:43.790 support, specifically with an Impella
NOTE Confidence: 0.9103597

00:09:43.790 --> 00:09:44.290 device.
NOTE Confidence: 0.97473145

00:09:44.990 --> 00:09:46.350 And the patient is listed
NOTE Confidence: 0.97473145

00:09:46.350 --> 00:09:48.050 for, cardiac transplantation
NOTE Confidence: 0.91796875

00:09:48.829 --> 00:09:50.290 at status two level.
NOTE Confidence: 0.9975586

00:09:51.205 --> 00:09:51.785 He remains
NOTE Confidence: 0.99837244

00:09:52.645 --> 00:09:53.225 on inotropes
NOTE Confidence: 0.95448136

00:09:53.684 --> 00:09:55.385 and, Impella support,
NOTE Confidence: 0.96240234

00:09:56.085 --> 00:09:57.845 for over two weeks where
NOTE Confidence: 0.96240234

00:09:57.845 --> 00:09:59.705 his transplant team submits,
NOTE Confidence: 0.9996745

00:10:00.165 --> 00:10:01.524 an exception for him to

NOTE Confidence: 0.9996745

00:10:01.524 --> 00:10:02.904 remain at that status.

NOTE Confidence: 0.9958496

00:10:03.959 --> 00:10:05.160 A few more weeks go

NOTE Confidence: 0.9958496

00:10:05.160 --> 00:10:05.660 by,

NOTE Confidence: 0.9976562

00:10:06.519 --> 00:10:08.360 and he ultimately receives a

NOTE Confidence: 0.9976562

00:10:08.360 --> 00:10:10.779 donor organ offer coming from

NOTE Confidence: 0.97770184

00:10:11.160 --> 00:10:12.760 around two hundred fifty miles

NOTE Confidence: 0.97770184

00:10:12.760 --> 00:10:13.260 away

NOTE Confidence: 0.95527345

00:10:13.959 --> 00:10:15.559 from New Haven, comes from

NOTE Confidence: 0.95527345

00:10:15.559 --> 00:10:17.820 a hepatitis c positive donor

NOTE Confidence: 0.93688965

00:10:18.384 --> 00:10:19.045 that was,

NOTE Confidence: 0.9684245

00:10:19.904 --> 00:10:22.165 declined by several other transplant

NOTE Confidence: 0.9684245

00:10:22.225 --> 00:10:23.444 centers in the region.

NOTE Confidence: 0.8984375

00:10:24.144 --> 00:10:25.444 And he ultimately undergoes

NOTE Confidence: 0.99641925

00:10:26.065 --> 00:10:27.365 successful heart transplant

NOTE Confidence: 0.99226886

00:10:27.904 --> 00:10:28.884 and does well,

NOTE Confidence: 0.9811198

00:10:29.184 --> 00:10:30.084 in the postoperative
NOTE Confidence: 0.99902344

00:10:30.545 --> 00:10:31.045 course.
NOTE Confidence: 0.99867755

00:10:31.700 --> 00:10:33.220 So I wanna use this
NOTE Confidence: 0.99867755

00:10:33.220 --> 00:10:35.220 case to highlight a few,
NOTE Confidence: 0.99867755

00:10:35.620 --> 00:10:36.600 important factors
NOTE Confidence: 0.98657227

00:10:37.059 --> 00:10:37.540 about,
NOTE Confidence: 0.99938965

00:10:37.940 --> 00:10:40.120 how variable the cardiac transplant
NOTE Confidence: 0.99938965

00:10:40.340 --> 00:10:41.480 process can be.
NOTE Confidence: 0.9986572

00:10:42.740 --> 00:10:44.100 And to do that, I
NOTE Confidence: 0.9986572

00:10:44.100 --> 00:10:45.320 wanna first explore
NOTE Confidence: 1

00:10:45.645 --> 00:10:46.625 a few of the different
NOTE Confidence: 1

00:10:46.684 --> 00:10:47.184 components
NOTE Confidence: 0.98583984

00:10:47.485 --> 00:10:48.304 of the process,
NOTE Confidence: 0.99438477

00:10:48.765 --> 00:10:50.545 the different agencies are involved,
NOTE Confidence: 0.9822998

00:10:50.925 --> 00:10:51.565 and how,
NOTE Confidence: 0.9994141

00:10:52.125 --> 00:10:54.304 they have evolved over time.

NOTE Confidence: 0.9503433

00:10:54.765 --> 00:10:56.205 So the United Network for

NOTE Confidence: 0.9503433

00:10:56.205 --> 00:10:58.045 Organ Sharing also goes by

NOTE Confidence: 0.9503433

00:10:58.045 --> 00:10:58.545 UNOS.

NOTE Confidence: 0.9725749

00:10:58.860 --> 00:10:59.760 It's a nonprofit,

NOTE Confidence: 0.98588866

00:11:00.779 --> 00:11:02.880 organization that helps to oversee,

NOTE Confidence: 0.99759346

00:11:03.420 --> 00:11:05.019 solid organ transplant in the

NOTE Confidence: 0.99759346

00:11:05.019 --> 00:11:05.920 United States.

NOTE Confidence: 0.9988281

00:11:06.300 --> 00:11:07.920 And before it was created,

NOTE Confidence: 0.9994467

00:11:08.380 --> 00:11:10.079 from the mid nineteen fifties

NOTE Confidence: 0.9994467

00:11:10.140 --> 00:11:11.760 to the early nineteen seventies,

NOTE Confidence: 0.99975586

00:11:12.504 --> 00:11:14.365 the individual transplant hospitals

NOTE Confidence: 0.9937744

00:11:15.144 --> 00:11:17.004 and organ procurement organizations

NOTE Confidence: 0.99902344

00:11:17.704 --> 00:11:19.225 would manage all aspects of

NOTE Confidence: 0.99902344

00:11:19.225 --> 00:11:20.365 the organ recovery

NOTE Confidence: 0.9992676

00:11:20.824 --> 00:11:21.644 and transplant.

NOTE Confidence: 0.9986519

00:11:22.345 --> 00:11:24.184 So if an organ was
NOTE Confidence: 0.9986519

00:11:24.184 --> 00:11:25.540 found, it could not be
NOTE Confidence: 0.9986519

00:11:25.540 --> 00:11:27.320 used at a local hospital
NOTE Confidence: 0.9986519

00:11:27.460 --> 00:11:28.820 to the donor. There wasn't
NOTE Confidence: 0.9986519

00:11:28.820 --> 00:11:29.720 really a system,
NOTE Confidence: 0.9995117

00:11:30.340 --> 00:11:31.000 that would
NOTE Confidence: 0.98883927

00:11:31.300 --> 00:11:32.820 allow anyone to find a
NOTE Confidence: 0.98883927

00:11:32.820 --> 00:11:33.880 matching candidate,
NOTE Confidence: 0.984375

00:11:34.500 --> 00:11:35.000 elsewhere.
NOTE Confidence: 0.97494507

00:11:35.300 --> 00:11:36.340 So many of the organs
NOTE Confidence: 0.97494507

00:11:36.340 --> 00:11:37.860 ultimately could not be used
NOTE Confidence: 0.97494507

00:11:37.860 --> 00:11:39.720 because they couldn't find a
NOTE Confidence: 0.97494507

00:11:39.860 --> 00:11:40.360 compatible
NOTE Confidence: 0.90445966

00:11:40.865 --> 00:11:41.845 recipient in time.
NOTE Confidence: 0.999721

00:11:42.625 --> 00:11:44.545 And that changed in nineteen
NOTE Confidence: 0.999721

00:11:44.545 --> 00:11:45.365 seventy seven

NOTE Confidence: 0.9282321

00:11:45.825 --> 00:11:47.825 when, the first computer based

NOTE Confidence: 0.9282321

00:11:47.825 --> 00:11:49.904 organ sys matching system called

NOTE Confidence: 0.9282321

00:11:49.904 --> 00:11:51.125 UNOS was developed,

NOTE Confidence: 0.9136556

00:11:51.505 --> 00:11:52.485 and then congress,

NOTE Confidence: 0.95595706

00:11:52.990 --> 00:11:54.830 in nineteen eighty four passed

NOTE Confidence: 0.95595706

00:11:54.830 --> 00:11:56.850 the National Organ Transplant Act,

NOTE Confidence: 0.9960295

00:11:57.230 --> 00:11:59.330 which established a framework for

NOTE Confidence: 0.9960295

00:11:59.390 --> 00:12:01.470 a national organ recovery and

NOTE Confidence: 0.9960295

00:12:01.470 --> 00:12:03.470 allocation system. And the goal

NOTE Confidence: 0.9960295

00:12:03.470 --> 00:12:04.530 was to help ensure

NOTE Confidence: 0.9987996

00:12:04.955 --> 00:12:06.955 that, the process was carried

NOTE Confidence: 0.9987996

00:12:06.955 --> 00:12:08.075 out in a fair and

NOTE Confidence: 0.9987996

00:12:08.075 --> 00:12:09.135 efficient way

NOTE Confidence: 0.9959717

00:12:09.515 --> 00:12:11.535 and led to equitable distribution

NOTE Confidence: 0.9959717

00:12:11.675 --> 00:12:13.355 of donated organs based on

NOTE Confidence: 0.9959717

00:12:13.355 --> 00:12:14.255 medical criteria.
NOTE Confidence: 0.9891183

00:12:15.675 --> 00:12:17.455 Later in nineteen eighty six,
NOTE Confidence: 0.9891183

00:12:17.675 --> 00:12:18.655 UNOS became
NOTE Confidence: 0.9864909

00:12:19.600 --> 00:12:20.900 under federal contract
NOTE Confidence: 0.9548909

00:12:21.280 --> 00:12:23.040 to operate both, the organ
NOTE Confidence: 0.9548909

00:12:23.040 --> 00:12:25.540 procurement and transplantation network, OPTN,
NOTE Confidence: 0.99166435

00:12:26.080 --> 00:12:28.080 and the scientific registry of
NOTE Confidence: 0.99166435

00:12:28.080 --> 00:12:29.300 transplant recipients.
NOTE Confidence: 0.97202146

00:12:29.920 --> 00:12:32.020 And UNOS works by ranking
NOTE Confidence: 0.97202146

00:12:32.240 --> 00:12:34.485 transplant candidates according to their
NOTE Confidence: 1

00:12:34.885 --> 00:12:35.865 medical urgency.
NOTE Confidence: 0.99776787

00:12:36.325 --> 00:12:37.445 It started as a two
NOTE Confidence: 0.99776787

00:12:37.445 --> 00:12:38.265 tier system,
NOTE Confidence: 0.97387695

00:12:38.964 --> 00:12:40.565 later developed into a three
NOTE Confidence: 0.97387695

00:12:40.565 --> 00:12:41.385 tier system,
NOTE Confidence: 0.98576474

00:12:42.005 --> 00:12:43.524 most recently was changed to

NOTE Confidence: 0.98576474

00:12:43.524 --> 00:12:45.285 a six tier system in

NOTE Confidence: 0.98576474

00:12:45.285 --> 00:12:46.345 two thousand eighteen.

NOTE Confidence: 0.9605306

00:12:47.240 --> 00:12:48.440 And UNOS created,

NOTE Confidence: 0.9891968

00:12:48.760 --> 00:12:51.079 different regions across the the

NOTE Confidence: 0.9891968

00:12:51.079 --> 00:12:53.639 United States based on, patient

NOTE Confidence: 0.9891968

00:12:53.639 --> 00:12:55.720 referral patterns and organ sharing

NOTE Confidence: 0.9891968

00:12:55.720 --> 00:12:56.220 patterns.

NOTE Confidence: 0.97927517

00:12:57.320 --> 00:12:59.160 The state of Connecticut, it's

NOTE Confidence: 0.97927517

00:12:59.160 --> 00:13:00.700 located in region one,

NOTE Confidence: 0.97161865

00:13:01.184 --> 00:13:02.465 with the other New England

NOTE Confidence: 0.97161865

00:13:02.465 --> 00:13:03.605 states like Massachusetts,

NOTE Confidence: 0.9906142

00:13:03.905 --> 00:13:06.245 Rhode Island, New Hampshire, Maine,

NOTE Confidence: 0.9906142

00:13:06.304 --> 00:13:07.845 and part of, Vermont.

NOTE Confidence: 0.9983995

00:13:09.265 --> 00:13:10.645 So how does the system

NOTE Confidence: 0.9983995

00:13:10.705 --> 00:13:12.405 work? Well, once again,

NOTE Confidence: 0.9938965

00:13:12.785 --> 00:13:13.650 UNOS ranks
NOTE Confidence: 0.99853516

00:13:14.130 --> 00:13:16.130 transplant candidates by their medical
NOTE Confidence: 0.99853516

00:13:16.130 --> 00:13:16.630 urgency
NOTE Confidence: 0.9868652

00:13:17.330 --> 00:13:18.790 and aims to match them,
NOTE Confidence: 0.97734374

00:13:19.650 --> 00:13:21.410 by other medical factors like
NOTE Confidence: 0.97734374

00:13:21.410 --> 00:13:23.330 blood type, height, weight with,
NOTE Confidence: 0.99433595

00:13:23.890 --> 00:13:25.830 donor organs that become available.
NOTE Confidence: 0.9964425

00:13:26.585 --> 00:13:28.205 And then each donor organ
NOTE Confidence: 0.9964425

00:13:28.345 --> 00:13:29.625 has a rank order match
NOTE Confidence: 0.9964425

00:13:29.625 --> 00:13:31.165 list that's offered to
NOTE Confidence: 0.974823

00:13:31.865 --> 00:13:34.665 prospective transplant candidates at centers
NOTE Confidence: 0.974823

00:13:34.665 --> 00:13:35.965 across, the country.
NOTE Confidence: 0.94986975

00:13:36.905 --> 00:13:37.965 Generally prioritizes
NOTE Confidence: 0.90270996

00:13:38.425 --> 00:13:39.325 local candidates,
NOTE Confidence: 0.9958496

00:13:40.425 --> 00:13:41.785 and once an offer is
NOTE Confidence: 0.9958496

00:13:41.785 --> 00:13:44.050 made, each transplant center has,

NOTE Confidence: 0.999471
00:13:44.429 --> 00:13:46.030 the ability to accept or
NOTE Confidence: 0.999471
00:13:46.030 --> 00:13:47.630 reject that offer at their
NOTE Confidence: 0.999471
00:13:47.630 --> 00:13:48.450 own discretion.
NOTE Confidence: 0.9951172
00:13:50.429 --> 00:13:51.970 In two thousand and eighteen,
NOTE Confidence: 0.9720459
00:13:52.429 --> 00:13:53.410 UNOS implemented
NOTE Confidence: 0.9992676
00:13:53.950 --> 00:13:55.330 this new six tier
NOTE Confidence: 0.9889323
00:13:55.785 --> 00:13:57.785 allocation policy that replaced the
NOTE Confidence: 0.9889323
00:13:57.785 --> 00:13:59.245 old three tier system.
NOTE Confidence: 0.9989769
00:13:59.785 --> 00:14:00.904 And this was done to
NOTE Confidence: 0.9989769
00:14:00.904 --> 00:14:02.125 better stratify,
NOTE Confidence: 0.9876709
00:14:02.985 --> 00:14:04.045 transplant candidates,
NOTE Confidence: 0.9995117
00:14:04.825 --> 00:14:05.485 by their
NOTE Confidence: 0.910614
00:14:06.024 --> 00:14:07.590 mortality on the wait list,
NOTE Confidence: 0.910614
00:14:07.830 --> 00:14:08.730 helped to shorten,
NOTE Confidence: 0.9923619
00:14:09.110 --> 00:14:10.790 wait list times for the
NOTE Confidence: 0.9923619

00:14:10.790 --> 00:14:11.770 sickest patients,
NOTE Confidence: 0.97918147

00:14:12.309 --> 00:14:14.250 tried to add objective criteria
NOTE Confidence: 0.97918147

00:14:14.309 --> 00:14:16.230 for a variety of, cardiac
NOTE Confidence: 0.97918147

00:14:16.230 --> 00:14:16.730 conditions,
NOTE Confidence: 0.9888347

00:14:17.510 --> 00:14:18.970 and then it further broadened,
NOTE Confidence: 0.97454834

00:14:19.590 --> 00:14:21.530 sharing of, donor organs
NOTE Confidence: 0.9267578

00:14:21.855 --> 00:14:22.834 to a geographic
NOTE Confidence: 0.9684082

00:14:23.454 --> 00:14:25.714 radius of, five hundred miles.
NOTE Confidence: 0.97270507

00:14:26.495 --> 00:14:28.894 Now status, one patients are
NOTE Confidence: 0.97270507

00:14:28.894 --> 00:14:30.755 considered the highest medical priority,
NOTE Confidence: 0.9956752

00:14:31.214 --> 00:14:32.894 while statuses two through six
NOTE Confidence: 0.9956752

00:14:32.894 --> 00:14:33.555 are considered
NOTE Confidence: 0.78255206

00:14:34.014 --> 00:14:35.235 lower medical priority,
NOTE Confidence: 0.985063

00:14:35.695 --> 00:14:37.960 in descending order. So if
NOTE Confidence: 0.985063

00:14:37.960 --> 00:14:39.880 a patient is, placed on
NOTE Confidence: 0.985063

00:14:39.880 --> 00:14:40.380 ECMO

NOTE Confidence: 0.9895717
00:14:40.840 --> 00:14:43.580 or, has a mechanical circulatory
NOTE Confidence: 0.9895717
00:14:43.800 --> 00:14:44.620 support device
NOTE Confidence: 0.97567135
00:14:45.000 --> 00:14:47.020 and has a significant arrhythmia,
NOTE Confidence: 0.97567135
00:14:47.320 --> 00:14:48.680 they are considered the highest
NOTE Confidence: 0.97567135
00:14:48.680 --> 00:14:49.580 priority listing.
NOTE Confidence: 0.8975586
00:14:50.605 --> 00:14:52.785 Without arrhythmia, m c MCS
NOTE Confidence: 0.8975586
00:14:52.925 --> 00:14:53.425 devices
NOTE Confidence: 0.88342285
00:14:53.725 --> 00:14:55.565 can achieve a status two
NOTE Confidence: 0.88342285
00:14:55.565 --> 00:14:55.965 listing.
NOTE Confidence: 0.98095703
00:14:57.165 --> 00:14:57.665 Notably,
NOTE Confidence: 0.9088135
00:14:58.205 --> 00:15:00.545 patients with durable LVADs
NOTE Confidence: 0.9382324
00:15:01.085 --> 00:15:02.705 were now status three,
NOTE Confidence: 0.9766671
00:15:03.300 --> 00:15:04.740 under the new system and
NOTE Confidence: 0.9766671
00:15:04.740 --> 00:15:07.000 previously had a higher designation
NOTE Confidence: 0.9766671
00:15:07.300 --> 00:15:08.600 in the older system.
NOTE Confidence: 0.99713546

00:15:09.220 --> 00:15:11.960 Similarly, patients on IV inotropes

NOTE Confidence: 0.88932294

00:15:12.420 --> 00:15:14.120 were, previously considered,

NOTE Confidence: 0.9983259

00:15:15.035 --> 00:15:16.635 high medical urgency under the

NOTE Confidence: 0.9983259

00:15:16.635 --> 00:15:17.455 old system

NOTE Confidence: 0.94177246

00:15:17.835 --> 00:15:19.775 have, gone down to,

NOTE Confidence: 0.9984741

00:15:20.315 --> 00:15:21.995 status three or four in

NOTE Confidence: 0.9984741

00:15:21.995 --> 00:15:22.895 the new system.

NOTE Confidence: 0.9758843

00:15:23.595 --> 00:15:24.795 And it's important to note

NOTE Confidence: 0.9758843

00:15:24.795 --> 00:15:26.575 that listing a patient,

NOTE Confidence: 0.96988934

00:15:27.595 --> 00:15:29.959 requires that our great transplant

NOTE Confidence: 0.96988934

00:15:30.019 --> 00:15:30.519 teams,

NOTE Confidence: 0.74576825

00:15:31.459 --> 00:15:31.959 rejustify

NOTE Confidence: 0.99365234

00:15:32.500 --> 00:15:34.100 the patient's listing every two

NOTE Confidence: 0.99365234

00:15:34.100 --> 00:15:34.600 weeks.

NOTE Confidence: 0.979541

00:15:34.980 --> 00:15:36.279 So they need to redemonstrate,

NOTE Confidence: 0.9916992

00:15:37.220 --> 00:15:38.660 every two weeks that the

NOTE Confidence: 0.9916992
00:15:38.660 --> 00:15:39.639 patient requires
NOTE Confidence: 0.9916382
00:15:39.940 --> 00:15:42.040 an MCS device, inotropes,
NOTE Confidence: 0.9730882
00:15:42.675 --> 00:15:44.595 whatever their, level of support
NOTE Confidence: 0.9730882
00:15:44.595 --> 00:15:46.035 is, and that they're not,
NOTE Confidence: 0.9730882
00:15:46.435 --> 00:15:47.495 able to receive,
NOTE Confidence: 0.9958334
00:15:48.435 --> 00:15:50.375 an LVAD. And that's because
NOTE Confidence: 0.988878
00:15:50.835 --> 00:15:52.115 the two long term treatment
NOTE Confidence: 0.988878
00:15:52.115 --> 00:15:53.575 options we have for,
NOTE Confidence: 0.9753069
00:15:54.115 --> 00:15:55.795 end stage heart failure are
NOTE Confidence: 0.9753069
00:15:55.795 --> 00:15:56.535 heart transplant
NOTE Confidence: 0.9629449
00:15:57.080 --> 00:15:58.780 and, durable LVAD.
NOTE Confidence: 0.9921875
00:16:00.600 --> 00:16:01.080 So,
NOTE Confidence: 0.99609375
00:16:01.560 --> 00:16:03.180 this two thousand eighteen
NOTE Confidence: 0.97405136
00:16:03.560 --> 00:16:05.720 policy change had a very
NOTE Confidence: 0.97405136
00:16:05.720 --> 00:16:06.860 significant impact
NOTE Confidence: 0.9406738

00:16:07.240 --> 00:16:07.740 on,
NOTE Confidence: 0.9867188

00:16:08.280 --> 00:16:10.940 clinical practice patterns, which I'll
NOTE Confidence: 0.9506836

00:16:11.654 --> 00:16:12.154 explore,
NOTE Confidence: 0.998291

00:16:12.535 --> 00:16:13.894 in detail through the rest
NOTE Confidence: 0.998291

00:16:13.894 --> 00:16:14.795 of the talk.
NOTE Confidence: 0.98409015

00:16:16.214 --> 00:16:17.495 This was a study that
NOTE Confidence: 0.98409015

00:16:17.495 --> 00:16:19.095 was led by doctor Clancy
NOTE Confidence: 0.98409015

00:16:19.095 --> 00:16:19.915 Mullen here,
NOTE Confidence: 0.9507446

00:16:20.454 --> 00:16:21.975 of cardiac surgery as well
NOTE Confidence: 0.9507446

00:16:21.975 --> 00:16:23.334 as doctor Ahmad in in
NOTE Confidence: 0.9507446

00:16:23.334 --> 00:16:25.095 his heart failure outcomes research
NOTE Confidence: 0.9507446

00:16:25.095 --> 00:16:25.595 group.
NOTE Confidence: 0.97436523

00:16:26.190 --> 00:16:26.690 And,
NOTE Confidence: 0.96432835

00:16:27.310 --> 00:16:29.070 it showed that pretty early
NOTE Confidence: 0.96432835

00:16:29.070 --> 00:16:30.690 on, even after this,
NOTE Confidence: 0.9793854

00:16:31.390 --> 00:16:33.150 policy change, that the use

NOTE Confidence: 0.9793854
00:16:33.150 --> 00:16:34.370 of durable LVADs,
NOTE Confidence: 0.99161786
00:16:35.070 --> 00:16:36.450 declined pretty substantially.
NOTE Confidence: 0.98535156
00:16:36.990 --> 00:16:38.350 And you might infer based
NOTE Confidence: 0.98535156
00:16:38.350 --> 00:16:39.795 on what I I showed
NOTE Confidence: 0.98535156
00:16:39.795 --> 00:16:41.255 you a few slides ago
NOTE Confidence: 0.98535156
00:16:41.315 --> 00:16:43.235 that this might be because
NOTE Confidence: 0.98535156
00:16:43.235 --> 00:16:43.735 of
NOTE Confidence: 0.8210449
00:16:44.435 --> 00:16:45.095 a changing
NOTE Confidence: 0.99869794
00:16:45.475 --> 00:16:46.935 MCS support strategy
NOTE Confidence: 0.99316406
00:16:47.395 --> 00:16:48.695 that prioritizes
NOTE Confidence: 0.99468994
00:16:49.475 --> 00:16:51.095 patients who have temporary,
NOTE Confidence: 0.96362305
00:16:51.635 --> 00:16:52.775 MCS devices,
NOTE Confidence: 0.9917214
00:16:53.560 --> 00:16:55.160 who get higher priority status
NOTE Confidence: 0.9917214
00:16:55.160 --> 00:16:56.920 in the new system compared
NOTE Confidence: 0.9917214
00:16:56.920 --> 00:16:57.420 with,
NOTE Confidence: 0.9494141

00:16:57.800 --> 00:17:00.199 durable LVAD devices, which were,
NOTE Confidence: 0.9319119

00:17:01.879 --> 00:17:03.480 a lower priority in the
NOTE Confidence: 0.9319119

00:17:03.480 --> 00:17:05.340 the organ allocation system.
NOTE Confidence: 1

00:17:06.255 --> 00:17:07.715 And this has been supported
NOTE Confidence: 0.98832196

00:17:08.095 --> 00:17:09.375 by a few other studies
NOTE Confidence: 0.98832196

00:17:09.375 --> 00:17:10.975 that found that balloon pump
NOTE Confidence: 0.98832196

00:17:10.975 --> 00:17:12.734 use as well as ECMO
NOTE Confidence: 0.98832196

00:17:12.734 --> 00:17:13.875 use have increased,
NOTE Confidence: 0.9890137

00:17:15.055 --> 00:17:15.535 since,
NOTE Confidence: 0.9867893

00:17:15.935 --> 00:17:18.335 the policy change, which, those
NOTE Confidence: 0.9867893

00:17:18.335 --> 00:17:19.555 two, as I mentioned,
NOTE Confidence: 0.9979384

00:17:19.950 --> 00:17:21.789 now have higher priority status
NOTE Confidence: 0.9979384

00:17:21.789 --> 00:17:23.090 under the new system.
NOTE Confidence: 0.9572754

00:17:24.990 --> 00:17:26.210 So with all these,
NOTE Confidence: 0.99902344

00:17:26.830 --> 00:17:29.090 potential changes in clinical behavior,
NOTE Confidence: 0.9837891

00:17:29.710 --> 00:17:31.070 it, you know, raised questions

NOTE Confidence: 0.9837891
00:17:31.070 --> 00:17:32.845 in my mind how much,
NOTE Confidence: 1
00:17:33.465 --> 00:17:33.965 subjectivity
NOTE Confidence: 0.98769534
00:17:34.505 --> 00:17:36.365 there ultimately is in this,
NOTE Confidence: 0.9995117
00:17:36.825 --> 00:17:37.885 cardiac transplant
NOTE Confidence: 0.9941406
00:17:38.185 --> 00:17:38.685 process.
NOTE Confidence: 0.99541014
00:17:39.065 --> 00:17:40.365 We have all of these
NOTE Confidence: 0.9776722
00:17:40.905 --> 00:17:42.665 objective criteria that I showed
NOTE Confidence: 0.9776722
00:17:42.665 --> 00:17:44.105 you in the the different
NOTE Confidence: 0.9776722
00:17:44.105 --> 00:17:44.605 tiers,
NOTE Confidence: 0.99742293
00:17:44.905 --> 00:17:46.240 but, you know, there seems
NOTE Confidence: 0.99742293
00:17:46.240 --> 00:17:47.119 to be some sort of
NOTE Confidence: 0.99742293
00:17:47.119 --> 00:17:48.260 inherent subjectivity,
NOTE Confidence: 0.9376221
00:17:49.600 --> 00:17:50.660 that ultimately,
NOTE Confidence: 0.993571
00:17:51.119 --> 00:17:52.320 in my view, has a
NOTE Confidence: 0.993571
00:17:52.320 --> 00:17:54.580 tangible impact on, equitable
NOTE Confidence: 0.9980469

00:17:54.880 --> 00:17:56.020 organ allocation.
NOTE Confidence: 0.988444

00:17:59.035 --> 00:18:00.715 And the primary drivers of
NOTE Confidence: 0.988444

00:18:00.715 --> 00:18:01.535 this subjectivity,
NOTE Confidence: 0.9788086

00:18:03.035 --> 00:18:05.115 are factors that contribute to
NOTE Confidence: 0.9788086

00:18:05.115 --> 00:18:07.215 something called center level variation.
NOTE Confidence: 0.978411

00:18:09.515 --> 00:18:11.295 There are four main, components
NOTE Confidence: 0.978411

00:18:11.515 --> 00:18:12.175 to this,
NOTE Confidence: 0.97058105

00:18:12.660 --> 00:18:14.180 that I'll I'll go through
NOTE Confidence: 0.97058105

00:18:14.180 --> 00:18:15.160 one by one.
NOTE Confidence: 0.998291

00:18:15.700 --> 00:18:16.760 Bridging strategy,
NOTE Confidence: 0.9692383

00:18:17.300 --> 00:18:18.440 listing practices,
NOTE Confidence: 0.9921875

00:18:19.300 --> 00:18:19.800 exception,
NOTE Confidence: 0.98535156

00:18:20.580 --> 00:18:21.080 utilization,
NOTE Confidence: 0.99975586

00:18:21.700 --> 00:18:23.560 and donor organ acceptance.
NOTE Confidence: 0.9533203

00:18:25.695 --> 00:18:27.955 So starting with, bridging strategy,
NOTE Confidence: 0.97457683

00:18:28.575 --> 00:18:30.494 I started talking about how

NOTE Confidence: 0.97457683

00:18:30.494 --> 00:18:32.494 there has been, some changes

NOTE Confidence: 0.97457683

00:18:32.494 --> 00:18:33.775 to how we use MCS

NOTE Confidence: 0.97457683

00:18:33.775 --> 00:18:35.795 devices since two thousand eighteen.

NOTE Confidence: 0.97457683

00:18:36.015 --> 00:18:37.535 And this has been, borne

NOTE Confidence: 0.97457683

00:18:37.535 --> 00:18:39.350 out both in national trends

NOTE Confidence: 0.9160156

00:18:39.650 --> 00:18:40.630 as well as,

NOTE Confidence: 1

00:18:41.650 --> 00:18:43.270 differences between individual

NOTE Confidence: 0.9975586

00:18:43.730 --> 00:18:44.710 transplant centers.

NOTE Confidence: 0.97542316

00:18:45.330 --> 00:18:47.410 Balloon pumps ultimately remain the

NOTE Confidence: 0.97542316

00:18:47.410 --> 00:18:49.030 most common bridging strategy

NOTE Confidence: 0.9457311

00:18:49.490 --> 00:18:51.650 followed by Impella devices and

NOTE Confidence: 0.9457311

00:18:51.650 --> 00:18:52.390 then ECMO.

NOTE Confidence: 0.9889323

00:18:53.325 --> 00:18:53.825 ECMO,

NOTE Confidence: 0.9969308

00:18:54.524 --> 00:18:56.205 gives patients the highest likelihood

NOTE Confidence: 0.9969308

00:18:56.205 --> 00:18:56.945 of transplant,

NOTE Confidence: 0.98451453

00:18:57.484 --> 00:18:58.765 but it also carries the
NOTE Confidence: 0.98451453

00:18:58.765 --> 00:18:59.744 highest mortality,
NOTE Confidence: 0.9843187

00:19:00.524 --> 00:19:01.984 rate on the wait list.
NOTE Confidence: 0.9843187

00:19:02.205 --> 00:19:03.325 But there are also other,
NOTE Confidence: 0.9843187

00:19:03.645 --> 00:19:04.945 device related complications
NOTE Confidence: 0.9687278

00:19:05.725 --> 00:19:07.984 that, patients may incur while
NOTE Confidence: 0.9687278

00:19:08.170 --> 00:19:09.770 awaiting transplant even if they're
NOTE Confidence: 0.9687278

00:19:09.770 --> 00:19:10.270 relatively,
NOTE Confidence: 0.9845215

00:19:11.210 --> 00:19:12.670 stable on the wait list.
NOTE Confidence: 0.99542236

00:19:14.090 --> 00:19:15.470 Bottom line is that,
NOTE Confidence: 1

00:19:15.850 --> 00:19:17.210 the choice of the bridging
NOTE Confidence: 1

00:19:17.210 --> 00:19:17.710 strategy
NOTE Confidence: 0.9747838

00:19:18.330 --> 00:19:19.850 is not just a choice
NOTE Confidence: 0.9747838

00:19:19.850 --> 00:19:21.210 about how we're treating the
NOTE Confidence: 0.9747838

00:19:21.210 --> 00:19:22.990 patient, but also impacts
NOTE Confidence: 0.9986683

00:19:23.315 --> 00:19:24.434 how likely it is for

NOTE Confidence: 0.9986683

00:19:24.434 --> 00:19:26.275 them to ultimately get a

NOTE Confidence: 0.9986683

00:19:26.275 --> 00:19:26.775 transplant.

NOTE Confidence: 0.99622226

00:19:28.195 --> 00:19:29.475 So this is some data

NOTE Confidence: 0.99622226

00:19:29.475 --> 00:19:30.755 from a twenty twenty two

NOTE Confidence: 0.99622226

00:19:30.755 --> 00:19:32.595 study. It showed that balloon

NOTE Confidence: 0.99622226

00:19:32.595 --> 00:19:34.054 pump and ECMO utilization

NOTE Confidence: 0.9755162

00:19:35.075 --> 00:19:37.315 have, increased significantly since two

NOTE Confidence: 0.9755162

00:19:37.315 --> 00:19:38.215 thousand eighteen,

NOTE Confidence: 0.9815674

00:19:39.310 --> 00:19:40.830 whereas the use of durable

NOTE Confidence: 0.9815674

00:19:40.830 --> 00:19:42.450 LVADs has decreased.

NOTE Confidence: 0.9694336

00:19:43.550 --> 00:19:45.090 And the same study took,

NOTE Confidence: 0.9983317

00:19:45.869 --> 00:19:47.230 their findings a little bit

NOTE Confidence: 0.9983317

00:19:47.230 --> 00:19:47.730 further.

NOTE Confidence: 0.9980469

00:19:48.590 --> 00:19:49.810 They looked at variation

NOTE Confidence: 0.99762833

00:19:50.510 --> 00:19:52.109 between centers and how they

NOTE Confidence: 0.99762833

00:19:52.109 --> 00:19:53.250 use mechanical
NOTE Confidence: 0.9880371

00:19:54.434 --> 00:19:55.654 circulatory support.
NOTE Confidence: 0.9980469

00:19:56.674 --> 00:19:58.375 Each bar in this graph
NOTE Confidence: 0.9678955

00:19:58.835 --> 00:20:01.394 reference represents an individual transplant
NOTE Confidence: 0.9678955

00:20:01.394 --> 00:20:01.894 center,
NOTE Confidence: 0.9910156

00:20:02.514 --> 00:20:04.134 and how it's been using,
NOTE Confidence: 0.9951172

00:20:04.994 --> 00:20:05.494 MCS.
NOTE Confidence: 0.9791593

00:20:06.380 --> 00:20:07.580 And you can see that,
NOTE Confidence: 0.9791593

00:20:07.900 --> 00:20:09.260 while some centers have a
NOTE Confidence: 0.9791593

00:20:09.260 --> 00:20:09.760 relatively
NOTE Confidence: 0.9279785

00:20:10.060 --> 00:20:10.560 low,
NOTE Confidence: 0.99902344

00:20:11.180 --> 00:20:11.680 proportion
NOTE Confidence: 0.99100167

00:20:11.980 --> 00:20:13.180 towards the left side of
NOTE Confidence: 0.99100167

00:20:13.180 --> 00:20:13.840 the graph,
NOTE Confidence: 0.95983887

00:20:14.300 --> 00:20:15.820 others are nearly using,
NOTE Confidence: 0.9810927

00:20:16.220 --> 00:20:18.380 mechanical circulatory support a hundred

NOTE Confidence: 0.9810927
00:20:18.380 --> 00:20:19.520 percent of the time,
NOTE Confidence: 0.99172634
00:20:20.305 --> 00:20:21.585 for their patients that get
NOTE Confidence: 0.99172634
00:20:21.585 --> 00:20:22.085 transplanted.
NOTE Confidence: 0.9895996
00:20:23.425 --> 00:20:25.285 The authors also found that,
NOTE Confidence: 0.98461914
00:20:25.665 --> 00:20:26.405 the number,
NOTE Confidence: 0.8059082
00:20:27.425 --> 00:20:28.465 the the,
NOTE Confidence: 0.73779297
00:20:29.145 --> 00:20:29.645 the,
NOTE Confidence: 0.90063477
00:20:30.065 --> 00:20:31.505 the use of MCS was
NOTE Confidence: 0.90063477
00:20:31.505 --> 00:20:32.625 associated with,
NOTE Confidence: 0.99853516
00:20:33.025 --> 00:20:34.645 overall number of transplants
NOTE Confidence: 0.96972656
00:20:35.460 --> 00:20:35.960 performed,
NOTE Confidence: 0.9724121
00:20:36.740 --> 00:20:37.640 at that center,
NOTE Confidence: 0.93188477
00:20:38.179 --> 00:20:38.660 which,
NOTE Confidence: 0.9824219
00:20:39.059 --> 00:20:40.119 suggested that,
NOTE Confidence: 0.9998169
00:20:41.059 --> 00:20:42.580 you know, we're making changes
NOTE Confidence: 0.9998169

00:20:42.580 --> 00:20:43.720 in our clinical
NOTE Confidence: 0.95947266

00:20:44.100 --> 00:20:45.000 decision making,
NOTE Confidence: 0.9914551

00:20:45.700 --> 00:20:46.900 as to the support that
NOTE Confidence: 0.9914551

00:20:46.900 --> 00:20:47.640 we're using,
NOTE Confidence: 0.94226074

00:20:48.179 --> 00:20:49.799 rather than changes in,
NOTE Confidence: 0.99053955

00:20:50.325 --> 00:20:52.265 patient demographics or patient,
NOTE Confidence: 0.96761066

00:20:52.804 --> 00:20:53.304 acuity.
NOTE Confidence: 0.9836914

00:20:53.605 --> 00:20:55.385 And, ultimately, this can have,
NOTE Confidence: 0.9836914

00:20:55.684 --> 00:20:57.845 an impact on equitable access
NOTE Confidence: 0.9836914

00:20:57.845 --> 00:20:59.705 to transplant for some patients.
NOTE Confidence: 0.9918213

00:21:01.684 --> 00:21:02.244 So now,
NOTE Confidence: 0.99468523

00:21:02.645 --> 00:21:03.684 I'd like to talk about
NOTE Confidence: 0.99468523

00:21:03.684 --> 00:21:05.400 listing behavior and how that
NOTE Confidence: 0.99468523

00:21:05.400 --> 00:21:06.380 can also be,
NOTE Confidence: 0.9716797

00:21:06.760 --> 00:21:07.480 a major,
NOTE Confidence: 0.99759346

00:21:07.960 --> 00:21:09.720 determinant of a patient's access

NOTE Confidence: 0.99759346
00:21:09.720 --> 00:21:10.460 to transplant.
NOTE Confidence: 0.98136395
00:21:11.080 --> 00:21:13.160 So many different transplant centers
NOTE Confidence: 0.98136395
00:21:13.160 --> 00:21:13.660 have,
NOTE Confidence: 0.9995117
00:21:14.040 --> 00:21:15.020 varying thresholds
NOTE Confidence: 0.99902344
00:21:15.560 --> 00:21:16.040 for,
NOTE Confidence: 0.98309326
00:21:16.600 --> 00:21:18.060 you know, listing patients,
NOTE Confidence: 0.99072266
00:21:18.705 --> 00:21:20.304 whether they're listing them very
NOTE Confidence: 0.99072266
00:21:20.304 --> 00:21:21.845 early on while they're relatively
NOTE Confidence: 0.99072266
00:21:21.984 --> 00:21:22.484 stable
NOTE Confidence: 0.95369464
00:21:22.945 --> 00:21:24.705 or, when they've progressed to
NOTE Confidence: 0.95369464
00:21:24.705 --> 00:21:26.244 a more acute status.
NOTE Confidence: 0.9978841
00:21:28.544 --> 00:21:29.585 They also need to make
NOTE Confidence: 0.9978841
00:21:29.585 --> 00:21:30.085 decisions
NOTE Confidence: 0.99428713
00:21:30.544 --> 00:21:32.164 about, you know, using inotropes,
NOTE Confidence: 0.9911024
00:21:32.544 --> 00:21:33.924 MCS, or ECMO.
NOTE Confidence: 0.98935544

00:21:34.650 --> 00:21:36.190 And since two thousand eighteen,
NOTE Confidence: 0.94346786

00:21:36.810 --> 00:21:38.650 it's been observed that higher
NOTE Confidence: 0.94346786

00:21:38.650 --> 00:21:40.510 priority listings have increased
NOTE Confidence: 0.98999023

00:21:41.050 --> 00:21:41.550 despite,
NOTE Confidence: 0.9995117

00:21:42.330 --> 00:21:43.850 you know, the clinical status
NOTE Confidence: 0.9995117

00:21:43.850 --> 00:21:46.430 of patients remaining relatively stable.
NOTE Confidence: 0.98749465

00:21:48.575 --> 00:21:50.895 Another facet that's, important to
NOTE Confidence: 0.98749465

00:21:50.895 --> 00:21:51.395 mention
NOTE Confidence: 0.99334717

00:21:51.695 --> 00:21:53.215 is that each center has
NOTE Confidence: 0.99334717

00:21:53.215 --> 00:21:54.275 its own policies
NOTE Confidence: 0.98579913

00:21:55.055 --> 00:21:57.295 for even listing patients for
NOTE Confidence: 0.98579913

00:21:57.295 --> 00:21:57.795 transplant.
NOTE Confidence: 0.9996745

00:21:58.735 --> 00:21:59.795 They might only
NOTE Confidence: 0.99365234

00:22:00.390 --> 00:22:01.830 opt to list candidates who
NOTE Confidence: 0.99365234

00:22:01.830 --> 00:22:03.190 are younger than a certain
NOTE Confidence: 0.99365234

00:22:03.190 --> 00:22:03.930 age cutoff

NOTE Confidence: 0.97440594
00:22:04.470 --> 00:22:05.770 or have varying leniency,
NOTE Confidence: 0.95617676
00:22:07.109 --> 00:22:07.750 in their,
NOTE Confidence: 0.93188477
00:22:08.150 --> 00:22:09.590 practice to list the patient
NOTE Confidence: 0.93188477
00:22:09.590 --> 00:22:10.730 of a certain BMI,
NOTE Confidence: 0.9980469
00:22:11.510 --> 00:22:11.925 who have
NOTE Confidence: 0.91552734
00:22:12.565 --> 00:22:14.265 a history of substance use,
NOTE Confidence: 0.7213542
00:22:14.965 --> 00:22:16.025 some up suboptimal
NOTE Confidence: 0.9995117
00:22:16.325 --> 00:22:17.305 social support
NOTE Confidence: 0.7507324
00:22:17.765 --> 00:22:18.165 or,
NOTE Confidence: 0.84887695
00:22:18.565 --> 00:22:19.045 others,
NOTE Confidence: 0.99869794
00:22:19.845 --> 00:22:20.345 psychosocial
NOTE Confidence: 0.99658203
00:22:20.725 --> 00:22:21.225 issues.
NOTE Confidence: 0.9944661
00:22:23.205 --> 00:22:24.265 So this graph,
NOTE Confidence: 0.9995117
00:22:24.725 --> 00:22:25.785 depicts individual
NOTE Confidence: 0.88779294
00:22:26.960 --> 00:22:29.619 transplant centers each represented by,
NOTE Confidence: 0.982666

00:22:30.240 --> 00:22:30.980 a dot,
NOTE Confidence: 0.9995117

00:22:31.520 --> 00:22:33.200 and their probability of listing
NOTE Confidence: 0.9995117

00:22:33.200 --> 00:22:33.700 patients
NOTE Confidence: 0.91696507

00:22:34.160 --> 00:22:35.840 as a high priority, either
NOTE Confidence: 0.91696507

00:22:35.840 --> 00:22:37.220 status one or two,
NOTE Confidence: 0.9953125

00:22:37.520 --> 00:22:39.380 in the new allocation system.
NOTE Confidence: 0.8742676

00:22:40.144 --> 00:22:42.225 Those are, highlighted in, the
NOTE Confidence: 0.8742676

00:22:42.225 --> 00:22:42.725 red,
NOTE Confidence: 0.9620536

00:22:43.585 --> 00:22:45.585 dots with with bars, and
NOTE Confidence: 0.9620536

00:22:45.585 --> 00:22:46.404 the pre,
NOTE Confidence: 0.99782985

00:22:47.264 --> 00:22:49.184 two thousand eighteen data is
NOTE Confidence: 0.99782985

00:22:49.184 --> 00:22:50.484 listed in the blue.
NOTE Confidence: 0.9642334

00:22:51.585 --> 00:22:53.184 So overall, it shows that
NOTE Confidence: 0.9642334

00:22:53.184 --> 00:22:54.484 the policy change
NOTE Confidence: 0.9724121

00:22:54.840 --> 00:22:56.460 since, two thousand eighteen,
NOTE Confidence: 0.9927368

00:22:56.760 --> 00:22:58.440 nearly ninety five percent of

NOTE Confidence: 0.9927368

00:22:58.440 --> 00:22:59.980 centers list patients

NOTE Confidence: 0.99713135

00:23:00.520 --> 00:23:02.280 list more patients at a

NOTE Confidence: 0.99713135

00:23:02.280 --> 00:23:04.440 high priority status compared to

NOTE Confidence: 0.99713135

00:23:04.440 --> 00:23:06.460 their practices before the policy

NOTE Confidence: 0.99713135

00:23:06.600 --> 00:23:07.100 change.

NOTE Confidence: 0.9532335

00:23:08.075 --> 00:23:09.695 It also shows that there's,

NOTE Confidence: 0.9532335

00:23:09.915 --> 00:23:12.234 once again, significant variation between

NOTE Confidence: 0.9532335

00:23:12.234 --> 00:23:14.255 the centers enlisting their patients

NOTE Confidence: 0.98527646

00:23:15.035 --> 00:23:16.795 as high priority status even

NOTE Confidence: 0.98527646

00:23:16.795 --> 00:23:18.415 when they controlled for their

NOTE Confidence: 0.98527646

00:23:18.555 --> 00:23:20.255 individual medical factors.

NOTE Confidence: 0.8826904

00:23:21.355 --> 00:23:22.015 So overall,

NOTE Confidence: 0.9781576

00:23:23.070 --> 00:23:24.750 this highlights that some centers

NOTE Confidence: 0.9781576

00:23:24.750 --> 00:23:25.789 are more likely to list

NOTE Confidence: 0.9781576

00:23:25.789 --> 00:23:27.250 patients as a higher priority,

NOTE Confidence: 0.9996745

00:23:28.029 --> 00:23:29.169 compared to others.
NOTE Confidence: 0.97958374

00:23:30.750 --> 00:23:32.029 So, when I was a
NOTE Confidence: 0.97958374

00:23:32.029 --> 00:23:33.250 resident, I did,
NOTE Confidence: 1

00:23:34.190 --> 00:23:35.330 a research project
NOTE Confidence: 0.9279896

00:23:35.725 --> 00:23:37.325 where we looked at, what
NOTE Confidence: 0.9279896

00:23:37.325 --> 00:23:39.164 happens for patients since the
NOTE Confidence: 0.9279896

00:23:39.164 --> 00:23:40.845 two thousand eighteen allocations is
NOTE Confidence: 0.9279896

00:23:40.845 --> 00:23:42.465 some change who are considered
NOTE Confidence: 0.9279896

00:23:42.605 --> 00:23:43.424 low urgency.
NOTE Confidence: 0.99243164

00:23:43.884 --> 00:23:45.424 I thought the findings were,
NOTE Confidence: 0.9975586

00:23:45.884 --> 00:23:46.384 interesting.
NOTE Confidence: 0.99209875

00:23:47.725 --> 00:23:49.200 You know, I I we
NOTE Confidence: 0.99209875

00:23:49.200 --> 00:23:50.480 looked at both pre and
NOTE Confidence: 0.99209875

00:23:50.480 --> 00:23:50.980 post,
NOTE Confidence: 0.97528756

00:23:51.679 --> 00:23:53.119 two thousand eighteen, but, you
NOTE Confidence: 0.97528756

00:23:53.119 --> 00:23:54.500 know, since that change,

NOTE Confidence: 0.99578303
00:23:55.200 --> 00:23:56.799 you know, obviously, the number
NOTE Confidence: 0.99578303
00:23:56.799 --> 00:23:58.399 of patients transplanted at a
NOTE Confidence: 0.99578303
00:23:58.399 --> 00:23:58.899 lower
NOTE Confidence: 0.68359375
00:23:59.359 --> 00:23:59.859 urgency
NOTE Confidence: 0.9995117
00:24:00.240 --> 00:24:01.619 is much lower than
NOTE Confidence: 0.9659017
00:24:02.275 --> 00:24:04.195 those, transplanted at a higher
NOTE Confidence: 0.9659017
00:24:04.195 --> 00:24:04.695 urgency.
NOTE Confidence: 0.9988281
00:24:05.315 --> 00:24:07.095 But those who were considered
NOTE Confidence: 0.9822998
00:24:07.395 --> 00:24:08.135 low urgency,
NOTE Confidence: 0.98535156
00:24:09.234 --> 00:24:10.455 were usually older
NOTE Confidence: 0.9205322
00:24:10.835 --> 00:24:11.575 and received,
NOTE Confidence: 0.9448242
00:24:12.195 --> 00:24:12.695 donor,
NOTE Confidence: 0.9304199
00:24:13.155 --> 00:24:14.295 organs from,
NOTE Confidence: 0.9824031
00:24:15.260 --> 00:24:16.859 donors that were considered higher
NOTE Confidence: 0.9824031
00:24:16.859 --> 00:24:18.380 risk either with, you know,
NOTE Confidence: 0.9824031

00:24:18.380 --> 00:24:20.080 hepatitis c, diabetes,
NOTE Confidence: 0.9838867

00:24:20.700 --> 00:24:21.019 or,
NOTE Confidence: 0.9897892

00:24:21.500 --> 00:24:23.100 older age. And we'll discuss
NOTE Confidence: 0.9897892

00:24:23.100 --> 00:24:24.619 some of those factors in
NOTE Confidence: 0.9897892

00:24:24.619 --> 00:24:26.380 the coming slides. But I
NOTE Confidence: 0.9897892

00:24:26.380 --> 00:24:27.279 also found,
NOTE Confidence: 0.9987793

00:24:27.845 --> 00:24:29.545 you know, not surprisingly,
NOTE Confidence: 0.9637207

00:24:30.005 --> 00:24:31.765 they had longer wait list
NOTE Confidence: 0.9637207

00:24:31.765 --> 00:24:33.145 times than the higher urgency
NOTE Confidence: 0.9008789

00:24:33.445 --> 00:24:33.945 candidates.
NOTE Confidence: 0.94714355

00:24:35.605 --> 00:24:36.265 But, ultimately,
NOTE Confidence: 0.9881999

00:24:37.525 --> 00:24:38.825 their outcomes remained,
NOTE Confidence: 0.99194336

00:24:39.445 --> 00:24:40.905 pretty similar to,
NOTE Confidence: 0.96669227

00:24:41.365 --> 00:24:42.850 those who were of the
NOTE Confidence: 0.96669227

00:24:42.850 --> 00:24:43.990 higher, urgency.
NOTE Confidence: 0.99383545

00:24:44.369 --> 00:24:45.169 So there's a bit of

NOTE Confidence: 0.99383545
00:24:45.169 --> 00:24:46.070 a trade off.
NOTE Confidence: 0.98287964
00:24:46.690 --> 00:24:48.230 You know, the high urgency
NOTE Confidence: 0.98287964
00:24:48.289 --> 00:24:49.909 patients are sicker.
NOTE Confidence: 0.9972331
00:24:50.210 --> 00:24:52.130 They receive hearts faster. They're
NOTE Confidence: 0.9972331
00:24:52.130 --> 00:24:54.230 typically getting the the,
NOTE Confidence: 0.99902344
00:24:55.010 --> 00:24:55.669 you know,
NOTE Confidence: 0.9968262
00:24:56.035 --> 00:24:57.875 parts that are of optimal
NOTE Confidence: 0.9968262
00:24:57.875 --> 00:24:58.375 quality
NOTE Confidence: 0.9822352
00:24:58.755 --> 00:25:00.615 compared to the lower urgency
NOTE Confidence: 0.9822352
00:25:00.675 --> 00:25:02.195 candidates who are a bit
NOTE Confidence: 0.9822352
00:25:02.195 --> 00:25:04.115 more stable. However, the lower
NOTE Confidence: 0.9822352
00:25:04.115 --> 00:25:05.095 urgency candidates,
NOTE Confidence: 0.9190674
00:25:05.715 --> 00:25:07.895 ultimately have similar outcomes.
NOTE Confidence: 0.96245116
00:25:08.435 --> 00:25:10.295 And, this may be informative,
NOTE Confidence: 0.98912466
00:25:11.270 --> 00:25:13.190 to transplant centers as they,
NOTE Confidence: 0.98912466

00:25:13.190 --> 00:25:15.289 you know, consider risk benefits
NOTE Confidence: 0.98912466

00:25:15.350 --> 00:25:15.850 and,
NOTE Confidence: 0.9472168

00:25:16.390 --> 00:25:18.230 preferences with their patients in,
NOTE Confidence: 1

00:25:18.710 --> 00:25:20.570 making decisions about this.
NOTE Confidence: 0.9309082

00:25:22.309 --> 00:25:22.710 Another,
NOTE Confidence: 1

00:25:23.109 --> 00:25:25.130 contributor to center level variation
NOTE Confidence: 0.8991699

00:25:25.510 --> 00:25:26.010 is,
NOTE Confidence: 0.99975586

00:25:26.535 --> 00:25:27.994 the concept of exceptions.
NOTE Confidence: 0.9655762

00:25:28.615 --> 00:25:29.015 So,
NOTE Confidence: 0.9684171

00:25:29.494 --> 00:25:31.675 an exception's a request that
NOTE Confidence: 0.9684171

00:25:31.895 --> 00:25:34.075 is submitted by the transplant
NOTE Confidence: 0.9684171

00:25:34.215 --> 00:25:34.715 team,
NOTE Confidence: 0.9343262

00:25:35.735 --> 00:25:36.235 that,
NOTE Confidence: 1

00:25:36.935 --> 00:25:37.435 justifies
NOTE Confidence: 0.7866211

00:25:37.735 --> 00:25:38.875 their current
NOTE Confidence: 0.9831543

00:25:39.650 --> 00:25:41.990 listing in the allocation system.

NOTE Confidence: 0.9459562
00:25:43.650 --> 00:25:44.770 It has to be done
NOTE Confidence: 0.9459562
00:25:44.770 --> 00:25:46.210 every fourteen days as I
NOTE Confidence: 0.9459562
00:25:46.210 --> 00:25:46.710 mentioned.
NOTE Confidence: 0.98986816
00:25:47.490 --> 00:25:48.450 And it may be just
NOTE Confidence: 0.98986816
00:25:48.450 --> 00:25:48.950 because,
NOTE Confidence: 0.96738976
00:25:49.730 --> 00:25:50.770 the patient is not a
NOTE Confidence: 0.96738976
00:25:50.770 --> 00:25:51.830 candidate for,
NOTE Confidence: 0.9736328
00:25:52.795 --> 00:25:54.555 a therapy that would confer
NOTE Confidence: 0.9736328
00:25:54.555 --> 00:25:56.015 them a higher status,
NOTE Confidence: 0.9857178
00:25:56.955 --> 00:25:58.095 or it could be,
NOTE Confidence: 0.9192505
00:25:58.635 --> 00:26:00.335 more of a administrative,
NOTE Confidence: 0.97842646
00:26:01.994 --> 00:26:03.595 challenge and that their blood
NOTE Confidence: 0.97842646
00:26:03.595 --> 00:26:05.435 pressure is not their systolic
NOTE Confidence: 0.97842646
00:26:05.435 --> 00:26:06.555 blood pressure is not is
NOTE Confidence: 0.97842646
00:26:06.555 --> 00:26:08.940 ninety two instead of, below
NOTE Confidence: 0.97842646

00:26:08.940 --> 00:26:09.440 ninety,
NOTE Confidence: 0.99560547
00:26:10.220 --> 00:26:10.720 which,
NOTE Confidence: 0.999783
00:26:11.020 --> 00:26:12.220 you know, may or may
NOTE Confidence: 0.999783
00:26:12.220 --> 00:26:13.919 not be clinically consequential
NOTE Confidence: 0.9836426
00:26:14.220 --> 00:26:16.320 if they're on multiple forms
NOTE Confidence: 0.9836426
00:26:16.380 --> 00:26:16.780 of,
NOTE Confidence: 0.99902344
00:26:17.260 --> 00:26:18.400 cardiac support.
NOTE Confidence: 0.951416
00:26:19.340 --> 00:26:20.880 And I think exceptions were
NOTE Confidence: 0.951416
00:26:21.165 --> 00:26:22.785 interesting to bring up because
NOTE Confidence: 0.9890747
00:26:23.085 --> 00:26:24.685 there's great variability in,
NOTE Confidence: 0.75756836
00:26:25.165 --> 00:26:25.645 centers,
NOTE Confidence: 0.82177734
00:26:27.244 --> 00:26:27.744 willingness
NOTE Confidence: 0.94874924
00:26:28.205 --> 00:26:30.205 or practice patterns to submit
NOTE Confidence: 0.94874924
00:26:30.205 --> 00:26:32.605 them, but also because there's
NOTE Confidence: 0.94874924
00:26:32.605 --> 00:26:33.585 some data that
NOTE Confidence: 0.94384766
00:26:33.960 --> 00:26:34.460 suggests,

NOTE Confidence: 0.98535156
00:26:35.080 --> 00:26:35.580 patients,
NOTE Confidence: 0.8547363
00:26:35.880 --> 00:26:37.419 who had a re
NOTE Confidence: 0.8878581
00:26:37.720 --> 00:26:39.020 exception request submitted
NOTE Confidence: 0.94989014
00:26:39.400 --> 00:26:40.700 were twenty five percent,
NOTE Confidence: 0.9996745
00:26:41.480 --> 00:26:42.760 more likely to get a
NOTE Confidence: 0.9996745
00:26:42.760 --> 00:26:44.919 transplant compared to those listed
NOTE Confidence: 0.9996745
00:26:44.919 --> 00:26:45.900 according to
NOTE Confidence: 0.99243164
00:26:46.545 --> 00:26:47.445 standard criteria.
NOTE Confidence: 0.9692993
00:26:47.985 --> 00:26:49.205 So this can have,
NOTE Confidence: 0.99505615
00:26:49.825 --> 00:26:51.685 a tangible impact on,
NOTE Confidence: 0.9986328
00:26:52.225 --> 00:26:54.244 access to transplant for patients.
NOTE Confidence: 1
00:26:55.665 --> 00:26:56.965 So this is just some
NOTE Confidence: 0.9794922
00:26:57.425 --> 00:26:59.505 data about how exceptions have
NOTE Confidence: 0.9794922
00:26:59.505 --> 00:27:00.005 been,
NOTE Confidence: 1
00:27:00.305 --> 00:27:00.805 used
NOTE Confidence: 0.9830497

00:27:01.240 --> 00:27:02.840 both before and after two
NOTE Confidence: 0.9830497

00:27:02.840 --> 00:27:03.580 thousand eighteen.
NOTE Confidence: 0.9890137

00:27:05.880 --> 00:27:06.380 And,
NOTE Confidence: 0.9842027

00:27:06.760 --> 00:27:08.840 you know, focusing primarily on
NOTE Confidence: 0.9842027

00:27:08.840 --> 00:27:10.279 the bottom set of graphs,
NOTE Confidence: 0.9842027

00:27:10.279 --> 00:27:11.559 which is post post two
NOTE Confidence: 0.9842027

00:27:11.559 --> 00:27:12.460 thousand eighteen,
NOTE Confidence: 0.99934894

00:27:12.760 --> 00:27:13.740 it showed that
NOTE Confidence: 0.9449463

00:27:14.315 --> 00:27:16.315 overall some there was increased
NOTE Confidence: 0.9449463

00:27:16.315 --> 00:27:17.295 use of exceptions
NOTE Confidence: 0.9328613

00:27:18.075 --> 00:27:18.875 and that,
NOTE Confidence: 0.99397784

00:27:19.275 --> 00:27:20.875 they were primarily used for
NOTE Confidence: 0.99397784

00:27:20.875 --> 00:27:21.375 patients,
NOTE Confidence: 0.9460798

00:27:22.155 --> 00:27:24.155 in status one, two, and
NOTE Confidence: 0.9460798

00:27:24.155 --> 00:27:24.955 four. Their,
NOTE Confidence: 0.95910645

00:27:25.755 --> 00:27:27.615 their utilization increased substantially.

NOTE Confidence: 0.9995117

00:27:29.600 --> 00:27:30.640 And this is from a

NOTE Confidence: 0.9995117

00:27:30.640 --> 00:27:32.400 separate study that looked at

NOTE Confidence: 0.9995117

00:27:32.400 --> 00:27:33.300 both geographic

NOTE Confidence: 0.9778181

00:27:33.600 --> 00:27:35.520 patterns of exception use as

NOTE Confidence: 0.9778181

00:27:35.520 --> 00:27:36.240 well as,

NOTE Confidence: 0.9946289

00:27:36.800 --> 00:27:38.720 individual transplant center use of

NOTE Confidence: 0.9946289

00:27:38.720 --> 00:27:39.220 exceptions.

NOTE Confidence: 0.9970161

00:27:40.000 --> 00:27:41.860 So looking at the geography

NOTE Confidence: 0.9970161

00:27:41.920 --> 00:27:43.060 first on the left,

NOTE Confidence: 0.9871303

00:27:44.515 --> 00:27:46.294 exceptions were more commonly used

NOTE Confidence: 0.9871303

00:27:46.434 --> 00:27:48.294 in regions three and four,

NOTE Confidence: 0.9871303

00:27:48.434 --> 00:27:50.294 which represent the southwestern

NOTE Confidence: 0.67749023

00:27:50.595 --> 00:27:51.095 US,

NOTE Confidence: 0.98657227

00:27:51.475 --> 00:27:51.975 while,

NOTE Confidence: 0.9496257

00:27:52.674 --> 00:27:54.515 you know, other regions like

NOTE Confidence: 0.9496257

00:27:54.515 --> 00:27:55.955 five, six in the western
NOTE Confidence: 0.9496257

00:27:55.955 --> 00:27:57.490 US and parts of, the
NOTE Confidence: 0.9496257

00:27:57.490 --> 00:27:59.570 Midwest were less likely to
NOTE Confidence: 0.9496257

00:27:59.570 --> 00:28:00.049 submit,
NOTE Confidence: 0.9848633

00:28:00.609 --> 00:28:01.669 exception requests.
NOTE Confidence: 0.9980469

00:28:02.450 --> 00:28:03.490 And the authors of this
NOTE Confidence: 0.9980469

00:28:03.490 --> 00:28:03.990 study
NOTE Confidence: 0.9930013

00:28:04.369 --> 00:28:05.409 mentioned that this could be
NOTE Confidence: 0.9930013

00:28:05.409 --> 00:28:05.909 because,
NOTE Confidence: 0.9291295

00:28:07.650 --> 00:28:08.850 there are longer wait list
NOTE Confidence: 0.9291295

00:28:08.850 --> 00:28:09.730 times for,
NOTE Confidence: 0.9376221

00:28:10.345 --> 00:28:11.465 patients in,
NOTE Confidence: 0.8267212

00:28:11.945 --> 00:28:13.725 the reg regions where
NOTE Confidence: 0.91625977

00:28:14.825 --> 00:28:16.764 exception utilization was high.
NOTE Confidence: 0.99600077

00:28:17.625 --> 00:28:18.744 The figure on the right
NOTE Confidence: 0.99600077

00:28:18.744 --> 00:28:20.424 is interesting because it looks

NOTE Confidence: 0.99600077
00:28:20.424 --> 00:28:22.505 at individual transplant centers and
NOTE Confidence: 0.99600077
00:28:22.505 --> 00:28:24.284 how they vary in exception
NOTE Confidence: 0.99600077
00:28:24.345 --> 00:28:24.845 utilization.
NOTE Confidence: 0.9307454
00:28:25.625 --> 00:28:26.670 So So you can see
NOTE Confidence: 0.9307454
00:28:26.970 --> 00:28:27.369 that,
NOTE Confidence: 0.990804
00:28:27.770 --> 00:28:28.890 the the size of the
NOTE Confidence: 0.990804
00:28:28.890 --> 00:28:29.390 circles
NOTE Confidence: 0.9946289
00:28:29.770 --> 00:28:30.270 represents,
NOTE Confidence: 0.9801297
00:28:31.369 --> 00:28:32.570 you know, the number of
NOTE Confidence: 0.9801297
00:28:32.570 --> 00:28:34.410 transplants, that are performed at
NOTE Confidence: 0.9801297
00:28:34.410 --> 00:28:35.150 that center.
NOTE Confidence: 0.99210614
00:28:36.170 --> 00:28:38.110 And, it's once again stratified
NOTE Confidence: 0.99210614
00:28:38.330 --> 00:28:38.830 by
NOTE Confidence: 0.99853516
00:28:39.290 --> 00:28:39.790 region.
NOTE Confidence: 0.98660713
00:28:40.445 --> 00:28:42.045 So there are some high
NOTE Confidence: 0.98660713

00:28:42.045 --> 00:28:43.025 volume centers,
NOTE Confidence: 0.95758057

00:28:43.885 --> 00:28:45.645 that use transplant or,
NOTE Confidence: 0.99869794

00:28:46.125 --> 00:28:47.425 exceptions quite frequently.
NOTE Confidence: 0.99902344

00:28:48.125 --> 00:28:49.725 There are other high volume
NOTE Confidence: 0.99902344

00:28:49.725 --> 00:28:50.225 centers
NOTE Confidence: 0.98222655

00:28:50.525 --> 00:28:51.905 even in the same region
NOTE Confidence: 0.9885254

00:28:52.365 --> 00:28:52.865 that,
NOTE Confidence: 0.915446

00:28:53.850 --> 00:28:54.750 you know, use,
NOTE Confidence: 0.96347654

00:28:55.770 --> 00:28:57.710 exception requests much less frequently.
NOTE Confidence: 0.9866333

00:28:58.250 --> 00:28:59.549 So it's sort of,
NOTE Confidence: 0.9918823

00:29:00.010 --> 00:29:01.530 across the board, a great
NOTE Confidence: 0.9918823

00:29:01.530 --> 00:29:02.590 deal of variation
NOTE Confidence: 0.9488281

00:29:02.890 --> 00:29:04.750 in how they're being applied.
NOTE Confidence: 0.9756944

00:29:06.345 --> 00:29:07.625 And finally, this is just
NOTE Confidence: 0.9756944

00:29:07.625 --> 00:29:09.405 a quick graph showing,
NOTE Confidence: 0.96325684

00:29:10.184 --> 00:29:11.545 you know, once again, as

NOTE Confidence: 0.96325684
00:29:11.545 --> 00:29:13.545 I mentioned that, patients who
NOTE Confidence: 0.96325684
00:29:13.545 --> 00:29:15.145 had exceptions submitted on their
NOTE Confidence: 0.96325684
00:29:15.145 --> 00:29:15.645 behalf,
NOTE Confidence: 1
00:29:16.345 --> 00:29:17.565 had a higher likelihood
NOTE Confidence: 0.9727783
00:29:18.230 --> 00:29:20.550 of, getting a transplant even
NOTE Confidence: 0.9727783
00:29:20.550 --> 00:29:22.010 after adjusting for,
NOTE Confidence: 0.9888916
00:29:22.870 --> 00:29:24.570 variety of medical factors.
NOTE Confidence: 0.9827326
00:29:27.510 --> 00:29:29.190 Moving on, I wanna talk
NOTE Confidence: 0.9827326
00:29:29.190 --> 00:29:31.510 about how centers differ in
NOTE Confidence: 0.9827326
00:29:31.510 --> 00:29:31.910 their,
NOTE Confidence: 0.9995117
00:29:32.310 --> 00:29:33.690 donor organ acceptance.
NOTE Confidence: 0.9946086
00:29:35.005 --> 00:29:36.285 There are some centers that
NOTE Confidence: 0.9946086
00:29:36.285 --> 00:29:38.125 might be more likely to
NOTE Confidence: 0.9946086
00:29:38.125 --> 00:29:38.945 accept donors,
NOTE Confidence: 0.9638672
00:29:40.365 --> 00:29:42.385 accept organs from donors that
NOTE Confidence: 0.9638672

00:29:42.605 --> 00:29:44.765 are older than forty years

NOTE Confidence: 0.9638672

00:29:44.765 --> 00:29:46.045 of age or so or

NOTE Confidence: 0.9638672

00:29:46.045 --> 00:29:47.105 that are hepatitis

NOTE Confidence: 0.9970703

00:29:47.405 --> 00:29:47.905 c

NOTE Confidence: 0.9970703

00:29:48.630 --> 00:29:49.130 positive

NOTE Confidence: 0.95072937

00:29:49.430 --> 00:29:51.030 or that come from a

NOTE Confidence: 0.95072937

00:29:51.030 --> 00:29:52.890 longer distance from the transplant

NOTE Confidence: 0.95072937

00:29:52.950 --> 00:29:55.670 center, typically around five hundred

NOTE Confidence: 0.95072937

00:29:55.670 --> 00:29:56.170 miles.

NOTE Confidence: 0.98999023

00:29:56.950 --> 00:29:57.450 Or,

NOTE Confidence: 0.9208171

00:29:57.910 --> 00:29:59.290 there are, different

NOTE Confidence: 0.97542316

00:30:00.525 --> 00:30:01.745 practices as to,

NOTE Confidence: 0.98706055

00:30:02.525 --> 00:30:04.305 accepting organs that have been

NOTE Confidence: 0.98706055

00:30:04.365 --> 00:30:05.505 rejected by,

NOTE Confidence: 0.9881417

00:30:06.045 --> 00:30:07.965 many other transplant centers, which

NOTE Confidence: 0.9881417

00:30:07.965 --> 00:30:09.645 is a metric known as

NOTE Confidence: 0.9881417
00:30:09.645 --> 00:30:11.825 the, donor sequence number.
NOTE Confidence: 0.9265544
00:30:13.470 --> 00:30:15.730 Another metric is the acceptance
NOTE Confidence: 0.9265544
00:30:15.870 --> 00:30:16.370 ratio,
NOTE Confidence: 0.99520874
00:30:16.670 --> 00:30:18.910 which compares how likely a
NOTE Confidence: 0.99520874
00:30:18.910 --> 00:30:20.290 transplant center is,
NOTE Confidence: 0.9777832
00:30:20.750 --> 00:30:22.130 to accept an organ,
NOTE Confidence: 0.987854
00:30:23.950 --> 00:30:25.490 with a national average.
NOTE Confidence: 0.98956853
00:30:26.175 --> 00:30:28.275 And, these metrics are actually
NOTE Confidence: 0.98956853
00:30:28.415 --> 00:30:31.135 available online for both, patients
NOTE Confidence: 0.98956853
00:30:31.135 --> 00:30:31.635 to
NOTE Confidence: 0.9723036
00:30:31.935 --> 00:30:33.775 review if if they're so
NOTE Confidence: 0.9723036
00:30:33.775 --> 00:30:35.715 inclined or even clinicians,
NOTE Confidence: 0.9876506
00:30:36.255 --> 00:30:37.375 to be able to compare
NOTE Confidence: 0.9876506
00:30:37.375 --> 00:30:39.215 their, program to others in
NOTE Confidence: 0.9876506
00:30:39.215 --> 00:30:39.795 the region.
NOTE Confidence: 0.96661377

00:30:41.000 --> 00:30:42.039 And, you know, this data
NOTE Confidence: 0.96661377

00:30:42.039 --> 00:30:43.960 is pretty interesting because it
NOTE Confidence: 0.96661377

00:30:43.960 --> 00:30:45.740 can show that some centers
NOTE Confidence: 0.96661377

00:30:45.799 --> 00:30:47.320 are maybe even three or
NOTE Confidence: 0.96661377

00:30:47.320 --> 00:30:48.779 four times more likely,
NOTE Confidence: 0.9907552

00:30:50.360 --> 00:30:52.059 than, you know, an average
NOTE Confidence: 0.9907552

00:30:52.120 --> 00:30:54.200 center to accept organs that
NOTE Confidence: 0.9907552

00:30:54.200 --> 00:30:56.139 might be considered higher risk,
NOTE Confidence: 0.998584

00:30:56.815 --> 00:30:58.355 by a variety of metrics
NOTE Confidence: 0.998584

00:30:58.495 --> 00:31:00.195 compared to the national average.
NOTE Confidence: 0.99853516

00:31:01.615 --> 00:31:02.355 The implication
NOTE Confidence: 0.99698895

00:31:03.055 --> 00:31:04.335 of all of this is
NOTE Confidence: 0.99698895

00:31:04.335 --> 00:31:04.835 that,
NOTE Confidence: 0.9984538

00:31:05.855 --> 00:31:07.375 you know, one patient might
NOTE Confidence: 0.9984538

00:31:07.375 --> 00:31:07.875 have
NOTE Confidence: 0.9601237

00:31:08.175 --> 00:31:10.175 different access to different donor

NOTE Confidence: 0.9601237
00:31:10.175 --> 00:31:10.675 pools,
NOTE Confidence: 0.99665177
00:31:11.360 --> 00:31:13.600 depending on the transplant center
NOTE Confidence: 0.99665177
00:31:13.600 --> 00:31:15.200 they go to or the
NOTE Confidence: 0.99665177
00:31:15.200 --> 00:31:16.580 area that they live.
NOTE Confidence: 0.9958496
00:31:17.920 --> 00:31:18.960 So this was a nice
NOTE Confidence: 0.9958496
00:31:18.960 --> 00:31:20.260 figure that demonstrates,
NOTE Confidence: 0.56396484
00:31:21.360 --> 00:31:21.860 their,
NOTE Confidence: 0.97127277
00:31:22.800 --> 00:31:24.260 different centers with,
NOTE Confidence: 0.98498535
00:31:24.720 --> 00:31:27.215 different acceptance rates of donor
NOTE Confidence: 0.98498535
00:31:27.215 --> 00:31:27.715 organs,
NOTE Confidence: 0.9996745
00:31:28.815 --> 00:31:29.875 based on their
NOTE Confidence: 0.60253906
00:31:30.255 --> 00:31:30.755 geography
NOTE Confidence: 0.8748779
00:31:31.215 --> 00:31:32.995 in, the UNOS region.
NOTE Confidence: 0.98811847
00:31:33.855 --> 00:31:34.675 You can see,
NOTE Confidence: 0.99960935
00:31:35.375 --> 00:31:36.675 you know, some of these
NOTE Confidence: 0.9998372

00:31:37.135 --> 00:31:39.235 centers have very high acceptance
NOTE Confidence: 0.9998372

00:31:39.455 --> 00:31:39.955 rates
NOTE Confidence: 0.8666992

00:31:40.559 --> 00:31:41.059 and,
NOTE Confidence: 0.98445636

00:31:41.759 --> 00:31:43.360 receive a lot of first
NOTE Confidence: 0.98445636

00:31:43.360 --> 00:31:43.860 offer,
NOTE Confidence: 0.99912107

00:31:45.039 --> 00:31:47.059 organs from the procurement networks.
NOTE Confidence: 1

00:31:47.759 --> 00:31:48.659 Others have
NOTE Confidence: 0.95410156

00:31:49.039 --> 00:31:51.059 high first offer rates, but,
NOTE Confidence: 0.9943626

00:31:51.679 --> 00:31:54.000 low overall acceptance rates. And
NOTE Confidence: 0.9943626

00:31:54.000 --> 00:31:55.519 the converse is also true
NOTE Confidence: 0.9943626

00:31:55.519 --> 00:31:56.019 for
NOTE Confidence: 0.9987793

00:31:56.325 --> 00:31:57.065 centers that,
NOTE Confidence: 0.9937256

00:31:57.924 --> 00:31:58.804 you know, have a low
NOTE Confidence: 0.9937256

00:31:58.804 --> 00:32:00.985 acceptance rate and don't receive,
NOTE Confidence: 0.9992676

00:32:01.924 --> 00:32:02.745 many offers.
NOTE Confidence: 0.9827474

00:32:04.404 --> 00:32:05.465 There's been additional,

NOTE Confidence: 1

00:32:06.005 --> 00:32:07.145 supporting data

NOTE Confidence: 0.9975586

00:32:07.684 --> 00:32:08.184 that,

NOTE Confidence: 0.9369673

00:32:08.565 --> 00:32:10.005 you know, transplant centers that

NOTE Confidence: 0.9369673

00:32:10.005 --> 00:32:11.705 have a higher acceptance rates

NOTE Confidence: 0.9369673

00:32:11.870 --> 00:32:13.470 had lower rates of wait

NOTE Confidence: 0.9369673

00:32:13.470 --> 00:32:15.630 list mortality overall and a

NOTE Confidence: 0.9369673

00:32:15.630 --> 00:32:16.450 higher incidence

NOTE Confidence: 0.9859126

00:32:16.910 --> 00:32:19.090 of, transplant at one year,

NOTE Confidence: 0.9859126

00:32:19.390 --> 00:32:21.170 which I think makes intuitive

NOTE Confidence: 0.9859126

00:32:21.390 --> 00:32:22.750 sense if they have a

NOTE Confidence: 0.9859126

00:32:22.750 --> 00:32:24.690 larger donor pool that's,

NOTE Confidence: 0.9921875

00:32:25.550 --> 00:32:26.050 available.

NOTE Confidence: 0.9981384

00:32:26.995 --> 00:32:28.115 But, there's been a lot

NOTE Confidence: 0.9981384

00:32:28.115 --> 00:32:29.335 of concern raised,

NOTE Confidence: 0.8429362

00:32:30.034 --> 00:32:30.855 in the transplant

NOTE Confidence: 0.9326172

00:32:31.794 --> 00:32:32.294 community
NOTE Confidence: 0.9885951

00:32:32.835 --> 00:32:34.375 about, you know, how outcomes
NOTE Confidence: 0.9885951

00:32:34.434 --> 00:32:35.154 might be,
NOTE Confidence: 0.9446289

00:32:35.475 --> 00:32:37.335 impacted if these, quote, unquote,
NOTE Confidence: 0.9785156

00:32:37.635 --> 00:32:38.534 lower quality,
NOTE Confidence: 1

00:32:39.315 --> 00:32:39.815 organs
NOTE Confidence: 0.99780273

00:32:40.274 --> 00:32:41.015 are used.
NOTE Confidence: 0.9998535

00:32:41.340 --> 00:32:43.100 So I wanted to explore
NOTE Confidence: 0.9998535

00:32:43.100 --> 00:32:44.640 that a little bit more.
NOTE Confidence: 0.99153644

00:32:45.100 --> 00:32:46.860 I mentioned the donor sequence
NOTE Confidence: 0.99153644

00:32:46.860 --> 00:32:47.360 number
NOTE Confidence: 0.9909668

00:32:47.980 --> 00:32:48.480 is,
NOTE Confidence: 0.9682173

00:32:49.020 --> 00:32:50.720 the number of times that
NOTE Confidence: 0.9682173

00:32:50.860 --> 00:32:52.460 a a potential organ has
NOTE Confidence: 0.9682173

00:32:52.460 --> 00:32:52.960 been
NOTE Confidence: 0.89833987

00:32:53.260 --> 00:32:55.760 offered and then rejected by

NOTE Confidence: 0.93098146
00:32:56.115 --> 00:32:58.215 a transplant center. And typically,
NOTE Confidence: 0.93098146
00:32:58.435 --> 00:33:00.535 around fifty times is considered,
NOTE Confidence: 0.99965125
00:33:01.635 --> 00:33:03.395 you know, a high donor
NOTE Confidence: 0.99965125
00:33:03.395 --> 00:33:04.455 sequence number.
NOTE Confidence: 0.99993896
00:33:04.995 --> 00:33:05.955 So this was a study
NOTE Confidence: 0.99993896
00:33:05.955 --> 00:33:07.555 that looked at the outcomes
NOTE Confidence: 0.99993896
00:33:07.555 --> 00:33:08.595 of patients who got a
NOTE Confidence: 0.99993896
00:33:08.595 --> 00:33:09.095 transplant
NOTE Confidence: 0.999721
00:33:09.555 --> 00:33:10.755 with an organ that had
NOTE Confidence: 0.999721
00:33:10.755 --> 00:33:11.335 a high
NOTE Confidence: 0.9865374
00:33:12.010 --> 00:33:13.950 donor sequence number compared to
NOTE Confidence: 0.9865374
00:33:14.010 --> 00:33:15.929 low donor sequence number. And
NOTE Confidence: 0.9865374
00:33:15.929 --> 00:33:17.610 it ultimately found that, you
NOTE Confidence: 0.9865374
00:33:17.610 --> 00:33:19.450 know, the outcomes were pretty
NOTE Confidence: 0.9865374
00:33:19.450 --> 00:33:19.950 similar,
NOTE Confidence: 0.9984131

00:33:21.690 --> 00:33:23.710 three years after transplant.
NOTE Confidence: 0.9666637

00:33:24.775 --> 00:33:26.535 It also looked at reasons
NOTE Confidence: 0.9666637

00:33:26.535 --> 00:33:28.635 for why or factors associated
NOTE Confidence: 0.9666637

00:33:28.775 --> 00:33:29.255 with,
NOTE Confidence: 0.98186237

00:33:30.054 --> 00:33:31.255 why an organ might have
NOTE Confidence: 0.98186237

00:33:31.255 --> 00:33:33.015 a high donor sequence number.
NOTE Confidence: 0.98186237

00:33:33.015 --> 00:33:33.975 And they tended to be
NOTE Confidence: 0.98186237

00:33:33.975 --> 00:33:35.735 from donors of older age
NOTE Confidence: 0.98186237

00:33:35.735 --> 00:33:37.434 who had hypertension, diabetes,
NOTE Confidence: 0.87841797

00:33:38.640 --> 00:33:40.240 a re a lower ejection
NOTE Confidence: 0.87841797

00:33:40.240 --> 00:33:40.740 fraction,
NOTE Confidence: 0.9126465

00:33:41.200 --> 00:33:43.620 or were hepatitis c positive.
NOTE Confidence: 0.97314453

00:33:46.640 --> 00:33:47.380 On the,
NOTE Confidence: 0.99260604

00:33:48.320 --> 00:33:50.100 the the point of hepatitis
NOTE Confidence: 0.99260604

00:33:50.240 --> 00:33:50.980 c donors,
NOTE Confidence: 0.9874737

00:33:52.025 --> 00:33:53.385 it's kind of striking that,

NOTE Confidence: 0.9874737

00:33:53.385 --> 00:33:54.825 you know, since as of

NOTE Confidence: 0.9874737

00:33:54.825 --> 00:33:56.424 the last, data I found

NOTE Confidence: 0.9874737

00:33:56.424 --> 00:33:57.544 on this back in twenty

NOTE Confidence: 0.9874737

00:33:57.544 --> 00:33:58.985 twenty two, only about half

NOTE Confidence: 0.9874737

00:33:58.985 --> 00:33:59.485 of,

NOTE Confidence: 0.9770508

00:34:00.105 --> 00:34:01.645 transplant centers were,

NOTE Confidence: 0.9995117

00:34:02.585 --> 00:34:03.085 allowing,

NOTE Confidence: 0.9881836

00:34:03.785 --> 00:34:05.245 you know, hep c positive

NOTE Confidence: 0.9505615

00:34:05.680 --> 00:34:07.360 donor organs. I'd suspect if

NOTE Confidence: 0.9505615

00:34:07.360 --> 00:34:08.100 that was

NOTE Confidence: 0.92749023

00:34:08.400 --> 00:34:08.900 updated,

NOTE Confidence: 0.9496745

00:34:09.520 --> 00:34:10.800 in more recent years, that

NOTE Confidence: 0.9496745

00:34:10.800 --> 00:34:12.400 number is increasing, which I

NOTE Confidence: 0.9496745

00:34:12.400 --> 00:34:14.580 think is good because overall,

NOTE Confidence: 0.9998915

00:34:15.360 --> 00:34:16.560 you know, a few different

NOTE Confidence: 0.9998915

00:34:16.560 --> 00:34:18.020 studies have noted that
NOTE Confidence: 0.96388155

00:34:19.105 --> 00:34:21.025 outcomes are similar using these
NOTE Confidence: 0.96388155

00:34:21.025 --> 00:34:22.625 types of organs, and the
NOTE Confidence: 0.96388155

00:34:22.625 --> 00:34:24.165 wait list times are shorter,
NOTE Confidence: 0.96388155

00:34:24.305 --> 00:34:25.105 which is,
NOTE Confidence: 0.9698661

00:34:25.505 --> 00:34:27.685 good for our, patients and
NOTE Confidence: 0.9698661

00:34:27.745 --> 00:34:28.805 expands their,
NOTE Confidence: 0.99816895

00:34:29.425 --> 00:34:31.285 access to cardiac transplant.
NOTE Confidence: 0.9785156

00:34:33.170 --> 00:34:34.050 Up for a little bit
NOTE Confidence: 0.9785156

00:34:34.050 --> 00:34:35.330 more debate is,
NOTE Confidence: 0.99921876

00:34:35.810 --> 00:34:38.310 the ischemic time and acceptance
NOTE Confidence: 0.84643555

00:34:38.690 --> 00:34:38.930 of,
NOTE Confidence: 0.99960935

00:34:39.490 --> 00:34:41.750 donor organs from older donors.
NOTE Confidence: 0.98986816

00:34:42.610 --> 00:34:44.710 So there's the overall concern
NOTE Confidence: 0.98986816

00:34:45.010 --> 00:34:46.070 is that if
NOTE Confidence: 0.9119358

00:34:47.795 --> 00:34:49.555 a organ has a prolonged

NOTE Confidence: 0.9119358

00:34:49.555 --> 00:34:52.355 ischemic time, typically less than

NOTE Confidence: 0.9119358

00:34:52.355 --> 00:34:54.535 four hours is considered adequate,

NOTE Confidence: 0.95670575

00:34:55.475 --> 00:34:56.535 that, you know,

NOTE Confidence: 0.9698242

00:34:56.995 --> 00:34:58.035 it it it could be

NOTE Confidence: 0.9698242

00:34:58.035 --> 00:34:59.895 an increased risk of rejection

NOTE Confidence: 0.9961328

00:35:00.515 --> 00:35:01.795 in the short term, which

NOTE Confidence: 0.9961328

00:35:01.795 --> 00:35:02.760 is, you know, one of

NOTE Confidence: 0.9961328

00:35:02.760 --> 00:35:04.680 the dreaded fears of of

NOTE Confidence: 0.9961328

00:35:04.680 --> 00:35:06.280 using, you know, organs that

NOTE Confidence: 0.9961328

00:35:06.280 --> 00:35:07.880 might not be of of,

NOTE Confidence: 0.99658203

00:35:08.280 --> 00:35:09.420 optimal quality.

NOTE Confidence: 0.9739746

00:35:11.160 --> 00:35:12.200 But, you know, this has

NOTE Confidence: 0.9739746

00:35:12.200 --> 00:35:13.480 been studied a little bit,

NOTE Confidence: 0.9739746

00:35:13.480 --> 00:35:14.680 and I think the evidence

NOTE Confidence: 0.9739746

00:35:14.680 --> 00:35:16.380 is a little bit mixed.

NOTE Confidence: 0.9984538

00:35:17.195 --> 00:35:18.315 You know, a lot of
NOTE Confidence: 0.9984538

00:35:18.315 --> 00:35:18.815 centers
NOTE Confidence: 0.9168701

00:35:19.355 --> 00:35:20.495 have a a cutoff
NOTE Confidence: 0.9404297

00:35:20.875 --> 00:35:21.455 of using,
NOTE Confidence: 0.99663466

00:35:22.475 --> 00:35:23.915 organs from donors who are
NOTE Confidence: 0.99663466

00:35:23.915 --> 00:35:25.855 forty years old or less.
NOTE Confidence: 0.99663466

00:35:26.075 --> 00:35:27.515 Some have a little bit
NOTE Confidence: 0.99663466

00:35:27.515 --> 00:35:28.255 more lenient,
NOTE Confidence: 0.99383545

00:35:29.195 --> 00:35:30.630 you know, forty to forty
NOTE Confidence: 0.99383545

00:35:30.630 --> 00:35:32.150 five. Some might even go
NOTE Confidence: 0.99383545

00:35:32.150 --> 00:35:32.789 up to,
NOTE Confidence: 0.95834583

00:35:33.270 --> 00:35:34.869 donors that are fifty years.
NOTE Confidence: 0.95834583

00:35:34.869 --> 00:35:36.410 I would say that's probably
NOTE Confidence: 0.95834583

00:35:36.469 --> 00:35:37.529 the limit because,
NOTE Confidence: 0.9958903

00:35:38.309 --> 00:35:39.989 there's been some evidence showing
NOTE Confidence: 0.9958903

00:35:39.989 --> 00:35:40.489 that,

NOTE Confidence: 0.9965576

00:35:41.589 --> 00:35:43.349 those those organs are at

NOTE Confidence: 0.9965576

00:35:43.349 --> 00:35:45.369 the highest risk of rejection.

NOTE Confidence: 0.97250974

00:35:45.795 --> 00:35:46.835 But there have been also

NOTE Confidence: 0.97250974

00:35:46.835 --> 00:35:48.674 some analyses that look at,

NOTE Confidence: 0.9753418

00:35:48.994 --> 00:35:50.674 factors beyond the age. And

NOTE Confidence: 0.9753418

00:35:50.674 --> 00:35:51.655 when those analyses,

NOTE Confidence: 0.92785645

00:35:52.674 --> 00:35:53.655 adjust for,

NOTE Confidence: 0.9280599

00:35:54.515 --> 00:35:55.974 different medical factors,

NOTE Confidence: 0.9921875

00:35:56.355 --> 00:35:56.855 that

NOTE Confidence: 0.66674805

00:35:57.714 --> 00:35:58.214 initial,

NOTE Confidence: 0.8251953

00:36:01.410 --> 00:36:01.910 adverse,

NOTE Confidence: 0.95739746

00:36:02.690 --> 00:36:04.310 impact of donor age,

NOTE Confidence: 0.9987793

00:36:05.330 --> 00:36:06.150 was reduced.

NOTE Confidence: 0.92786753

00:36:06.690 --> 00:36:08.130 So, I think that's something

NOTE Confidence: 0.92786753

00:36:08.130 --> 00:36:10.050 that requires a little bit

NOTE Confidence: 0.92786753

00:36:10.050 --> 00:36:10.550 more,
NOTE Confidence: 0.9951172
00:36:11.650 --> 00:36:12.150 exploration
NOTE Confidence: 0.9901123
00:36:12.864 --> 00:36:13.605 and consistency,
NOTE Confidence: 0.9996745
00:36:14.705 --> 00:36:15.605 in our studies.
NOTE Confidence: 0.99953496
00:36:16.065 --> 00:36:17.344 And on the point of
NOTE Confidence: 0.99953496
00:36:17.344 --> 00:36:18.405 ischemic time,
NOTE Confidence: 0.9440918
00:36:19.185 --> 00:36:20.945 there have been development of
NOTE Confidence: 0.9440918
00:36:20.945 --> 00:36:21.765 more novel,
NOTE Confidence: 0.9774306
00:36:22.145 --> 00:36:23.285 cooling and perfusion,
NOTE Confidence: 0.96484375
00:36:24.225 --> 00:36:26.325 strategies in recent years, specifically,
NOTE Confidence: 0.89294434
00:36:27.290 --> 00:36:28.750 the Sherpa pack, which
NOTE Confidence: 0.9932016
00:36:29.050 --> 00:36:30.969 provides sort of uniform cooling
NOTE Confidence: 0.9932016
00:36:30.969 --> 00:36:32.730 for the the organ while
NOTE Confidence: 0.9932016
00:36:32.730 --> 00:36:33.790 it's being transplanted
NOTE Confidence: 0.98126775
00:36:34.570 --> 00:36:36.250 and allows it, to travel
NOTE Confidence: 0.98126775
00:36:36.250 --> 00:36:37.609 safely for up to four

NOTE Confidence: 0.98126775

00:36:37.609 --> 00:36:38.109 hours.

NOTE Confidence: 0.9465739

00:36:38.410 --> 00:36:39.609 And then, you know, the

NOTE Confidence: 0.9465739

00:36:39.609 --> 00:36:40.109 TransMedics

NOTE Confidence: 0.9419759

00:36:40.489 --> 00:36:41.369 device, which can,

NOTE Confidence: 0.95686847

00:36:42.665 --> 00:36:43.484 sort of artificially

NOTE Confidence: 0.99365234

00:36:43.785 --> 00:36:44.285 perfuse

NOTE Confidence: 0.98588055

00:36:44.665 --> 00:36:47.005 the donor organ with oxygenated

NOTE Confidence: 0.98588055

00:36:47.224 --> 00:36:47.724 blood.

NOTE Confidence: 0.98020244

00:36:48.265 --> 00:36:49.145 Some have called it, you

NOTE Confidence: 0.98020244

00:36:49.145 --> 00:36:50.105 know, the heart in a

NOTE Confidence: 0.98020244

00:36:50.105 --> 00:36:50.605 box,

NOTE Confidence: 0.9897317

00:36:51.464 --> 00:36:53.385 and, you know, how, that

NOTE Confidence: 0.9897317

00:36:53.385 --> 00:36:55.785 can impact ischemic times, the

NOTE Confidence: 0.9897317

00:36:55.785 --> 00:36:57.545 amount of distance that, can

NOTE Confidence: 0.9897317

00:36:57.545 --> 00:36:58.285 be traveled.

NOTE Confidence: 0.982089

00:36:59.120 --> 00:37:00.640 All of this is also
NOTE Confidence: 0.982089

00:37:00.640 --> 00:37:02.880 important because these technologies might
NOTE Confidence: 0.982089

00:37:02.880 --> 00:37:03.200 not,
NOTE Confidence: 0.9885254

00:37:03.680 --> 00:37:04.340 be available,
NOTE Confidence: 0.992513

00:37:04.960 --> 00:37:06.480 to all transplant centers and
NOTE Confidence: 0.992513

00:37:06.480 --> 00:37:06.980 only,
NOTE Confidence: 0.9997337

00:37:07.360 --> 00:37:08.719 to those who have, you
NOTE Confidence: 0.9997337

00:37:08.719 --> 00:37:10.400 know, the highest level of
NOTE Confidence: 0.9997337

00:37:10.400 --> 00:37:10.900 resources.
NOTE Confidence: 0.9812744

00:37:13.214 --> 00:37:14.414 And finally, I wanted to
NOTE Confidence: 0.9812744

00:37:14.414 --> 00:37:15.635 talk a little bit about,
NOTE Confidence: 0.99902344

00:37:16.255 --> 00:37:16.755 transplant
NOTE Confidence: 0.9951172

00:37:17.055 --> 00:37:17.555 volume,
NOTE Confidence: 0.969308

00:37:18.575 --> 00:37:20.174 which can contribute to center
NOTE Confidence: 0.969308

00:37:20.174 --> 00:37:21.075 level variation.
NOTE Confidence: 0.9727783

00:37:21.934 --> 00:37:22.734 And it also has a

NOTE Confidence: 0.9727783
00:37:22.734 --> 00:37:24.255 very tangible impact on a
NOTE Confidence: 0.9727783
00:37:24.255 --> 00:37:25.234 patient's likelihood
NOTE Confidence: 0.99975586
00:37:25.855 --> 00:37:27.075 of getting a transplant.
NOTE Confidence: 0.96229386
00:37:27.770 --> 00:37:29.609 So even, in the same
NOTE Confidence: 0.96229386
00:37:29.609 --> 00:37:31.690 UNOS region where the,
NOTE Confidence: 0.8980957
00:37:33.290 --> 00:37:35.609 donor organ supply is pretty,
NOTE Confidence: 0.9748535
00:37:36.489 --> 00:37:36.989 similar,
NOTE Confidence: 0.98291016
00:37:37.450 --> 00:37:38.489 there can be up to
NOTE Confidence: 0.98291016
00:37:38.489 --> 00:37:40.250 a thirty percent difference in,
NOTE Confidence: 0.9885254
00:37:40.650 --> 00:37:41.869 transplant rates.
NOTE Confidence: 0.98271483
00:37:42.915 --> 00:37:43.955 And this might be due
NOTE Confidence: 0.98271483
00:37:43.955 --> 00:37:45.335 to a variety of factors
NOTE Confidence: 0.84521484
00:37:45.795 --> 00:37:46.695 such as,
NOTE Confidence: 0.998291
00:37:47.555 --> 00:37:49.895 greater temporary MCS capabilities
NOTE Confidence: 0.96154785
00:37:50.675 --> 00:37:52.775 or, more resources for,
NOTE Confidence: 0.96655273

00:37:53.395 --> 00:37:55.015 organ procurement at,
NOTE Confidence: 0.99780273

00:37:55.475 --> 00:37:57.094 those high volume centers.
NOTE Confidence: 0.9557292

00:37:59.210 --> 00:38:00.410 These are some data that
NOTE Confidence: 0.9557292

00:38:00.410 --> 00:38:00.910 show,
NOTE Confidence: 0.9896973

00:38:01.369 --> 00:38:03.790 how this, transplant center volume
NOTE Confidence: 0.987264

00:38:04.250 --> 00:38:06.650 relates to the likelihood of
NOTE Confidence: 0.987264

00:38:06.650 --> 00:38:07.150 transplant.
NOTE Confidence: 0.95410156

00:38:07.690 --> 00:38:08.650 It found that,
NOTE Confidence: 0.9340007

00:38:09.210 --> 00:38:10.349 among the different,
NOTE Confidence: 1

00:38:11.445 --> 00:38:13.445 clinical factors associated with getting
NOTE Confidence: 1

00:38:13.445 --> 00:38:14.185 a transplant
NOTE Confidence: 0.9816081

00:38:14.805 --> 00:38:16.085 was use of,
NOTE Confidence: 0.9529419

00:38:16.725 --> 00:38:18.105 the sorry. The highest,
NOTE Confidence: 0.97490233

00:38:19.605 --> 00:38:21.385 the most important factor for,
NOTE Confidence: 0.9713781

00:38:21.844 --> 00:38:23.364 getting a transplant was being
NOTE Confidence: 0.9713781

00:38:23.364 --> 00:38:25.145 at a high volume transplant

NOTE Confidence: 0.9713781
00:38:25.285 --> 00:38:27.800 center, followed then, by ECMO
NOTE Confidence: 0.9713781
00:38:28.020 --> 00:38:28.760 and then,
NOTE Confidence: 0.99853516
00:38:29.140 --> 00:38:30.440 balloon pump use.
NOTE Confidence: 0.93741864
00:38:31.220 --> 00:38:32.360 And not surprisingly,
NOTE Confidence: 0.9798584
00:38:32.900 --> 00:38:34.100 based on what I've,
NOTE Confidence: 0.9954834
00:38:34.500 --> 00:38:35.720 showed you thus far,
NOTE Confidence: 0.9390869
00:38:36.340 --> 00:38:37.960 the factor least associated
NOTE Confidence: 0.99714005
00:38:38.340 --> 00:38:40.020 with getting a transplant was
NOTE Confidence: 0.99714005
00:38:40.020 --> 00:38:41.000 LVAD use.
NOTE Confidence: 0.96665734
00:38:41.835 --> 00:38:43.915 So, being at, a high
NOTE Confidence: 0.96665734
00:38:43.915 --> 00:38:44.975 volume center,
NOTE Confidence: 0.7805176
00:38:46.635 --> 00:38:47.614 improves significantly,
NOTE Confidence: 1
00:38:48.395 --> 00:38:49.835 your likelihood of getting a
NOTE Confidence: 1
00:38:49.835 --> 00:38:50.335 transplant.
NOTE Confidence: 0.95214844
00:38:51.035 --> 00:38:51.515 Now,
NOTE Confidence: 0.99637276

00:38:52.155 --> 00:38:54.335 imagine if your nearest transplant

NOTE Confidence: 0.99637276

00:38:54.395 --> 00:38:55.375 center didn't

NOTE Confidence: 0.960083

00:38:55.739 --> 00:38:56.960 have a high transplant

NOTE Confidence: 0.88256836

00:38:57.260 --> 00:38:57.760 volume.

NOTE Confidence: 0.9971924

00:38:58.940 --> 00:39:00.620 Would you try to go

NOTE Confidence: 0.9971924

00:39:00.620 --> 00:39:01.660 be listed at a high

NOTE Confidence: 0.9971924

00:39:01.660 --> 00:39:02.640 volume center?

NOTE Confidence: 0.99710083

00:39:03.100 --> 00:39:04.719 What if that wasn't feasible

NOTE Confidence: 0.99710083

00:39:04.780 --> 00:39:06.080 for you economically,

NOTE Confidence: 0.97021484

00:39:06.780 --> 00:39:07.280 geographically?

NOTE Confidence: 0.9289551

00:39:09.614 --> 00:39:10.735 You know? Is that,

NOTE Confidence: 0.9326172

00:39:12.094 --> 00:39:12.815 fair for,

NOTE Confidence: 0.9003906

00:39:13.215 --> 00:39:14.835 patients who are unable to

NOTE Confidence: 0.99736327

00:39:15.135 --> 00:39:16.435 to be at those centers?

NOTE Confidence: 0.97329104

00:39:18.255 --> 00:39:20.114 This is some data that,

NOTE Confidence: 0.9675293

00:39:20.735 --> 00:39:21.235 shows,

NOTE Confidence: 0.9494629
00:39:21.855 --> 00:39:23.795 transplant rates between centers,
NOTE Confidence: 0.95092773
00:39:24.579 --> 00:39:26.520 in the same geographic region.
NOTE Confidence: 0.99658203
00:39:27.059 --> 00:39:27.800 Once again,
NOTE Confidence: 0.963501
00:39:28.260 --> 00:39:29.640 supporting the notion of,
NOTE Confidence: 0.99365234
00:39:30.099 --> 00:39:30.920 center level
NOTE Confidence: 0.98657227
00:39:31.300 --> 00:39:31.800 disparities.
NOTE Confidence: 0.9983724
00:39:32.980 --> 00:39:34.119 Each line represents
NOTE Confidence: 0.99975586
00:39:34.660 --> 00:39:35.880 the range of values
NOTE Confidence: 1
00:39:36.180 --> 00:39:36.555 that
NOTE Confidence: 0.9445801
00:39:37.194 --> 00:39:39.135 exist within a organ procurement
NOTE Confidence: 0.9445801
00:39:39.275 --> 00:39:39.775 organization,
NOTE Confidence: 0.9978693
00:39:40.474 --> 00:39:42.155 and the diamonds represent the
NOTE Confidence: 0.9978693
00:39:42.155 --> 00:39:44.795 individual transplant centers. So despite
NOTE Confidence: 0.9978693
00:39:44.795 --> 00:39:45.295 having
NOTE Confidence: 0.72680664
00:39:45.675 --> 00:39:46.395 this shared,
NOTE Confidence: 0.9995117

00:39:46.954 --> 00:39:47.934 organ supply
NOTE Confidence: 0.94417316

00:39:48.315 --> 00:39:50.335 and a relatively small geographic
NOTE Confidence: 0.94417316

00:39:50.474 --> 00:39:50.974 distance,
NOTE Confidence: 0.99609375

00:39:51.355 --> 00:39:51.835 there were,
NOTE Confidence: 0.9055176

00:39:52.530 --> 00:39:53.989 you know, major differences,
NOTE Confidence: 0.9991455

00:39:55.170 --> 00:39:56.950 in their transplant rates.
NOTE Confidence: 0.897583

00:39:58.050 --> 00:39:58.950 So I was curious,
NOTE Confidence: 0.98165894

00:39:59.410 --> 00:40:00.850 to look into what the
NOTE Confidence: 0.98165894

00:40:00.850 --> 00:40:02.870 high volume centers are doing.
NOTE Confidence: 0.98165894

00:40:03.010 --> 00:40:04.050 And I found a nice
NOTE Confidence: 0.98165894

00:40:04.050 --> 00:40:04.550 study,
NOTE Confidence: 0.99679905

00:40:05.090 --> 00:40:06.610 that found that looked at
NOTE Confidence: 0.99679905

00:40:06.610 --> 00:40:07.810 the practice patterns of
NOTE Confidence: 0.91467285

00:40:08.664 --> 00:40:10.025 at least the listing patterns
NOTE Confidence: 0.91467285

00:40:10.025 --> 00:40:10.525 of,
NOTE Confidence: 0.96573895

00:40:11.065 --> 00:40:12.105 the top ten,

NOTE Confidence: 0.9494629
00:40:12.585 --> 00:40:13.085 performing,
NOTE Confidence: 0.9995117
00:40:14.265 --> 00:40:16.364 heart transplant centers by volume.
NOTE Confidence: 0.9878627
00:40:17.224 --> 00:40:19.144 Even, among this group, I
NOTE Confidence: 0.9878627
00:40:19.144 --> 00:40:19.884 think there's
NOTE Confidence: 1
00:40:20.424 --> 00:40:21.884 a great deal of variability
NOTE Confidence: 0.9630534
00:40:22.489 --> 00:40:23.390 in how they're,
NOTE Confidence: 0.9881999
00:40:23.930 --> 00:40:25.069 listing their patients.
NOTE Confidence: 0.97802734
00:40:25.530 --> 00:40:26.989 But you can see that,
NOTE Confidence: 0.95048827
00:40:28.010 --> 00:40:29.549 in a majority of cases,
NOTE Confidence: 0.99319893
00:40:30.250 --> 00:40:31.770 they're listing their patients at
NOTE Confidence: 0.99319893
00:40:31.770 --> 00:40:32.510 high priority,
NOTE Confidence: 0.9904175
00:40:33.130 --> 00:40:34.589 status one or two,
NOTE Confidence: 0.7841797
00:40:35.705 --> 00:40:36.205 which,
NOTE Confidence: 0.96606445
00:40:36.825 --> 00:40:38.985 once again suggests that there
NOTE Confidence: 0.96606445
00:40:38.985 --> 00:40:40.105 might be there is a
NOTE Confidence: 0.96606445

00:40:40.105 --> 00:40:42.045 component of clinical behavior,
NOTE Confidence: 0.99902344

00:40:42.905 --> 00:40:43.725 that's driving,
NOTE Confidence: 0.99731445

00:40:44.905 --> 00:40:46.665 you know, variable experiences in
NOTE Confidence: 0.99731445

00:40:46.665 --> 00:40:48.125 the transplant process.
NOTE Confidence: 0.99346924

00:40:50.290 --> 00:40:51.430 I read a paper,
NOTE Confidence: 0.86576337

00:40:52.210 --> 00:40:53.589 by the Oregon Procurement
NOTE Confidence: 0.9899089

00:40:54.130 --> 00:40:55.510 and Transplant Network,
NOTE Confidence: 0.9728516

00:40:56.369 --> 00:40:58.469 about the ethics that underline
NOTE Confidence: 0.9123535

00:40:58.930 --> 00:40:59.430 organ,
NOTE Confidence: 0.83569336

00:40:59.890 --> 00:41:00.390 allocation.
NOTE Confidence: 0.9915161

00:41:01.329 --> 00:41:03.555 And it said that equitable
NOTE Confidence: 0.9915161

00:41:03.555 --> 00:41:04.695 access to transplant
NOTE Confidence: 0.99121094

00:41:05.234 --> 00:41:06.614 is dependent on,
NOTE Confidence: 0.99902344

00:41:07.075 --> 00:41:08.135 consistent management
NOTE Confidence: 0.96325684

00:41:08.435 --> 00:41:10.055 of advanced heart failure
NOTE Confidence: 0.9952799

00:41:10.515 --> 00:41:11.335 and cardiogenic

NOTE Confidence: 0.9992676
00:41:11.635 --> 00:41:13.895 shock across transplant centers.
NOTE Confidence: 0.96655273
00:41:15.155 --> 00:41:15.395 So,
NOTE Confidence: 0.9877116
00:41:16.380 --> 00:41:17.259 you know, based on what
NOTE Confidence: 0.9877116
00:41:17.259 --> 00:41:18.700 I've shared with you and
NOTE Confidence: 0.9877116
00:41:18.700 --> 00:41:19.440 what I've,
NOTE Confidence: 0.99658203
00:41:20.059 --> 00:41:20.559 learned,
NOTE Confidence: 0.99960935
00:41:20.940 --> 00:41:22.400 I'm not sure that we're
NOTE Confidence: 0.9230957
00:41:22.700 --> 00:41:23.200 achieving,
NOTE Confidence: 0.91778564
00:41:24.059 --> 00:41:25.680 equity with these substantial,
NOTE Confidence: 1
00:41:27.099 --> 00:41:27.599 variations
NOTE Confidence: 0.95654297
00:41:27.900 --> 00:41:28.400 in,
NOTE Confidence: 0.99365234
00:41:29.660 --> 00:41:31.119 transplant center practices.
NOTE Confidence: 0.9953308
00:41:33.075 --> 00:41:34.355 And I'm not the only
NOTE Confidence: 0.9953308
00:41:34.355 --> 00:41:35.575 one that has,
NOTE Confidence: 0.9867554
00:41:36.355 --> 00:41:38.215 raised concern about potential,
NOTE Confidence: 0.998291

00:41:38.994 --> 00:41:40.775 inequities in this process.

NOTE Confidence: 0.98567706

00:41:41.795 --> 00:41:43.075 This was a New York

NOTE Confidence: 0.98567706

00:41:43.075 --> 00:41:43.575 Times,

NOTE Confidence: 1

00:41:43.955 --> 00:41:45.655 article from last year

NOTE Confidence: 0.9782308

00:41:45.955 --> 00:41:47.849 with sort of a jarring

NOTE Confidence: 0.9782308

00:41:47.849 --> 00:41:48.349 headline.

NOTE Confidence: 0.97924805

00:41:49.130 --> 00:41:49.609 But,

NOTE Confidence: 0.99975586

00:41:49.930 --> 00:41:51.469 the premise was that

NOTE Confidence: 0.99576825

00:41:52.010 --> 00:41:53.369 there's so much, you know,

NOTE Confidence: 0.99576825

00:41:53.369 --> 00:41:53.869 gamesmanship

NOTE Confidence: 0.9995117

00:41:54.410 --> 00:41:55.150 and strategy

NOTE Confidence: 0.9798584

00:41:55.849 --> 00:41:57.230 involved in this process,

NOTE Confidence: 0.9979248

00:41:58.170 --> 00:41:59.930 that, you know, in some

NOTE Confidence: 0.9979248

00:41:59.930 --> 00:42:00.430 instances,

NOTE Confidence: 0.9114583

00:42:01.605 --> 00:42:03.385 the waiting lists are completely

NOTE Confidence: 0.9114583

00:42:03.445 --> 00:42:03.945 bypassed,

NOTE Confidence: 0.98638916
00:42:05.285 --> 00:42:07.225 to direct organs to,
NOTE Confidence: 0.9954427
00:42:07.605 --> 00:42:09.225 certain transplant centers.
NOTE Confidence: 0.9980469
00:42:11.364 --> 00:42:11.765 But,
NOTE Confidence: 0.94478935
00:42:12.165 --> 00:42:13.285 you know, with all this
NOTE Confidence: 0.94478935
00:42:13.285 --> 00:42:14.105 talk about,
NOTE Confidence: 0.9975586
00:42:14.870 --> 00:42:15.370 policy,
NOTE Confidence: 0.98429364
00:42:16.710 --> 00:42:18.230 I wanted to recenter the
NOTE Confidence: 0.98429364
00:42:18.230 --> 00:42:18.730 discussion,
NOTE Confidence: 0.9729492
00:42:20.150 --> 00:42:21.750 to what's most important, and
NOTE Confidence: 0.9729492
00:42:21.750 --> 00:42:23.850 that is, the patient experience.
NOTE Confidence: 0.97907364
00:42:24.950 --> 00:42:25.989 So some of you may
NOTE Confidence: 0.97907364
00:42:25.989 --> 00:42:27.030 remember doctor,
NOTE Confidence: 0.9760471
00:42:27.645 --> 00:42:29.585 Colby Salerno, who was here
NOTE Confidence: 0.9760471
00:42:29.645 --> 00:42:30.765 as one of the advanced
NOTE Confidence: 0.9760471
00:42:30.765 --> 00:42:32.625 heart failure fellows last year
NOTE Confidence: 0.9703776

00:42:33.165 --> 00:42:34.545 and is now a transplant
NOTE Confidence: 0.9703776

00:42:34.605 --> 00:42:35.105 cardiologist
NOTE Confidence: 0.9367676

00:42:35.405 --> 00:42:36.145 at Baystate.
NOTE Confidence: 0.9946696

00:42:37.325 --> 00:42:39.005 And he, has the unique
NOTE Confidence: 0.9946696

00:42:39.005 --> 00:42:39.505 perspective
NOTE Confidence: 0.98151755

00:42:39.980 --> 00:42:41.500 of not only being a
NOTE Confidence: 0.98151755

00:42:41.500 --> 00:42:43.440 transplant cardiologist, but also
NOTE Confidence: 0.99768066

00:42:43.900 --> 00:42:45.520 a heart transplant recipient.
NOTE Confidence: 0.9939453

00:42:46.700 --> 00:42:48.559 And he wrote, an article,
NOTE Confidence: 0.9959717

00:42:49.420 --> 00:42:50.239 last year,
NOTE Confidence: 0.9029541

00:42:50.859 --> 00:42:52.485 in Jack heart failure, which
NOTE Confidence: 0.9029541

00:42:52.565 --> 00:42:53.465 I thought reframed,
NOTE Confidence: 0.9976196

00:42:54.005 --> 00:42:55.705 the discussion pretty nicely.
NOTE Confidence: 0.98520917

00:42:56.165 --> 00:42:58.185 So, I'll read you some
NOTE Confidence: 0.98520917

00:42:58.245 --> 00:42:59.925 some excerpts from that. He
NOTE Confidence: 0.98520917

00:42:59.925 --> 00:43:01.205 said my journey began at

NOTE Confidence: 0.98520917

00:43:01.205 --> 00:43:02.485 age twelve when I was

NOTE Confidence: 0.98520917

00:43:02.485 --> 00:43:04.345 diagnosed with hypertrophic cardiomyopathy.

NOTE Confidence: 0.96083987

00:43:05.510 --> 00:43:06.790 Years later, when I progressed

NOTE Confidence: 0.96083987

00:43:06.790 --> 00:43:07.910 to end stage heart failure,

NOTE Confidence: 0.96083987

00:43:07.910 --> 00:43:09.030 an LVAD was not an

NOTE Confidence: 0.96083987

00:43:09.030 --> 00:43:10.230 option for me, and I

NOTE Confidence: 0.96083987

00:43:10.230 --> 00:43:11.609 was listed for a transplant.

NOTE Confidence: 0.996303

00:43:12.230 --> 00:43:13.430 I spent a hundred and

NOTE Confidence: 0.996303

00:43:13.430 --> 00:43:14.410 eighty consecutive

NOTE Confidence: 0.9986049

00:43:14.710 --> 00:43:16.730 days in the cardiac intensive

NOTE Confidence: 0.9986049

00:43:16.950 --> 00:43:17.690 care unit

NOTE Confidence: 0.87677

00:43:18.285 --> 00:43:20.305 before receiving my life saving

NOTE Confidence: 0.87677

00:43:20.364 --> 00:43:21.984 lifesaving donor heart.

NOTE Confidence: 0.9747784

00:43:22.525 --> 00:43:23.984 And this month will mark,

NOTE Confidence: 0.9747784

00:43:24.125 --> 00:43:25.645 I think, fourteen years since,

NOTE Confidence: 0.9747784

00:43:25.885 --> 00:43:27.505 his initial transplant.
NOTE Confidence: 0.9603882

00:43:28.285 --> 00:43:29.505 I think just the,
NOTE Confidence: 0.9967448

00:43:30.760 --> 00:43:32.540 that that one sentence about
NOTE Confidence: 0.9967448

00:43:32.760 --> 00:43:34.060 the time he waited,
NOTE Confidence: 0.9715983

00:43:35.000 --> 00:43:36.140 is is so,
NOTE Confidence: 0.9769084

00:43:36.760 --> 00:43:39.020 important because, you know, patients,
NOTE Confidence: 0.9769084

00:43:39.080 --> 00:43:40.460 you know, lose their freedom
NOTE Confidence: 0.9769084

00:43:40.600 --> 00:43:41.500 being hospitalized,
NOTE Confidence: 0.9766564

00:43:42.360 --> 00:43:43.400 all of the things that
NOTE Confidence: 0.9766564

00:43:43.400 --> 00:43:45.204 they, you know, love doing
NOTE Confidence: 0.9766564

00:43:45.204 --> 00:43:46.325 outside of the hospital, and
NOTE Confidence: 0.9766564

00:43:46.325 --> 00:43:47.125 it can be such a
NOTE Confidence: 0.9766564

00:43:47.125 --> 00:43:48.645 grueling process. So we have
NOTE Confidence: 0.9766564

00:43:48.645 --> 00:43:49.145 to,
NOTE Confidence: 0.99780273

00:43:49.685 --> 00:43:50.585 remember that.
NOTE Confidence: 0.9746094

00:43:51.364 --> 00:43:52.325 And then, you know, at

NOTE Confidence: 0.9746094
00:43:52.325 --> 00:43:53.364 the bottom here, he said,
NOTE Confidence: 0.9746094
00:43:53.364 --> 00:43:54.585 my story is a testament
NOTE Confidence: 0.9746094
00:43:54.645 --> 00:43:55.844 to the importance of patient
NOTE Confidence: 0.9746094
00:43:55.844 --> 00:43:56.344 preference.
NOTE Confidence: 1
00:43:56.880 --> 00:43:58.319 Patients are more than medical
NOTE Confidence: 1
00:43:58.319 --> 00:43:58.819 conditions
NOTE Confidence: 0.99790037
00:43:59.279 --> 00:44:00.980 or entries on a transplant
NOTE Confidence: 0.99790037
00:44:01.119 --> 00:44:03.539 list. They have dreams, aspirations,
NOTE Confidence: 0.9996745
00:44:03.839 --> 00:44:05.140 and unique definitions
NOTE Confidence: 0.99934894
00:44:05.920 --> 00:44:06.900 of what constitutes
NOTE Confidence: 1
00:44:07.200 --> 00:44:08.579 a life worth living.
NOTE Confidence: 0.9852013
00:44:12.355 --> 00:44:13.714 So just circling back to
NOTE Confidence: 0.9852013
00:44:13.714 --> 00:44:15.255 the the case I presented
NOTE Confidence: 0.9852013
00:44:15.315 --> 00:44:16.135 at the beginning,
NOTE Confidence: 0.99853516
00:44:17.315 --> 00:44:17.974 I think
NOTE Confidence: 0.973584

00:44:18.355 --> 00:44:19.954 through this talk, I've highlighted

NOTE Confidence: 0.973584

00:44:19.954 --> 00:44:21.815 a few different points where,

NOTE Confidence: 0.99975586

00:44:22.539 --> 00:44:23.200 a patient's

NOTE Confidence: 0.97328407

00:44:23.500 --> 00:44:25.119 likelihood of getting a transplant

NOTE Confidence: 0.97328407

00:44:25.180 --> 00:44:25.920 could be,

NOTE Confidence: 1

00:44:26.380 --> 00:44:26.880 significantly

NOTE Confidence: 1

00:44:27.180 --> 00:44:27.680 impacted.

NOTE Confidence: 1

00:44:27.980 --> 00:44:29.099 We didn't really get into

NOTE Confidence: 1

00:44:29.099 --> 00:44:30.799 the individual patient

NOTE Confidence: 0.9995117

00:44:31.099 --> 00:44:31.760 and his

NOTE Confidence: 0.9449056

00:44:32.219 --> 00:44:33.680 specific risk factors,

NOTE Confidence: 0.99934894

00:44:34.059 --> 00:44:35.934 but, you know, knowing whether

NOTE Confidence: 0.99934894

00:44:35.934 --> 00:44:37.075 he could even be

NOTE Confidence: 0.90999347

00:44:37.614 --> 00:44:39.474 a candidate that's listed as

NOTE Confidence: 0.90999347

00:44:39.535 --> 00:44:41.135 a huge consideration in and

NOTE Confidence: 0.90999347

00:44:41.135 --> 00:44:41.875 of itself.

NOTE Confidence: 0.9728461
00:44:42.575 --> 00:44:44.355 The choice of MCS was
NOTE Confidence: 0.9728461
00:44:44.494 --> 00:44:44.994 impactful,
NOTE Confidence: 0.9959961
00:44:46.175 --> 00:44:47.614 choosing a status one or
NOTE Confidence: 0.9959961
00:44:47.614 --> 00:44:49.395 two listing for that patient,
NOTE Confidence: 0.96940106
00:44:50.940 --> 00:44:52.480 submitting exception requests,
NOTE Confidence: 0.93066406
00:44:53.180 --> 00:44:53.820 and then,
NOTE Confidence: 0.93518066
00:44:54.300 --> 00:44:55.420 acceptance of,
NOTE Confidence: 0.94732666
00:44:55.739 --> 00:44:57.359 the donor organ that,
NOTE Confidence: 0.97446287
00:44:57.820 --> 00:44:59.599 came from a hepatitis c,
NOTE Confidence: 0.9885254
00:45:00.140 --> 00:45:00.640 donor.
NOTE Confidence: 0.9329834
00:45:01.339 --> 00:45:01.739 And then,
NOTE Confidence: 0.915332
00:45:02.795 --> 00:45:05.215 also important but not necessarily
NOTE Confidence: 0.8855591
00:45:05.915 --> 00:45:07.055 involved in the case,
NOTE Confidence: 0.98742676
00:45:07.675 --> 00:45:09.535 the transplant center volume.
NOTE Confidence: 0.99365234
00:45:11.515 --> 00:45:12.495 So to conclude,
NOTE Confidence: 0.96655273

00:45:13.355 --> 00:45:15.375 the takeaway messages would be

NOTE Confidence: 0.96655273

00:45:15.594 --> 00:45:15.995 that,

NOTE Confidence: 0.9975586

00:45:16.930 --> 00:45:18.710 center level variation is

NOTE Confidence: 0.7291667

00:45:19.090 --> 00:45:20.150 a real phenomenon,

NOTE Confidence: 0.990918

00:45:21.090 --> 00:45:22.390 and can lead to variable

NOTE Confidence: 0.9817708

00:45:22.770 --> 00:45:24.290 pathways to getting a heart

NOTE Confidence: 0.9817708

00:45:24.290 --> 00:45:24.790 transplant.

NOTE Confidence: 0.9824219

00:45:25.330 --> 00:45:25.730 And,

NOTE Confidence: 0.946696

00:45:26.130 --> 00:45:27.510 the transplant center,

NOTE Confidence: 1

00:45:27.969 --> 00:45:29.110 can be a significant

NOTE Confidence: 0.8968506

00:45:29.650 --> 00:45:30.630 factor itself,

NOTE Confidence: 0.99698895

00:45:31.925 --> 00:45:32.985 in that journey.

NOTE Confidence: 0.9855957

00:45:33.605 --> 00:45:34.105 And,

NOTE Confidence: 0.9773093

00:45:34.645 --> 00:45:36.425 sort of the analogy that

NOTE Confidence: 0.9773093

00:45:36.645 --> 00:45:38.265 a lot of people who

NOTE Confidence: 0.9773093

00:45:38.325 --> 00:45:39.864 work in the space share

NOTE Confidence: 0.9773093
00:45:40.085 --> 00:45:40.825 is that,
NOTE Confidence: 0.9906006
00:45:41.685 --> 00:45:43.145 since two thousand eighteen,
NOTE Confidence: 0.99902344
00:45:43.445 --> 00:45:44.105 the rules
NOTE Confidence: 0.9980469
00:45:44.485 --> 00:45:44.985 of
NOTE Confidence: 0.983195
00:45:45.800 --> 00:45:47.640 the allocation process game were
NOTE Confidence: 0.983195
00:45:47.640 --> 00:45:48.140 changed.
NOTE Confidence: 0.9581706
00:45:48.760 --> 00:45:49.900 And then, subsequently,
NOTE Confidence: 0.98999023
00:45:50.200 --> 00:45:51.719 as we've seen, the the
NOTE Confidence: 0.98999023
00:45:51.719 --> 00:45:53.000 players in that game, the
NOTE Confidence: 0.98999023
00:45:53.000 --> 00:45:54.060 transplant centers,
NOTE Confidence: 0.9975586
00:45:54.440 --> 00:45:55.180 the patients,
NOTE Confidence: 0.9944255
00:45:55.480 --> 00:45:56.920 they sort of adapted their
NOTE Confidence: 0.9944255
00:45:56.920 --> 00:45:57.420 strategy,
NOTE Confidence: 0.99970704
00:45:58.200 --> 00:45:59.560 to give themselves the best
NOTE Confidence: 0.99970704
00:45:59.560 --> 00:46:00.940 chance to win the game.
NOTE Confidence: 0.9666341

00:46:01.415 --> 00:46:01.734 So I think,
NOTE Confidence: 0.99975586

00:46:02.614 --> 00:46:03.515 going forward,
NOTE Confidence: 0.96972656

00:46:04.295 --> 00:46:06.094 we need to reevaluate some
NOTE Confidence: 0.96972656

00:46:06.335 --> 00:46:06.835 of,
NOTE Confidence: 0.994222

00:46:07.815 --> 00:46:09.275 the rules of the game
NOTE Confidence: 0.994222

00:46:09.494 --> 00:46:09.974 to,
NOTE Confidence: 0.9998779

00:46:10.455 --> 00:46:12.135 try to better achieve equity
NOTE Confidence: 0.9998779

00:46:12.135 --> 00:46:13.114 in this process.
NOTE Confidence: 0.98168945

00:46:14.840 --> 00:46:15.719 So I'd just like to
NOTE Confidence: 0.98168945

00:46:15.719 --> 00:46:16.200 thank,
NOTE Confidence: 0.87719727

00:46:16.680 --> 00:46:18.540 doctors Ahmad and Sikand
NOTE Confidence: 0.8933919

00:46:19.000 --> 00:46:19.900 as well as,
NOTE Confidence: 0.9239014

00:46:20.520 --> 00:46:22.200 doctors Sen and Clark in
NOTE Confidence: 0.9239014

00:46:22.200 --> 00:46:23.980 our heart failure division who,
NOTE Confidence: 0.9724296

00:46:24.760 --> 00:46:26.505 have not only been clinical
NOTE Confidence: 0.9724296

00:46:26.505 --> 00:46:28.664 mentors, research mentors, but they

NOTE Confidence: 0.9724296

00:46:28.664 --> 00:46:29.964 really helped me with,

NOTE Confidence: 0.9789836

00:46:31.704 --> 00:46:33.145 coming up with this concept

NOTE Confidence: 0.9789836

00:46:33.145 --> 00:46:35.305 and and and presenting this

NOTE Confidence: 0.9789836

00:46:35.305 --> 00:46:36.045 talk today.

NOTE Confidence: 0.9950358

00:46:36.585 --> 00:46:38.424 The fellowship program for supporting

NOTE Confidence: 0.9950358

00:46:38.424 --> 00:46:39.484 me through the years.

NOTE Confidence: 0.98343915

00:46:41.489 --> 00:46:42.610 That's it. Thank you very

NOTE Confidence: 0.98343915

00:46:42.610 --> 00:46:43.110 much.

NOTE Confidence: 0.46414185

00:46:54.795 --> 00:46:55.695 Alright. Good

NOTE Confidence: 0.9975586

00:46:56.795 --> 00:46:57.295 job.

NOTE Confidence: 0.92807007

00:47:01.675 --> 00:47:02.955 Mike, and that was just

NOTE Confidence: 0.92807007

00:47:03.035 --> 00:47:03.835 that was a really great

NOTE Confidence: 0.92807007

00:47:03.835 --> 00:47:04.795 talk. I learned a a

NOTE Confidence: 0.92807007

00:47:04.795 --> 00:47:05.295 ton

NOTE Confidence: 0.9575521

00:47:05.690 --> 00:47:07.290 to both, you know, increasing

NOTE Confidence: 0.9575521

00:47:07.290 --> 00:47:08.590 my knowledge also is disturbing
NOTE Confidence: 0.9575521

00:47:08.810 --> 00:47:10.590 to now understand that knowledge.
NOTE Confidence: 0.92388237

00:47:11.450 --> 00:47:12.489 And so, you know, it's
NOTE Confidence: 0.92388237

00:47:12.489 --> 00:47:13.870 kind of like under,
NOTE Confidence: 0.99431664

00:47:14.170 --> 00:47:15.210 you know, looking at the
NOTE Confidence: 0.99431664

00:47:15.210 --> 00:47:16.650 carried interest deduction and how
NOTE Confidence: 0.99431664

00:47:16.650 --> 00:47:18.410 that's impacted, you know, the
NOTE Confidence: 0.99431664

00:47:18.410 --> 00:47:20.025 choice of careers for our
NOTE Confidence: 0.99431664

00:47:20.025 --> 00:47:21.545 youth and going into, you
NOTE Confidence: 0.99431664

00:47:21.545 --> 00:47:23.224 know, the capital markets and
NOTE Confidence: 0.99431664

00:47:23.224 --> 00:47:24.344 and how the rules of
NOTE Confidence: 0.99431664

00:47:24.344 --> 00:47:25.464 the game, like you said,
NOTE Confidence: 0.99431664

00:47:25.464 --> 00:47:26.605 impact our practice.
NOTE Confidence: 0.91762966

00:47:26.905 --> 00:47:28.424 So giving you the benefit
NOTE Confidence: 0.91762966

00:47:28.424 --> 00:47:29.305 of the doubt though, since
NOTE Confidence: 0.91762966

00:47:29.305 --> 00:47:30.905 we're all ethical physicians here

NOTE Confidence: 0.91762966
00:47:30.905 --> 00:47:31.885 in this space,
NOTE Confidence: 0.9916992
00:47:32.424 --> 00:47:34.125 is there data to support
NOTE Confidence: 0.9790039
00:47:34.984 --> 00:47:35.224 that
NOTE Confidence: 0.9104876
00:47:35.840 --> 00:47:36.880 is there any data to
NOTE Confidence: 0.9104876
00:47:36.880 --> 00:47:38.400 support the change that the
NOTE Confidence: 0.9104876
00:47:38.400 --> 00:47:39.460 change in the rules
NOTE Confidence: 0.9753825
00:47:39.840 --> 00:47:41.680 and the adaptation to the
NOTE Confidence: 0.9753825
00:47:41.680 --> 00:47:43.040 increase or more frequent use
NOTE Confidence: 0.9753825
00:47:43.040 --> 00:47:43.780 of MCS
NOTE Confidence: 0.9290568
00:47:44.239 --> 00:47:45.920 has changed outcomes even for
NOTE Confidence: 0.9290568
00:47:45.920 --> 00:47:47.520 subgroups of populations, those higher
NOTE Confidence: 0.9290568
00:47:47.520 --> 00:47:48.260 risk populations.
NOTE Confidence: 0.9628906
00:47:48.719 --> 00:47:49.540 Was that,
NOTE Confidence: 0.99902344
00:47:50.105 --> 00:47:50.605 accentuation
NOTE Confidence: 0.9656738
00:47:51.305 --> 00:47:52.505 and adaptation to the rules
NOTE Confidence: 0.9656738

00:47:52.505 --> 00:47:53.864 associated with any change in

NOTE Confidence: 0.9656738

00:47:54.025 --> 00:47:55.565 or improvement in in care?

NOTE Confidence: 0.91323245

00:47:57.944 --> 00:47:59.785 What I can say that,

NOTE Confidence: 0.9996745

00:48:01.065 --> 00:48:02.585 in terms of determining the

NOTE Confidence: 0.9996745

00:48:02.585 --> 00:48:03.085 causality

NOTE Confidence: 0.9772781

00:48:03.545 --> 00:48:05.619 between, you know, selecting an

NOTE Confidence: 0.9772781

00:48:05.619 --> 00:48:07.540 m c MCS device or

NOTE Confidence: 0.9772781

00:48:07.540 --> 00:48:08.980 not, I think just the

NOTE Confidence: 0.9772781

00:48:08.980 --> 00:48:10.260 pattern that we see over

NOTE Confidence: 0.9772781

00:48:10.260 --> 00:48:11.380 and over between all these

NOTE Confidence: 0.9772781

00:48:11.380 --> 00:48:12.920 studies is pretty clear.

NOTE Confidence: 0.9901968

00:48:14.020 --> 00:48:15.219 However, we can't really, you

NOTE Confidence: 0.9901968

00:48:15.219 --> 00:48:16.420 know, link it a hundred

NOTE Confidence: 0.9901968

00:48:16.420 --> 00:48:17.400 percent to that.

NOTE Confidence: 0.927653

00:48:18.100 --> 00:48:18.975 In terms of,

NOTE Confidence: 0.99572754

00:48:19.614 --> 00:48:20.675 overall outcomes,

NOTE Confidence: 0.9486844

00:48:21.295 --> 00:48:22.175 not really sure. I don't

NOTE Confidence: 0.9486844

00:48:22.175 --> 00:48:23.135 know if you have any

NOTE Confidence: 0.9486844

00:48:23.175 --> 00:48:25.215 I mean, that's a incredible

NOTE Confidence: 0.9486844

00:48:25.215 --> 00:48:26.655 question, and it's, one of

NOTE Confidence: 0.9486844

00:48:26.655 --> 00:48:27.855 the things that we addressed

NOTE Confidence: 0.9486844

00:48:27.855 --> 00:48:28.975 in that JAC paper that

NOTE Confidence: 0.9486844

00:48:28.975 --> 00:48:30.755 showed that the durable LVADs

NOTE Confidence: 0.9486844

00:48:30.895 --> 00:48:31.555 went down.

NOTE Confidence: 0.9651093

00:48:32.310 --> 00:48:33.750 So the before two thousand

NOTE Confidence: 0.9651093

00:48:33.750 --> 00:48:35.190 and eighteen, the patients who

NOTE Confidence: 0.9651093

00:48:35.190 --> 00:48:36.550 were critically ill would end

NOTE Confidence: 0.9651093

00:48:36.550 --> 00:48:38.170 up getting an LVAD.

NOTE Confidence: 0.9995117

00:48:38.710 --> 00:48:39.530 Those patients

NOTE Confidence: 0.9939128

00:48:39.989 --> 00:48:41.610 are now getting heart transplants.

NOTE Confidence: 0.9698639

00:48:42.630 --> 00:48:43.510 So if you were to

NOTE Confidence: 0.9698639

00:48:43.510 --> 00:48:44.790 say that, you know, for
NOTE Confidence: 0.9698639

00:48:44.790 --> 00:48:46.390 a young person getting an
NOTE Confidence: 0.9698639

00:48:46.390 --> 00:48:46.890 LVAD
NOTE Confidence: 0.9560547

00:48:47.190 --> 00:48:47.625 is better
NOTE Confidence: 0.9610408

00:48:48.265 --> 00:48:49.625 heart transplant, I think most
NOTE Confidence: 0.9610408

00:48:49.625 --> 00:48:50.585 people in our field would
NOTE Confidence: 0.9610408

00:48:50.585 --> 00:48:51.485 say a transplant.
NOTE Confidence: 0.9718756

00:48:52.265 --> 00:48:53.625 From a Kaplan Meier point
NOTE Confidence: 0.9718756

00:48:53.625 --> 00:48:54.505 of view, they may be
NOTE Confidence: 0.9718756

00:48:54.505 --> 00:48:56.265 equivalent. But what happened was
NOTE Confidence: 0.9718756

00:48:56.265 --> 00:48:57.225 that the patients who are
NOTE Confidence: 0.9718756

00:48:57.225 --> 00:48:58.825 getting LVADs are now getting
NOTE Confidence: 0.9718756

00:48:58.825 --> 00:48:59.565 heart transplants.
NOTE Confidence: 0.9800293

00:49:00.200 --> 00:49:02.380 So that's where, the move,
NOTE Confidence: 0.9964076

00:49:02.760 --> 00:49:03.880 you know, you went from,
NOTE Confidence: 0.9964076

00:49:03.880 --> 00:49:04.700 like, mechanical

NOTE Confidence: 0.9850987

00:49:05.160 --> 00:49:07.000 durable support to temporary support

NOTE Confidence: 0.9850987

00:49:07.000 --> 00:49:08.040 to get a heart transplant.

NOTE Confidence: 0.9850987

00:49:08.040 --> 00:49:09.080 So that's the big and

NOTE Confidence: 0.9850987

00:49:09.080 --> 00:49:10.360 then the number of heart

NOTE Confidence: 0.9850987

00:49:10.360 --> 00:49:12.120 transplants, like, tripled during this

NOTE Confidence: 0.9850987

00:49:12.120 --> 00:49:13.020 time as well.

NOTE Confidence: 0.97332764

00:49:15.114 --> 00:49:16.154 Just to add on to

NOTE Confidence: 0.97332764

00:49:16.154 --> 00:49:17.515 that, I think and to

NOTE Confidence: 0.97332764

00:49:17.515 --> 00:49:18.174 tie into

NOTE Confidence: 0.9931946

00:49:18.635 --> 00:49:19.835 Mike's talk, there's a lot

NOTE Confidence: 0.9931946

00:49:19.835 --> 00:49:21.214 of center variability

NOTE Confidence: 0.9923429

00:49:21.594 --> 00:49:23.515 based on that. So depending

NOTE Confidence: 0.9923429

00:49:23.515 --> 00:49:24.954 on what center you're seen

NOTE Confidence: 0.9923429

00:49:24.954 --> 00:49:25.454 at,

NOTE Confidence: 0.9851296

00:49:26.154 --> 00:49:27.674 even after the two thousand

NOTE Confidence: 0.9851296

00:49:27.674 --> 00:49:29.540 eighteen change, you may be
NOTE Confidence: 0.9851296

00:49:29.540 --> 00:49:30.660 more likely to get a
NOTE Confidence: 0.9851296

00:49:30.660 --> 00:49:32.020 heart transplant, but at a
NOTE Confidence: 0.9851296

00:49:32.020 --> 00:49:32.840 different center,
NOTE Confidence: 0.98683965

00:49:33.300 --> 00:49:34.500 the same patient may get
NOTE Confidence: 0.98683965

00:49:34.500 --> 00:49:35.080 an LVAD.
NOTE Confidence: 0.99731445

00:49:35.619 --> 00:49:36.680 And I think that's
NOTE Confidence: 0.9819987

00:49:37.060 --> 00:49:39.400 something that is not really
NOTE Confidence: 0.9819987

00:49:39.540 --> 00:49:41.140 known, and I think patients
NOTE Confidence: 0.9819987

00:49:41.140 --> 00:49:42.795 themselves don't really know this.
NOTE Confidence: 0.9923096

00:49:43.275 --> 00:49:44.474 So it really depends on
NOTE Confidence: 0.9923096

00:49:44.474 --> 00:49:46.315 what hospital you you are
NOTE Confidence: 0.9923096

00:49:46.315 --> 00:49:47.055 seen at
NOTE Confidence: 0.94811404

00:49:47.355 --> 00:49:48.555 or what health system you're
NOTE Confidence: 0.94811404

00:49:48.555 --> 00:49:49.674 seen at, because a lot
NOTE Confidence: 0.94811404

00:49:49.674 --> 00:49:51.515 of transplant centers are obviously

NOTE Confidence: 0.94811404

00:49:51.515 --> 00:49:52.974 part of bigger health systems.

NOTE Confidence: 0.9705044

00:49:53.355 --> 00:49:54.714 And so most patients are

NOTE Confidence: 0.9705044

00:49:54.714 --> 00:49:56.395 not being evaluated initially at

NOTE Confidence: 0.9705044

00:49:56.395 --> 00:49:57.730 a heart transplant center, but

NOTE Confidence: 0.9705044

00:49:57.730 --> 00:49:58.710 are seen in an affiliate

NOTE Confidence: 0.9705044

00:49:58.770 --> 00:50:00.370 hospital and subsequently referred in.

NOTE Confidence: 0.9705044

00:50:00.370 --> 00:50:02.130 So wherever your referral pattern

NOTE Confidence: 0.9705044

00:50:02.130 --> 00:50:03.730 goes to would then depend

NOTE Confidence: 0.9705044

00:50:03.730 --> 00:50:04.530 sort of what kind of

NOTE Confidence: 0.9705044

00:50:04.530 --> 00:50:05.590 therapy you got.

NOTE Confidence: 0.95561874

00:50:09.410 --> 00:50:10.565 Yeah. I'll ask a question

NOTE Confidence: 0.95561874

00:50:10.565 --> 00:50:11.785 while I'm moving around here.

NOTE Confidence: 0.95561874

00:50:11.844 --> 00:50:13.684 So you shared some,

NOTE Confidence: 0.99853516

00:50:14.085 --> 00:50:15.144 observations that

NOTE Confidence: 0.98046875

00:50:15.844 --> 00:50:17.864 the, transplant volume

NOTE Confidence: 0.9998372

00:50:18.404 --> 00:50:20.005 influences the likelihood of an

NOTE Confidence: 0.9998372

00:50:20.005 --> 00:50:20.505 organ

NOTE Confidence: 0.65930176

00:50:20.805 --> 00:50:21.545 being allocated.

NOTE Confidence: 0.93882245

00:50:22.680 --> 00:50:23.800 And I'm curious if you

NOTE Confidence: 0.93882245

00:50:23.800 --> 00:50:25.080 can explore that a little

NOTE Confidence: 0.93882245

00:50:25.080 --> 00:50:25.900 bit. And,

NOTE Confidence: 0.9737142

00:50:28.200 --> 00:50:29.320 what does that mean with

NOTE Confidence: 0.9737142

00:50:29.320 --> 00:50:29.820 regards

NOTE Confidence: 0.9300049

00:50:30.599 --> 00:50:32.359 to the utilization of of

NOTE Confidence: 0.9300049

00:50:32.359 --> 00:50:35.260 sub substandard organs, hep c,

NOTE Confidence: 0.9987793

00:50:35.875 --> 00:50:36.114 you know,

NOTE Confidence: 0.9298096

00:50:36.755 --> 00:50:38.275 organs that come that need

NOTE Confidence: 0.9298096

00:50:38.275 --> 00:50:39.415 that need bypass

NOTE Confidence: 0.946696

00:50:39.715 --> 00:50:40.855 from older owners.

NOTE Confidence: 0.9970703

00:50:41.875 --> 00:50:43.655 Can you explore whether

NOTE Confidence: 1

00:50:43.955 --> 00:50:45.715 those centers are doing more

NOTE Confidence: 1
00:50:45.715 --> 00:50:46.375 of that
NOTE Confidence: 0.7390137
00:50:46.835 --> 00:50:47.335 to,
NOTE Confidence: 0.9140625
00:50:48.035 --> 00:50:48.935 you know, to
NOTE Confidence: 0.94245255
00:50:49.869 --> 00:50:51.630 to game the system to
NOTE Confidence: 0.94245255
00:50:51.630 --> 00:50:52.609 be more,
NOTE Confidence: 0.9992676
00:50:53.150 --> 00:50:55.250 you know, acceptable for
NOTE Confidence: 0.9296875
00:50:55.550 --> 00:50:56.849 allocation requests.
NOTE Confidence: 0.9916992
00:50:57.310 --> 00:50:57.810 Mhmm.
NOTE Confidence: 0.9637858
00:50:58.190 --> 00:50:59.150 Yes. I think,
NOTE Confidence: 0.9861537
00:50:59.869 --> 00:51:01.310 there is some data to
NOTE Confidence: 0.9861537
00:51:01.310 --> 00:51:02.369 support that,
NOTE Confidence: 0.4050293
00:51:02.750 --> 00:51:03.250 you
NOTE Confidence: 0.9479167
00:51:04.355 --> 00:51:06.035 organs that are considered of
NOTE Confidence: 0.9479167
00:51:06.035 --> 00:51:08.434 marginal quality are being used
NOTE Confidence: 0.9479167
00:51:08.434 --> 00:51:10.275 up by those high volume
NOTE Confidence: 0.9479167

00:51:10.275 --> 00:51:12.035 centers and that they're being,

NOTE Confidence: 0.9479167

00:51:12.035 --> 00:51:13.474 you know, more aggressive in

NOTE Confidence: 0.9479167

00:51:13.474 --> 00:51:16.055 working with the, organ procurement

NOTE Confidence: 0.97314453

00:51:16.779 --> 00:51:17.279 networks,

NOTE Confidence: 0.999442

00:51:18.299 --> 00:51:19.660 to, you know, get access

NOTE Confidence: 0.999442

00:51:19.660 --> 00:51:20.319 to those,

NOTE Confidence: 0.9976981

00:51:21.019 --> 00:51:22.880 you know, organs and transplant

NOTE Confidence: 0.9976981

00:51:23.019 --> 00:51:23.759 their patients.

NOTE Confidence: 0.99401855

00:51:24.619 --> 00:51:26.160 You know, something else I

NOTE Confidence: 0.99401855

00:51:26.219 --> 00:51:27.739 I didn't address is that

NOTE Confidence: 0.99401855

00:51:27.739 --> 00:51:28.640 there's also

NOTE Confidence: 0.98673505

00:51:28.940 --> 00:51:29.920 sort of this,

NOTE Confidence: 0.9992676

00:51:30.344 --> 00:51:31.244 you know, balance between,

NOTE Confidence: 0.9166667

00:51:32.984 --> 00:51:34.125 you know, volume,

NOTE Confidence: 0.9144287

00:51:34.825 --> 00:51:35.965 outcomes, which,

NOTE Confidence: 0.9995117

00:51:36.585 --> 00:51:37.724 are significantly

NOTE Confidence: 0.89607745
00:51:38.265 --> 00:51:40.045 important in reimbursement,
NOTE Confidence: 0.98132324
00:51:40.905 --> 00:51:42.125 structures that,
NOTE Confidence: 0.9926758
00:51:42.825 --> 00:51:43.565 are provided.
NOTE Confidence: 0.97999793
00:51:43.945 --> 00:51:45.330 So, you know, obviously, you
NOTE Confidence: 0.97999793
00:51:45.330 --> 00:51:47.170 wanna have very good outcomes,
NOTE Confidence: 0.97999793
00:51:47.170 --> 00:51:48.310 which would help with,
NOTE Confidence: 1
00:51:48.850 --> 00:51:49.670 your reimbursement
NOTE Confidence: 0.89538574
00:51:49.970 --> 00:51:50.710 for procedures,
NOTE Confidence: 0.99943036
00:51:51.170 --> 00:51:52.530 but you also want to
NOTE Confidence: 0.99943036
00:51:52.530 --> 00:51:53.030 have,
NOTE Confidence: 0.95654297
00:51:54.210 --> 00:51:55.810 you know, high volume of
NOTE Confidence: 0.95654297
00:51:55.810 --> 00:51:56.310 transplants
NOTE Confidence: 0.99975586
00:51:56.690 --> 00:51:57.910 to be able to
NOTE Confidence: 0.95532227
00:52:00.575 --> 00:52:01.474 offer patients.
NOTE Confidence: 0.9655762
00:52:02.015 --> 00:52:02.494 And,
NOTE Confidence: 0.98773193

00:52:03.135 --> 00:52:04.015 I think some of the
NOTE Confidence: 0.98773193

00:52:04.015 --> 00:52:05.075 data I presented,
NOTE Confidence: 0.95806015

00:52:06.015 --> 00:52:07.775 suggests that, you know, we
NOTE Confidence: 0.95806015

00:52:07.775 --> 00:52:09.954 can explore being a little
NOTE Confidence: 0.95806015

00:52:10.015 --> 00:52:11.214 a little bit more,
NOTE Confidence: 0.9805664

00:52:11.775 --> 00:52:12.895 lenient in terms of the,
NOTE Confidence: 0.949771

00:52:14.400 --> 00:52:15.599 you know, quality of the
NOTE Confidence: 0.949771

00:52:15.599 --> 00:52:16.500 organ. We're,
NOTE Confidence: 0.9862793

00:52:17.760 --> 00:52:19.700 you know, allowing for patients,
NOTE Confidence: 0.9855957

00:52:20.480 --> 00:52:22.559 with the caveat that we,
NOTE Confidence: 0.9855957

00:52:22.559 --> 00:52:24.339 you know, have these discussions
NOTE Confidence: 0.9855957

00:52:24.480 --> 00:52:25.760 with the patient, assess their
NOTE Confidence: 0.9855957

00:52:25.760 --> 00:52:27.520 preference, assess the the risk
NOTE Confidence: 0.9855957

00:52:27.520 --> 00:52:29.219 benefits for that individual
NOTE Confidence: 0.9995117

00:52:29.520 --> 00:52:30.020 person.
NOTE Confidence: 0.9441732

00:52:30.425 --> 00:52:31.224 Yeah. And that maybe is

NOTE Confidence: 0.9441732
00:52:31.224 --> 00:52:31.805 a follow-up
NOTE Confidence: 0.98612976
00:52:32.344 --> 00:52:33.545 comment I'd like to explore
NOTE Confidence: 0.98612976
00:52:33.545 --> 00:52:35.065 as well, which is the
NOTE Confidence: 0.98612976
00:52:35.065 --> 00:52:36.825 role of the patient in
NOTE Confidence: 0.98612976
00:52:36.825 --> 00:52:37.325 deciding
NOTE Confidence: 0.96204835
00:52:38.265 --> 00:52:39.385 the limits of the types
NOTE Confidence: 0.96204835
00:52:39.385 --> 00:52:40.505 of organs that they might
NOTE Confidence: 0.96204835
00:52:40.505 --> 00:52:41.945 be willing to accept. So
NOTE Confidence: 0.96204835
00:52:41.945 --> 00:52:43.885 could you, help us understand,
NOTE Confidence: 0.97202843
00:52:45.219 --> 00:52:46.739 the shared decision making around
NOTE Confidence: 0.97202843
00:52:46.739 --> 00:52:47.640 hep c
NOTE Confidence: 0.9434291
00:52:48.180 --> 00:52:50.260 and marginal donors and and
NOTE Confidence: 0.9434291
00:52:50.260 --> 00:52:51.239 what discussions
NOTE Confidence: 0.9195964
00:52:51.540 --> 00:52:52.900 happen with patients and what
NOTE Confidence: 0.9195964
00:52:52.900 --> 00:52:53.960 are what's an expected
NOTE Confidence: 0.902474

00:52:54.340 --> 00:52:55.780 kind of pathway for that
NOTE Confidence: 0.902474

00:52:55.780 --> 00:52:56.980 that decision or are they
NOTE Confidence: 0.902474

00:52:56.980 --> 00:52:58.360 not involved at all? And
NOTE Confidence: 0.9466471

00:52:58.734 --> 00:53:00.415 and, yeah. So I think
NOTE Confidence: 0.9466471

00:53:00.415 --> 00:53:01.295 I know the answer, but
NOTE Confidence: 0.9466471

00:53:01.295 --> 00:53:02.355 but if you get to
NOTE Confidence: 0.96011466

00:53:02.655 --> 00:53:04.415 get, to get your perspective,
NOTE Confidence: 0.96011466

00:53:04.415 --> 00:53:05.214 and, Nick, you might have
NOTE Confidence: 0.96011466

00:53:05.214 --> 00:53:05.935 to Nick, you might have
NOTE Confidence: 0.96011466

00:53:05.935 --> 00:53:06.575 to go up to the
NOTE Confidence: 0.96011466

00:53:06.575 --> 00:53:07.855 podium there. Yeah. I mean,
NOTE Confidence: 0.96011466

00:53:07.855 --> 00:53:09.295 I can I'll let these
NOTE Confidence: 0.96011466

00:53:09.295 --> 00:53:10.734 guys speak to that because
NOTE Confidence: 0.96011466

00:53:10.734 --> 00:53:11.855 they do it more often.
NOTE Confidence: 0.96011466

00:53:11.855 --> 00:53:12.734 But I can tell you
NOTE Confidence: 0.96011466

00:53:12.734 --> 00:53:14.285 even when I was, you

NOTE Confidence: 0.96011466
00:53:14.550 --> 00:53:15.770 you know, training on
NOTE Confidence: 0.9771554
00:53:16.150 --> 00:53:17.750 the advanced heart failure service,
NOTE Confidence: 0.9771554
00:53:17.750 --> 00:53:18.330 I remember,
NOTE Confidence: 0.9955798
00:53:18.710 --> 00:53:19.830 you know, seeing a patient
NOTE Confidence: 0.9955798
00:53:19.830 --> 00:53:21.350 similar to the one I
NOTE Confidence: 0.9955798
00:53:21.350 --> 00:53:23.190 presented. In this case, his
NOTE Confidence: 0.9955798
00:53:23.190 --> 00:53:24.570 wait time had been
NOTE Confidence: 1
00:53:24.950 --> 00:53:25.450 significantly
NOTE Confidence: 0.7512207
00:53:25.750 --> 00:53:26.250 longer,
NOTE Confidence: 0.90356445
00:53:26.630 --> 00:53:27.110 and,
NOTE Confidence: 0.995497
00:53:27.675 --> 00:53:28.475 I think he had had
NOTE Confidence: 0.995497
00:53:28.475 --> 00:53:30.575 some initial resistance to
NOTE Confidence: 0.94018555
00:53:30.875 --> 00:53:32.635 this specific question of a
NOTE Confidence: 0.94018555
00:53:32.635 --> 00:53:34.094 hepatitis c donor.
NOTE Confidence: 0.99891496
00:53:35.035 --> 00:53:36.635 And it took, you know,
NOTE Confidence: 0.99891496

00:53:36.635 --> 00:53:37.935 a number of conversations
NOTE Confidence: 0.9699707

00:53:38.395 --> 00:53:38.895 where,
NOTE Confidence: 0.88811034

00:53:40.980 --> 00:53:42.520 actually, it was doctor Salerno,
NOTE Confidence: 0.97928876

00:53:43.460 --> 00:53:44.820 who, you know, was, you
NOTE Confidence: 0.97928876

00:53:44.820 --> 00:53:45.880 know, just reeducating
NOTE Confidence: 0.9947713

00:53:46.340 --> 00:53:48.260 and teaching and and trying
NOTE Confidence: 0.9947713

00:53:48.260 --> 00:53:49.700 to, you know, help him
NOTE Confidence: 0.9947713

00:53:49.700 --> 00:53:50.760 understand that,
NOTE Confidence: 0.9863037

00:53:51.219 --> 00:53:52.695 you know, being accepting of
NOTE Confidence: 0.9863037

00:53:52.695 --> 00:53:53.975 of that type of organ
NOTE Confidence: 0.9863037

00:53:53.975 --> 00:53:55.495 might, you know, help him
NOTE Confidence: 0.9863037

00:53:55.495 --> 00:53:56.795 get a a heart transplant,
NOTE Confidence: 0.99560547

00:53:57.575 --> 00:53:58.075 sooner.
NOTE Confidence: 0.9902344

00:53:58.695 --> 00:53:59.195 So
NOTE Confidence: 0.99487305

00:53:59.575 --> 00:54:00.855 from what I've seen, the
NOTE Confidence: 0.99487305

00:54:00.855 --> 00:54:02.614 patient is at the forefront

NOTE Confidence: 0.99487305

00:54:02.614 --> 00:54:03.594 of that discussion,

NOTE Confidence: 0.9571533

00:54:04.535 --> 00:54:06.075 in terms of, you know,

NOTE Confidence: 0.9571533

00:54:06.320 --> 00:54:08.320 the the practices of the

NOTE Confidence: 0.9571533

00:54:08.320 --> 00:54:10.160 department. Maybe you wanna talk

NOTE Confidence: 0.9571533

00:54:10.320 --> 00:54:11.619 Yeah. I can just briefly

NOTE Confidence: 0.9571533

00:54:11.840 --> 00:54:12.719 add on to that.

NOTE Confidence: 0.9368164

00:54:13.520 --> 00:54:15.140 So sort of by regulatory

NOTE Confidence: 0.9848904

00:54:16.560 --> 00:54:19.540 guidelines, our consent process does

NOTE Confidence: 0.9848904

00:54:19.760 --> 00:54:21.515 look specifically at whether,

NOTE Confidence: 0.9956543

00:54:21.995 --> 00:54:23.355 a patient will accept a

NOTE Confidence: 0.9956543

00:54:23.355 --> 00:54:25.455 hepatitis c donor or not,

NOTE Confidence: 0.9979248

00:54:25.835 --> 00:54:27.595 because you're giving that person

NOTE Confidence: 0.9979248

00:54:27.595 --> 00:54:28.815 a known communicable

NOTE Confidence: 0.99560547

00:54:29.195 --> 00:54:29.695 disease.

NOTE Confidence: 0.97875977

00:54:30.635 --> 00:54:31.135 However,

NOTE Confidence: 0.99349976

00:54:31.595 --> 00:54:32.875 the reality is that you
NOTE Confidence: 0.99349976

00:54:32.875 --> 00:54:34.075 may be giving them other
NOTE Confidence: 0.99349976

00:54:34.075 --> 00:54:35.910 diseases, other things that come
NOTE Confidence: 0.99349976

00:54:35.910 --> 00:54:36.410 with
NOTE Confidence: 0.9969292

00:54:36.790 --> 00:54:37.750 the the donor that they
NOTE Confidence: 0.9969292

00:54:37.750 --> 00:54:39.270 don't know about. Hepatitis c
NOTE Confidence: 0.9969292

00:54:39.270 --> 00:54:40.650 is just something that's prominent.
NOTE Confidence: 0.96920776

00:54:41.030 --> 00:54:41.989 I think at this stage
NOTE Confidence: 0.96920776

00:54:41.989 --> 00:54:43.030 when it was first being
NOTE Confidence: 0.96920776

00:54:43.030 --> 00:54:44.469 rolled out, it was very
NOTE Confidence: 0.96920776

00:54:44.469 --> 00:54:44.969 controversial.
NOTE Confidence: 0.9895368

00:54:45.989 --> 00:54:47.349 I think it's much less
NOTE Confidence: 0.9895368

00:54:47.349 --> 00:54:49.109 so now where we're basically
NOTE Confidence: 0.9895368

00:54:49.109 --> 00:54:50.329 at the point where
NOTE Confidence: 0.9678385

00:54:50.655 --> 00:54:51.695 I would say not a
NOTE Confidence: 0.9678385

00:54:51.695 --> 00:54:53.614 hundred percent, but virtually that

NOTE Confidence: 0.9678385

00:54:53.614 --> 00:54:55.075 of of our patients agree

NOTE Confidence: 0.9845703

00:54:55.455 --> 00:54:57.395 to accept hepatitis c donors.

NOTE Confidence: 0.955603

00:54:58.015 --> 00:54:59.535 But we do have an

NOTE Confidence: 0.955603

00:54:59.535 --> 00:55:01.695 extensive consent process where there's

NOTE Confidence: 0.955603

00:55:01.695 --> 00:55:03.055 a lot of first shared

NOTE Confidence: 0.955603

00:55:03.055 --> 00:55:04.594 decision making. But I think

NOTE Confidence: 0.955603

00:55:04.839 --> 00:55:05.960 particularly in our region and

NOTE Confidence: 0.955603

00:55:05.960 --> 00:55:07.160 with our wait times, it

NOTE Confidence: 0.955603

00:55:07.319 --> 00:55:08.359 you know, I talk to

NOTE Confidence: 0.955603

00:55:08.359 --> 00:55:10.200 patients about that being something

NOTE Confidence: 0.955603

00:55:10.200 --> 00:55:11.640 that could be the reason

NOTE Confidence: 0.955603

00:55:11.640 --> 00:55:12.760 that they don't get heart.

NOTE Confidence: 0.9675293

00:55:13.319 --> 00:55:14.280 And, you know, you just

NOTE Confidence: 0.9675293

00:55:14.280 --> 00:55:15.640 have to know that. There's

NOTE Confidence: 0.9675293

00:55:15.640 --> 00:55:16.140 also,

NOTE Confidence: 0.96106774

00:55:16.839 --> 00:55:17.960 you know, a a lot
NOTE Confidence: 0.96106774

00:55:17.960 --> 00:55:19.475 of talk now around donation
NOTE Confidence: 0.96106774

00:55:19.475 --> 00:55:21.575 after circulatory death, which is,
NOTE Confidence: 0.9845703

00:55:22.035 --> 00:55:23.155 a little bit different than
NOTE Confidence: 0.9845703

00:55:23.155 --> 00:55:24.915 traditional brain death donors. And
NOTE Confidence: 0.9845703

00:55:24.915 --> 00:55:26.195 we talk with our patients
NOTE Confidence: 0.9845703

00:55:26.195 --> 00:55:29.015 about accepting DCD donors, which,
NOTE Confidence: 0.93688965

00:55:29.635 --> 00:55:30.755 you know, data has shown
NOTE Confidence: 0.93688965

00:55:30.755 --> 00:55:32.355 in Yale participated in in
NOTE Confidence: 0.93688965

00:55:32.355 --> 00:55:33.175 this original,
NOTE Confidence: 0.9700792

00:55:33.890 --> 00:55:35.330 clinical trial that those patient
NOTE Confidence: 0.9700792

00:55:35.330 --> 00:55:36.870 outcomes are similar. But,
NOTE Confidence: 0.98064166

00:55:37.250 --> 00:55:39.090 because the heart, actually has
NOTE Confidence: 0.98064166

00:55:39.090 --> 00:55:40.530 to be arrested before being
NOTE Confidence: 0.98064166

00:55:40.530 --> 00:55:42.210 resuscitated, there's some concern that
NOTE Confidence: 0.98064166

00:55:42.210 --> 00:55:43.910 you could have graft dysfunction

NOTE Confidence: 0.98064166

00:55:44.050 --> 00:55:45.010 and other issues. So our

NOTE Confidence: 0.98064166

00:55:45.010 --> 00:55:47.225 patients are informed of that

NOTE Confidence: 0.98064166

00:55:47.225 --> 00:55:48.344 we will be looking into

NOTE Confidence: 0.98064166

00:55:48.344 --> 00:55:50.025 DCD donors. Currently, though, they

NOTE Confidence: 0.98064166

00:55:50.025 --> 00:55:50.985 have the right to say

NOTE Confidence: 0.98064166

00:55:50.985 --> 00:55:51.805 no to that.

NOTE Confidence: 0.99067384

00:55:52.344 --> 00:55:53.545 But, again, most of our

NOTE Confidence: 0.99067384

00:55:53.545 --> 00:55:55.225 patients accept that because it

NOTE Confidence: 0.99067384

00:55:55.225 --> 00:55:56.105 really is part of the

NOTE Confidence: 0.99067384

00:55:56.105 --> 00:55:57.565 reality of getting an organ.

NOTE Confidence: 0.9910953

00:55:58.760 --> 00:55:59.800 But there's so many other

NOTE Confidence: 0.9910953

00:55:59.800 --> 00:56:01.339 factors that go into selection

NOTE Confidence: 0.9910953

00:56:01.559 --> 00:56:03.319 of a donor that patients

NOTE Confidence: 0.9910953

00:56:03.319 --> 00:56:05.099 don't necessarily know about.

NOTE Confidence: 0.9848458

00:56:06.040 --> 00:56:07.640 And I think as, you

NOTE Confidence: 0.9848458

00:56:07.640 --> 00:56:09.160 know, Colby had alluded to
NOTE Confidence: 0.9848458

00:56:09.160 --> 00:56:10.700 in his his editorial
NOTE Confidence: 0.9576971

00:56:11.079 --> 00:56:12.680 as as of right now,
NOTE Confidence: 0.9576971

00:56:12.680 --> 00:56:14.355 the current allocation system does
NOTE Confidence: 0.9576971

00:56:14.355 --> 00:56:14.855 not
NOTE Confidence: 0.9979718

00:56:15.315 --> 00:56:17.155 give, any weight to a
NOTE Confidence: 0.9979718

00:56:17.155 --> 00:56:18.835 patient preference as to what
NOTE Confidence: 0.9979718

00:56:18.835 --> 00:56:19.815 they would want,
NOTE Confidence: 0.9870566

00:56:20.594 --> 00:56:22.594 for themselves. So and I
NOTE Confidence: 0.9870566

00:56:22.594 --> 00:56:23.955 think Mike went into it,
NOTE Confidence: 0.9870566

00:56:23.955 --> 00:56:25.635 but the current system works
NOTE Confidence: 0.9870566

00:56:25.635 --> 00:56:26.594 is that we have to
NOTE Confidence: 0.9870566

00:56:26.594 --> 00:56:27.094 readjustify
NOTE Confidence: 0.9825195

00:56:27.450 --> 00:56:29.230 every two weeks somebody waits
NOTE Confidence: 0.98309404

00:56:29.530 --> 00:56:31.390 why they cannot get durable
NOTE Confidence: 0.98309404

00:56:31.450 --> 00:56:33.609 mechanical circulatory support, meaning an

NOTE Confidence: 0.98309404

00:56:33.609 --> 00:56:35.609 LVAD. So if someone continues

NOTE Confidence: 0.98309404

00:56:35.609 --> 00:56:36.670 to wait on the transplant

NOTE Confidence: 0.98309404

00:56:36.730 --> 00:56:38.089 list after two weeks, we

NOTE Confidence: 0.98309404

00:56:38.089 --> 00:56:39.630 have to justify and say,

NOTE Confidence: 0.98309404

00:56:39.690 --> 00:56:41.130 well, no. This person is

NOTE Confidence: 0.98309404

00:56:41.130 --> 00:56:42.170 not a candidate for an

NOTE Confidence: 0.98309404

00:56:42.170 --> 00:56:44.385 LVAD, which is inherently unfair

NOTE Confidence: 0.98309404

00:56:44.385 --> 00:56:45.344 because some people are gonna

NOTE Confidence: 0.98309404

00:56:45.344 --> 00:56:47.344 get organs quicker. And, again,

NOTE Confidence: 0.98309404

00:56:47.344 --> 00:56:48.705 some patients may have a

NOTE Confidence: 0.98309404

00:56:48.705 --> 00:56:49.985 very strong preference for one

NOTE Confidence: 0.98309404

00:56:49.985 --> 00:56:50.785 or the other. So the

NOTE Confidence: 0.98309404

00:56:50.785 --> 00:56:52.065 current system doesn't take that

NOTE Confidence: 0.98309404

00:56:52.065 --> 00:56:52.885 into account.

NOTE Confidence: 0.94365233

00:56:55.185 --> 00:56:56.405 Can I ask a question

NOTE Confidence: 0.9980469

00:56:56.739 --> 00:56:58.280 along that line from
NOTE Confidence: 0.88183594

00:56:58.739 --> 00:57:00.120 the video? Variability
NOTE Confidence: 0.9017741

00:57:00.580 --> 00:57:01.800 in practice because,
NOTE Confidence: 0.9354803

00:57:02.420 --> 00:57:03.560 a lot of the centers
NOTE Confidence: 0.9354803

00:57:03.620 --> 00:57:05.300 won't even consent patients for
NOTE Confidence: 0.9354803

00:57:05.300 --> 00:57:06.580 DCD or hep c because
NOTE Confidence: 0.9354803

00:57:06.580 --> 00:57:07.940 they will consider it standard
NOTE Confidence: 0.9354803

00:57:07.940 --> 00:57:08.600 of care.
NOTE Confidence: 0.99477917

00:57:09.140 --> 00:57:10.020 And you can make a
NOTE Confidence: 0.99477917

00:57:10.020 --> 00:57:11.140 case for that because the
NOTE Confidence: 0.99477917

00:57:11.140 --> 00:57:12.200 outcomes are identical.
NOTE Confidence: 0.96280926

00:57:13.915 --> 00:57:14.795 We're one of those centers
NOTE Confidence: 0.96280926

00:57:14.795 --> 00:57:15.994 that is more conservative in
NOTE Confidence: 0.96280926

00:57:15.994 --> 00:57:17.115 that regard. I mean, you
NOTE Confidence: 0.96280926

00:57:17.115 --> 00:57:19.035 know, Nick's old institution, the
NOTE Confidence: 0.96280926

00:57:19.035 --> 00:57:20.315 head of the transplant center

NOTE Confidence: 0.96280926
00:57:20.315 --> 00:57:20.974 at NYU,
NOTE Confidence: 0.9612606
00:57:21.355 --> 00:57:22.474 got a heart transplant with
NOTE Confidence: 0.9612606
00:57:22.474 --> 00:57:23.434 a hep c donor and
NOTE Confidence: 0.9612606
00:57:23.434 --> 00:57:24.474 wrote about it in the
NOTE Confidence: 0.9612606
00:57:24.474 --> 00:57:25.615 in the New York Times.
NOTE Confidence: 0.9612606
00:57:25.809 --> 00:57:26.930 So it's the outcomes that
NOTE Confidence: 0.9612606
00:57:26.930 --> 00:57:28.130 are identical, and there's so
NOTE Confidence: 0.9612606
00:57:28.130 --> 00:57:29.569 many other factors that,
NOTE Confidence: 0.99157965
00:57:30.049 --> 00:57:32.049 like, will lead to different
NOTE Confidence: 0.99157965
00:57:32.049 --> 00:57:33.170 outcomes that you can't really
NOTE Confidence: 0.99157965
00:57:33.170 --> 00:57:34.770 consent everyone for every little
NOTE Confidence: 0.99157965
00:57:34.770 --> 00:57:35.809 thing. So there's a good
NOTE Confidence: 0.99157965
00:57:35.809 --> 00:57:36.770 case to be made that
NOTE Confidence: 0.99157965
00:57:36.770 --> 00:57:38.690 you just sign one consent,
NOTE Confidence: 0.99157965
00:57:38.690 --> 00:57:39.890 and that should cover all
NOTE Confidence: 0.99157965

00:57:39.890 --> 00:57:41.515 these things. The second thing
NOTE Confidence: 0.99157965

00:57:41.515 --> 00:57:42.555 is that there is, like,
NOTE Confidence: 0.99157965

00:57:42.555 --> 00:57:44.335 this perception of, like,
NOTE Confidence: 0.9991455

00:57:44.955 --> 00:57:46.395 less than ideal donor in
NOTE Confidence: 0.9991455

00:57:46.395 --> 00:57:47.375 the United States
NOTE Confidence: 0.98095703

00:57:47.755 --> 00:57:48.255 that
NOTE Confidence: 0.8593614

00:57:48.635 --> 00:57:49.915 works against us because there's
NOTE Confidence: 0.8593614

00:57:49.915 --> 00:57:51.375 no data that, you
NOTE Confidence: 0.99509007

00:57:51.755 --> 00:57:53.835 know, less desirable organs will
NOTE Confidence: 0.99509007

00:57:53.835 --> 00:57:55.055 lead to worse outcomes.
NOTE Confidence: 0.9623326

00:57:56.480 --> 00:57:58.079 In Europe, for example, there's
NOTE Confidence: 0.9623326

00:57:58.079 --> 00:57:58.880 far less,
NOTE Confidence: 0.98164064

00:57:59.279 --> 00:58:00.960 drug overdose and other things
NOTE Confidence: 0.98164064

00:58:00.960 --> 00:58:02.579 that lead to younger organs,
NOTE Confidence: 0.9950358

00:58:02.960 --> 00:58:04.160 and their outcomes are the
NOTE Confidence: 0.9950358

00:58:04.160 --> 00:58:04.660 same.

NOTE Confidence: 0.9468587
00:58:04.960 --> 00:58:05.940 And there's multiple,
NOTE Confidence: 0.9968567
00:58:06.400 --> 00:58:07.839 studies that have shown that,
NOTE Confidence: 0.9968567
00:58:07.839 --> 00:58:08.740 you know, these
NOTE Confidence: 0.951416
00:58:09.095 --> 00:58:10.694 less than ideal organs lead
NOTE Confidence: 0.951416
00:58:10.694 --> 00:58:11.755 to those identical
NOTE Confidence: 0.98999023
00:58:12.055 --> 00:58:12.555 outcomes.
NOTE Confidence: 0.94143677
00:58:13.095 --> 00:58:14.055 So I think there's this
NOTE Confidence: 0.94143677
00:58:14.055 --> 00:58:15.734 perception that we're and we
NOTE Confidence: 0.94143677
00:58:15.734 --> 00:58:17.015 turned down a lot more
NOTE Confidence: 0.94143677
00:58:17.015 --> 00:58:17.515 organs
NOTE Confidence: 1
00:58:18.135 --> 00:58:19.515 in the US than
NOTE Confidence: 0.9921444
00:58:19.895 --> 00:58:21.414 European countries. So I think
NOTE Confidence: 0.9921444
00:58:21.414 --> 00:58:23.130 that there is a you
NOTE Confidence: 0.9921444
00:58:23.130 --> 00:58:24.329 know, the centers that are
NOTE Confidence: 0.9921444
00:58:24.329 --> 00:58:25.069 more aggressive
NOTE Confidence: 0.99902344

00:58:25.450 --> 00:58:25.950 are
NOTE Confidence: 0.9873047

00:58:26.569 --> 00:58:28.170 very aggressive in terms of
NOTE Confidence: 0.9873047

00:58:28.170 --> 00:58:30.329 donor select the donor selection
NOTE Confidence: 0.9873047

00:58:30.329 --> 00:58:31.549 as well. So that's one
NOTE Confidence: 0.9873047

00:58:31.690 --> 00:58:33.069 aspect that can be modified.
NOTE Confidence: 0.95235187

00:58:33.849 --> 00:58:35.049 Yeah. I think that's very
NOTE Confidence: 0.95235187

00:58:35.049 --> 00:58:35.549 informative
NOTE Confidence: 0.58496094

00:58:35.849 --> 00:58:36.349 and
NOTE Confidence: 0.89453125

00:58:36.809 --> 00:58:37.309 that
NOTE Confidence: 0.9169922

00:58:38.454 --> 00:58:39.275 that there's no
NOTE Confidence: 0.8442383

00:58:40.295 --> 00:58:41.355 units or OPTN
NOTE Confidence: 0.9980469

00:58:42.295 --> 00:58:42.795 requirement
NOTE Confidence: 0.9813843

00:58:43.255 --> 00:58:44.535 on the kinds of consent
NOTE Confidence: 0.9813843

00:58:44.535 --> 00:58:45.595 that are mandated
NOTE Confidence: 0.9899379

00:58:45.895 --> 00:58:46.934 for these things, which I
NOTE Confidence: 0.9899379

00:58:46.934 --> 00:58:48.375 would have thought would have

NOTE Confidence: 0.9899379
00:58:48.375 --> 00:58:50.075 been consistent across centers.
NOTE Confidence: 0.9850028
00:58:50.799 --> 00:58:51.920 And, you know, if someone
NOTE Confidence: 0.9850028
00:58:51.920 --> 00:58:52.740 hasn't evaluated
NOTE Confidence: 0.99934894
00:58:53.599 --> 00:58:54.980 that consent process
NOTE Confidence: 0.9639137
00:58:55.519 --> 00:58:57.279 as a variable and in
NOTE Confidence: 0.9639137
00:58:57.279 --> 00:58:59.039 terms of organ allocation, and
NOTE Confidence: 0.9639137
00:58:59.039 --> 00:59:00.160 and I think it would
NOTE Confidence: 0.9639137
00:59:00.160 --> 00:59:01.599 be a wonderful study to
NOTE Confidence: 0.9639137
00:59:01.599 --> 00:59:02.099 do.
NOTE Confidence: 0.91227216
00:59:03.119 --> 00:59:04.559 Any other Bob, maybe the
NOTE Confidence: 0.91227216
00:59:04.559 --> 00:59:05.519 last question, and then
NOTE Confidence: 0.9610443
00:59:06.525 --> 00:59:07.645 Yeah. I think this whole
NOTE Confidence: 0.9610443
00:59:07.645 --> 00:59:08.684 idea of the high risk,
NOTE Confidence: 0.9610443
00:59:09.005 --> 00:59:10.765 donors was very interesting. One
NOTE Confidence: 0.9610443
00:59:10.765 --> 00:59:11.265 is,
NOTE Confidence: 0.9444275

00:59:11.565 --> 00:59:12.684 you know, just the fact
NOTE Confidence: 0.9444275

00:59:12.684 --> 00:59:13.805 that thing that they get,
NOTE Confidence: 0.9444275

00:59:14.204 --> 00:59:15.805 rejected by fifty different people
NOTE Confidence: 0.9444275

00:59:15.805 --> 00:59:17.164 and then get put in
NOTE Confidence: 0.9444275

00:59:17.164 --> 00:59:18.285 and do just as well.
NOTE Confidence: 0.9444275

00:59:18.285 --> 00:59:19.265 It's just amazing.
NOTE Confidence: 0.95914716

00:59:20.049 --> 00:59:20.849 But when you you were
NOTE Confidence: 0.95914716

00:59:20.849 --> 00:59:21.650 able to link it to
NOTE Confidence: 0.95914716

00:59:21.650 --> 00:59:22.390 the centers,
NOTE Confidence: 0.999442

00:59:22.770 --> 00:59:23.809 but is there any way
NOTE Confidence: 0.999442

00:59:23.809 --> 00:59:24.470 to link
NOTE Confidence: 0.97148067

00:59:24.849 --> 00:59:26.770 when something gets rejected or,
NOTE Confidence: 0.97148067

00:59:26.770 --> 00:59:28.049 you know, when a center
NOTE Confidence: 0.97148067

00:59:28.049 --> 00:59:29.730 doesn't accept it to those
NOTE Confidence: 0.97148067

00:59:29.730 --> 00:59:31.170 patients? Because there's gonna be
NOTE Confidence: 0.97148067

00:59:31.170 --> 00:59:33.030 an inherent time lag bias

NOTE Confidence: 0.97148067
00:59:33.089 --> 00:59:34.255 in that, that there are
NOTE Confidence: 0.97148067
00:59:34.255 --> 00:59:35.935 certain patients that don't get.
NOTE Confidence: 0.97148067
00:59:35.935 --> 00:59:37.455 Now maybe a patient that
NOTE Confidence: 0.97148067
00:59:37.455 --> 00:59:38.734 didn't take that, you know,
NOTE Confidence: 0.97148067
00:59:38.734 --> 00:59:39.234 gets
NOTE Confidence: 0.9321123
00:59:39.535 --> 00:59:41.215 transplanted two days later, but
NOTE Confidence: 0.9321123
00:59:41.215 --> 00:59:42.214 they also there's gonna be
NOTE Confidence: 0.9321123
00:59:42.214 --> 00:59:42.975 a certain number of them.
NOTE Confidence: 0.9321123
00:59:42.975 --> 00:59:43.855 They're gonna die in the
NOTE Confidence: 0.9321123
00:59:43.855 --> 00:59:44.915 transplant list
NOTE Confidence: 0.93951416
00:59:45.295 --> 00:59:46.175 waiting for a heart that
NOTE Confidence: 0.93951416
00:59:46.175 --> 00:59:47.234 they've been rejected.
NOTE Confidence: 0.9248352
00:59:48.180 --> 00:59:50.099 Right. Because if you turn
NOTE Confidence: 0.9248352
00:59:50.099 --> 00:59:51.000 down a donor
NOTE Confidence: 0.9675816
00:59:51.380 --> 00:59:52.579 and then that patient has
NOTE Confidence: 0.9675816

00:59:52.579 --> 00:59:53.859 to wait an extra month
NOTE Confidence: 0.9675816

00:59:53.859 --> 00:59:55.000 to get another heart,
NOTE Confidence: 0.99853516

00:59:55.380 --> 00:59:56.200 that month
NOTE Confidence: 0.99454755

00:59:56.500 --> 00:59:58.599 will lead to will translate
NOTE Confidence: 0.99454755

00:59:58.740 --> 00:59:59.240 to
NOTE Confidence: 0.80859375

00:59:59.780 --> 01:00:00.599 real changes
NOTE Confidence: 0.90771484

01:00:00.900 --> 01:00:01.859 in their they may
NOTE Confidence: 0.7302246

01:00:04.335 --> 01:00:04.835 survive,
NOTE Confidence: 0.91567075

01:00:05.135 --> 01:00:06.295 but their quality of life
NOTE Confidence: 0.91567075

01:00:06.295 --> 01:00:07.615 is gonna be much worse
NOTE Confidence: 0.91567075

01:00:07.615 --> 01:00:08.335 than if they got that
NOTE Confidence: 0.91567075

01:00:08.335 --> 01:00:09.935 heart sooner. And that is
NOTE Confidence: 0.91567075

01:00:09.935 --> 01:00:11.855 not captured appropriately. So there
NOTE Confidence: 0.91567075

01:00:11.855 --> 01:00:13.215 is a real downside. Is
NOTE Confidence: 0.91567075

01:00:13.215 --> 01:00:14.095 there any way to link
NOTE Confidence: 0.91567075

01:00:14.095 --> 01:00:15.295 that with the data? Or

NOTE Confidence: 0.91567075
01:00:15.295 --> 01:00:16.735 when you reject this when
NOTE Confidence: 0.91567075
01:00:16.735 --> 01:00:18.250 you reject a heart, is
NOTE Confidence: 0.91567075
01:00:18.250 --> 01:00:19.210 that linked to who you
NOTE Confidence: 0.91567075
01:00:19.210 --> 01:00:20.410 rejected or it's just linked
NOTE Confidence: 0.91567075
01:00:20.410 --> 01:00:21.230 to your center?
NOTE Confidence: 0.924942
01:00:23.130 --> 01:00:24.330 That that goes into, like,
NOTE Confidence: 0.924942
01:00:24.330 --> 01:00:26.010 weightless mortality, but I don't
NOTE Confidence: 0.924942
01:00:26.010 --> 01:00:27.290 know if there's any, like,
NOTE Confidence: 0.924942
01:00:27.290 --> 01:00:27.790 individual
NOTE Confidence: 0.83172584
01:00:28.410 --> 01:00:29.770 you know? But, you know,
NOTE Confidence: 0.83172584
01:00:29.770 --> 01:00:30.650 every day that you're on
NOTE Confidence: 0.83172584
01:00:30.650 --> 01:00:32.170 ECMO or INTELLA, like, you
NOTE Confidence: 0.83172584
01:00:32.170 --> 01:00:33.984 get complications, you get more.
NOTE Confidence: 0.83172584
01:00:33.984 --> 01:00:35.265 It's a culture that needs
NOTE Confidence: 0.83172584
01:00:35.265 --> 01:00:35.765 to,
NOTE Confidence: 0.5215942

01:00:36.625 --> 01:00:38.885 like over to viable overall.
NOTE Confidence: 0.9376492

01:00:39.505 --> 01:00:40.625 Some of our if you
NOTE Confidence: 0.9376492

01:00:40.865 --> 01:00:41.984 if a transplant goes well,
NOTE Confidence: 0.9376492

01:00:41.984 --> 01:00:43.105 you can live, like, twenty,
NOTE Confidence: 0.9376492

01:00:43.105 --> 01:00:44.325 thirty years. And
NOTE Confidence: 0.96567786

01:00:44.704 --> 01:00:45.984 if it doesn't, you know,
NOTE Confidence: 0.96567786

01:00:45.984 --> 01:00:46.724 if it doesn't
NOTE Confidence: 0.80634934

01:00:47.220 --> 01:00:48.740 go as well, then you're
NOTE Confidence: 0.80634934

01:00:48.980 --> 01:00:50.260 you know, great with these
NOTE Confidence: 0.80634934

01:00:50.260 --> 01:00:51.460 and other things. So I
NOTE Confidence: 0.80634934

01:00:51.460 --> 01:00:52.900 think they're real at a
NOTE Confidence: 0.80634934

01:00:52.900 --> 01:00:53.720 patient level,
NOTE Confidence: 0.8774902

01:00:54.820 --> 01:00:56.760 impact of of those delays.
NOTE Confidence: 0.94680786

01:00:58.980 --> 01:01:00.954 Fantastic talk. I know you
NOTE Confidence: 0.94680786

01:01:00.954 --> 01:01:01.755 learned a lot through this
NOTE Confidence: 0.94680786

01:01:01.755 --> 01:01:03.035 process and and through your

NOTE Confidence: 0.94680786

01:01:03.035 --> 01:01:03.535 entire

NOTE Confidence: 0.9595052

01:01:04.075 --> 01:01:06.234 Yale journey, and, we're excited

NOTE Confidence: 0.9595052

01:01:06.234 --> 01:01:07.115 to see how you do

NOTE Confidence: 0.9595052

01:01:07.115 --> 01:01:08.815 into the future. So congratulations.

NOTE Confidence: 0.97180176

01:01:09.195 --> 01:01:09.855 Thank you.