

WEBVTT

NOTE duration:"00:19:48"

NOTE recognizability:0.852

NOTE language:en-us

NOTE Confidence: 0.875216572857143

00:00:16.060 --> 00:00:18.608 Welcome back, this session is being recorded.

NOTE Confidence: 0.8410546582

00:00:21.460 --> 00:00:24.706 Hello, welcome to this session and

NOTE Confidence: 0.8410546582

00:00:24.706 --> 00:00:27.780 it's my pleasure to to introduce

NOTE Confidence: 0.8410546582

00:00:27.780 --> 00:00:30.510 Doctor David Milligan who is a

NOTE Confidence: 0.8410546582

00:00:30.510 --> 00:00:33.288 professor of surgery and also

NOTE Confidence: 0.8410546582

00:00:33.288 --> 00:00:35.660 Division Chair of Transplantation,

NOTE Confidence: 0.8410546582

00:00:35.660 --> 00:00:37.805 Surgery and Immunology.

NOTE Confidence: 0.8410546582

00:00:37.805 --> 00:00:40.665 So unfortunately he could

NOTE Confidence: 0.8410546582

00:00:40.665 --> 00:00:42.836 not make it in person.

NOTE Confidence: 0.8410546582

00:00:42.836 --> 00:00:46.632 So his talk is in his recorded so now

NOTE Confidence: 0.8410546582

00:00:46.632 --> 00:00:49.404 the you know we'll play his regarding.

NOTE Confidence: 0.832916759655172

00:00:52.270 --> 00:00:53.551 I'm David Mulligan.

NOTE Confidence: 0.832916759655172

00:00:53.551 --> 00:00:56.540 I'm the chief of Transplant at Yale

NOTE Confidence: 0.832916759655172

00:00:56.617 --> 00:00:59.905 and I'm here to talk to you about
NOTE Confidence: 0.832916759655172

00:00:59.905 --> 00:01:01.318 transplantation for hepatocellular
NOTE Confidence: 0.832916759655172

00:01:01.318 --> 00:01:05.382 carcinoma and give you the UNOS optn update.
NOTE Confidence: 0.832916759655172

00:01:05.390 --> 00:01:06.710 As I'm in the immediate past,
NOTE Confidence: 0.832916759655172

00:01:06.710 --> 00:01:10.350 president of UNOS and the OPTN.
NOTE Confidence: 0.832916759655172

00:01:10.350 --> 00:01:11.676 So to overview,
NOTE Confidence: 0.832916759655172

00:01:11.676 --> 00:01:13.886 in case you're not familiar,
NOTE Confidence: 0.832916759655172

00:01:13.890 --> 00:01:15.654 the oversight and regulatory
NOTE Confidence: 0.832916759655172

00:01:15.654 --> 00:01:18.300 organization that overseas all of liver
NOTE Confidence: 0.832916759655172

00:01:18.365 --> 00:01:20.830 transplantation for the United States,
NOTE Confidence: 0.832916759655172

00:01:20.830 --> 00:01:23.280 which is the OPTN which
NOTE Confidence: 0.832916759655172

00:01:23.280 --> 00:01:25.730 is run by the company.
NOTE Confidence: 0.832916759655172

00:01:25.730 --> 00:01:28.952 The contractor of this federal contract
NOTE Confidence: 0.832916759655172

00:01:28.952 --> 00:01:33.282 UNOS to try and improve allocation and
NOTE Confidence: 0.832916759655172

00:01:33.282 --> 00:01:36.747 optimize transplantation for all patients
NOTE Confidence: 0.832916759655172

00:01:36.747 --> 00:01:40.533 in the United States and most recently.

NOTE Confidence: 0.832916759655172
00:01:40.533 --> 00:01:44.520 We've made a lot of changes in May of 2019,
NOTE Confidence: 0.832916759655172
00:01:44.520 --> 00:01:47.430 we implemented a national Liver Review
NOTE Confidence: 0.832916759655172
00:01:47.523 --> 00:01:51.259 Board in order to try to improve and
NOTE Confidence: 0.832916759655172
00:01:51.259 --> 00:01:53.904 standardize how we prioritize the
NOTE Confidence: 0.832916759655172
00:01:53.904 --> 00:01:57.138 patients who need exceptions scores to
NOTE Confidence: 0.832916759655172
00:01:57.138 --> 00:02:00.356 try to increase their access to life.
NOTE Confidence: 0.832916759655172
00:02:00.360 --> 00:02:01.755 Saving liver transplants
NOTE Confidence: 0.832916759655172
00:02:01.755 --> 00:02:03.615 when their meld score,
NOTE Confidence: 0.832916759655172
00:02:03.620 --> 00:02:06.480 which predicts their weightless mortality,
NOTE Confidence: 0.832916759655172
00:02:06.480 --> 00:02:08.196 doesn't serve them in an optimal
NOTE Confidence: 0.832916759655172
00:02:08.196 --> 00:02:10.412 way and how to fit these patients
NOTE Confidence: 0.832916759655172
00:02:10.412 --> 00:02:12.087 in in the right sequence.
NOTE Confidence: 0.832916759655172
00:02:12.090 --> 00:02:15.457 When they need a transplant in February,
NOTE Confidence: 0.832916759655172
00:02:15.460 --> 00:02:18.196 about five weeks before the pandemic
NOTE Confidence: 0.832916759655172
00:02:18.196 --> 00:02:21.250 of COVID-19 hit the United States,
NOTE Confidence: 0.832916759655172

00:02:21.250 --> 00:02:24.850 we implemented the acuity circles policy,
NOTE Confidence: 0.832916759655172

00:02:24.850 --> 00:02:27.830 which allowed us to improve
NOTE Confidence: 0.832916759655172

00:02:27.830 --> 00:02:30.810 access to life saving livers.
NOTE Confidence: 0.832916759655172

00:02:30.810 --> 00:02:32.690 Regardless of where a patient
NOTE Confidence: 0.832916759655172

00:02:32.690 --> 00:02:35.055 would live and reduce the disparity
NOTE Confidence: 0.832916759655172

00:02:35.055 --> 00:02:37.105 of those access to livers,
NOTE Confidence: 0.832916759655172

00:02:37.110 --> 00:02:39.686 I'll discuss with you in a few minutes
NOTE Confidence: 0.832916759655172

00:02:39.686 --> 00:02:42.338 how we then subsequently improved.
NOTE Confidence: 0.832916759655172

00:02:42.340 --> 00:02:45.168 And enhanced some of the guidelines and
NOTE Confidence: 0.832916759655172

00:02:45.168 --> 00:02:47.807 policies that were implemented with the
NOTE Confidence: 0.832916759655172

00:02:47.807 --> 00:02:50.971 National Liver Review Board back in October,
NOTE Confidence: 0.832916759655172

00:02:50.980 --> 00:02:52.910 August and September of 2020.
NOTE Confidence: 0.832916759655172

00:02:52.910 --> 00:02:55.961 And again this month this year to try to
NOTE Confidence: 0.832916759655172

00:02:55.961 --> 00:02:59.250 make further improvements and enhancements.
NOTE Confidence: 0.832916759655172

00:02:59.250 --> 00:03:01.400 As we implemented and utilized
NOTE Confidence: 0.832916759655172

00:03:01.400 --> 00:03:03.550 the National Liver Review Board

NOTE Confidence: 0.832916759655172
00:03:03.626 --> 00:03:05.710 and Acuity Circle allocations.
NOTE Confidence: 0.832916759655172
00:03:05.710 --> 00:03:08.965 What's coming around the corner is further
NOTE Confidence: 0.832916759655172
00:03:08.970 --> 00:03:12.428 enhancements to try to look at balancing.
NOTE Confidence: 0.832916759655172
00:03:12.430 --> 00:03:15.734 That's fair for patients who may be
NOTE Confidence: 0.832916759655172
00:03:15.734 --> 00:03:17.677 clustered around multiple transplant
NOTE Confidence: 0.832916759655172
00:03:17.677 --> 00:03:20.813 centers in a certain area with a
NOTE Confidence: 0.832916759655172
00:03:20.813 --> 00:03:23.403 certain acuity circle location and how
NOTE Confidence: 0.832916759655172
00:03:23.403 --> 00:03:26.772 to prioritize them in a more fair way.
NOTE Confidence: 0.832916759655172
00:03:26.772 --> 00:03:29.152 If they come from different
NOTE Confidence: 0.832916759655172
00:03:29.152 --> 00:03:31.631 transplant centers with the same
NOTE Confidence: 0.832916759655172
00:03:31.631 --> 00:03:33.559 underlying problem like HCC,
NOTE Confidence: 0.832916759655172
00:03:33.560 --> 00:03:35.774 but the donors are coming from
NOTE Confidence: 0.832916759655172
00:03:35.774 --> 00:03:38.252 different areas where they may be one
NOTE Confidence: 0.832916759655172
00:03:38.252 --> 00:03:40.429 or two points apart from one another.
NOTE Confidence: 0.832916759655172
00:03:40.430 --> 00:03:42.638 And we'll also talk about some.
NOTE Confidence: 0.832916759655172

00:03:42.640 --> 00:03:44.820 Of the latest enhancements that
NOTE Confidence: 0.832916759655172

00:03:44.820 --> 00:03:46.128 we've been discussing,
NOTE Confidence: 0.832916759655172

00:03:46.130 --> 00:03:49.020 looking at improving the alignment
NOTE Confidence: 0.832916759655172

00:03:49.020 --> 00:03:51.359 with the lyrae's classification of
NOTE Confidence: 0.832916759655172

00:03:51.359 --> 00:03:54.579 what HCC is and what would need a
NOTE Confidence: 0.832916759655172

00:03:54.579 --> 00:03:56.574 transplant and meet transplant criteria
NOTE Confidence: 0.832916759655172

00:03:56.574 --> 00:03:59.406 and what the OPT N classification is
NOTE Confidence: 0.832916759655172

00:03:59.406 --> 00:04:02.108 so that we have one common language.
NOTE Confidence: 0.832916759655172

00:04:02.110 --> 00:04:04.624 And then how we advantage patients
NOTE Confidence: 0.832916759655172

00:04:04.624 --> 00:04:07.450 who have had resections or even
NOTE Confidence: 0.832916759655172

00:04:07.450 --> 00:04:09.590 immunotherapy going forward into
NOTE Confidence: 0.832916759655172

00:04:09.590 --> 00:04:11.730 transplantation and prevent those
NOTE Confidence: 0.832916759655172

00:04:11.807 --> 00:04:14.339 patients from having disadvantages.
NOTE Confidence: 0.832916759655172

00:04:14.340 --> 00:04:15.978 So where are we right now?
NOTE Confidence: 0.832916759655172

00:04:15.980 --> 00:04:19.838 Patients who have HCC and cirrhosis
NOTE Confidence: 0.832916759655172

00:04:19.840 --> 00:04:21.895 and meet the standard criteria

NOTE Confidence: 0.832916759655172
00:04:21.895 --> 00:04:25.039 listed in OP TN policy are provided.
NOTE Confidence: 0.832916759655172
00:04:25.040 --> 00:04:27.542 The points on the MELD score
NOTE Confidence: 0.832916759655172
00:04:27.542 --> 00:04:30.318 system that are three points below
NOTE Confidence: 0.832916759655172
00:04:30.318 --> 00:04:32.878 the median meld at transplant,
NOTE Confidence: 0.832916759655172
00:04:32.880 --> 00:04:36.364 or what we popularly call MA t - 3
NOTE Confidence: 0.832916759655172
00:04:36.364 --> 00:04:39.173 and that is based on currently their
NOTE Confidence: 0.832916759655172
00:04:39.173 --> 00:04:42.528 transplant program and it's implemented.
NOTE Confidence: 0.861353735666667
00:04:42.530 --> 00:04:44.510 Those additional exception points.
NOTE Confidence: 0.861353735666667
00:04:44.510 --> 00:04:48.019 After a six month delay from onset
NOTE Confidence: 0.861353735666667
00:04:48.019 --> 00:04:50.755 of diagnosis and presentation to when
NOTE Confidence: 0.861353735666667
00:04:50.755 --> 00:04:53.866 they get those points and this was
NOTE Confidence: 0.861353735666667
00:04:53.866 --> 00:04:56.362 done after studies based on UCSF,
NOTE Confidence: 0.861353735666667
00:04:56.370 --> 00:04:58.754 where we saw that this was the optimal
NOTE Confidence: 0.861353735666667
00:04:58.754 --> 00:05:00.998 point where we could see the tumor
NOTE Confidence: 0.861353735666667
00:05:00.998 --> 00:05:03.373 biology for these patients and it was
NOTE Confidence: 0.861353735666667

00:05:03.373 --> 00:05:05.557 appropriate to implement them that high
NOTE Confidence: 0.861353735666667

00:05:05.557 --> 00:05:09.090 MELD exception score to get them access
NOTE Confidence: 0.861353735666667

00:05:09.090 --> 00:05:11.890 to transplant those standard criteria
NOTE Confidence: 0.861353735666667

00:05:11.984 --> 00:05:15.596 would include two HCC lesions that have.
NOTE Confidence: 0.861353735666667

00:05:15.600 --> 00:05:19.219 AFP's below 1000 or patients who were
NOTE Confidence: 0.861353735666667

00:05:19.219 --> 00:05:23.408 down staged to T2 from UCSF criteria and
NOTE Confidence: 0.861353735666667

00:05:23.408 --> 00:05:27.080 patients who had an alpha fetal protein
NOTE Confidence: 0.861353735666667

00:05:27.080 --> 00:05:31.698 less than 500 after treatment and a T2 HCC.
NOTE Confidence: 0.861353735666667

00:05:31.698 --> 00:05:34.566 Those are the standards they automatically
NOTE Confidence: 0.861353735666667

00:05:34.566 --> 00:05:36.542 would get implemented with their
NOTE Confidence: 0.861353735666667

00:05:36.542 --> 00:05:39.075 MA t - 3 anybody that's outside of
NOTE Confidence: 0.861353735666667

00:05:39.075 --> 00:05:41.322 those criteria would be referred to
NOTE Confidence: 0.861353735666667

00:05:41.322 --> 00:05:43.097 the National Liver Review Board,
NOTE Confidence: 0.861353735666667

00:05:43.100 --> 00:05:45.440 and again this is a panel.
NOTE Confidence: 0.861353735666667

00:05:45.440 --> 00:05:48.075 Of providers that are representatives
NOTE Confidence: 0.861353735666667

00:05:48.075 --> 00:05:51.734 from all the programs across the country

NOTE Confidence: 0.861353735666667
00:05:51.734 --> 00:05:55.024 not necessarily just in our local region,
NOTE Confidence: 0.861353735666667
00:05:55.030 --> 00:05:57.816 but the idea is there wouldn't be
NOTE Confidence: 0.861353735666667
00:05:57.816 --> 00:05:59.470 any local regional bias,
NOTE Confidence: 0.861353735666667
00:05:59.470 --> 00:06:02.734 and it would be the same standard guidelines
NOTE Confidence: 0.861353735666667
00:06:02.734 --> 00:06:05.669 that come from the guidance document.
NOTE Confidence: 0.861353735666667
00:06:05.670 --> 00:06:07.866 That was the that was actually
NOTE Confidence: 0.861353735666667
00:06:07.866 --> 00:06:10.690 developed by the OPTN and the Liver
NOTE Confidence: 0.861353735666667
00:06:10.690 --> 00:06:13.270 Intestinal Committee as well as the
NOTE Confidence: 0.861353735666667
00:06:13.352 --> 00:06:16.137 discussion from the NLRB reviewers.
NOTE Confidence: 0.861353735666667
00:06:16.140 --> 00:06:19.695 Now the NLRB was implemented in May of 2019,
NOTE Confidence: 0.861353735666667
00:06:19.700 --> 00:06:21.062 as I mentioned,
NOTE Confidence: 0.861353735666667
00:06:21.062 --> 00:06:22.878 and it replaced it.
NOTE Confidence: 0.861353735666667
00:06:22.880 --> 00:06:25.946 Replaced all the local regional review
NOTE Confidence: 0.861353735666667
00:06:25.946 --> 00:06:29.435 boards with one national system so that
NOTE Confidence: 0.861353735666667
00:06:29.435 --> 00:06:32.159 all exception cases could be reviewed
NOTE Confidence: 0.861353735666667

00:06:32.159 --> 00:06:35.373 and reviewed in a standardized way by
NOTE Confidence: 0.861353735666667

00:06:35.373 --> 00:06:38.364 members of the entire national consortium.
NOTE Confidence: 0.861353735666667

00:06:38.364 --> 00:06:41.976 This also allowed us to replace
NOTE Confidence: 0.861353735666667

00:06:41.976 --> 00:06:45.597 what we call the MELD elevator,
NOTE Confidence: 0.861353735666667

00:06:45.600 --> 00:06:46.456 which would.
NOTE Confidence: 0.861353735666667

00:06:46.456 --> 00:06:49.452 Increase a patient's exception scores by 10%.
NOTE Confidence: 0.861353735666667

00:06:49.460 --> 00:06:51.735 Mortality equivalents every three months
NOTE Confidence: 0.861353735666667

00:06:51.735 --> 00:06:54.822 that they did not receive a transplant
NOTE Confidence: 0.861353735666667

00:06:54.822 --> 00:06:57.398 so that a median meld at transplant
NOTE Confidence: 0.861353735666667

00:06:57.400 --> 00:07:00.742 where that patient was listed would be
NOTE Confidence: 0.861353735666667

00:07:00.742 --> 00:07:03.759 used as a criteria around which their
NOTE Confidence: 0.861353735666667

00:07:03.759 --> 00:07:06.638 access to transplant could be based.
NOTE Confidence: 0.861353735666667

00:07:06.640 --> 00:07:07.480 The meld?
NOTE Confidence: 0.861353735666667

00:07:07.480 --> 00:07:08.740 The meld elevator,
NOTE Confidence: 0.861353735666667

00:07:08.740 --> 00:07:09.137 therefore,
NOTE Confidence: 0.861353735666667

00:07:09.137 --> 00:07:11.916 would not continue to accrue where a

NOTE Confidence: 0.861353735666667
00:07:11.916 --> 00:07:14.535 patient who literally had a very low
NOTE Confidence: 0.861353735666667
00:07:14.535 --> 00:07:17.369 mortality on the list would then supersede.
NOTE Confidence: 0.861353735666667
00:07:17.370 --> 00:07:19.802 Patients who were going to die on the
NOTE Confidence: 0.861353735666667
00:07:19.802 --> 00:07:22.300 wait list with calculated MELD scores.
NOTE Confidence: 0.861353735666667
00:07:22.300 --> 00:07:26.392 The median melded transplant was calculated
NOTE Confidence: 0.861353735666667
00:07:26.392 --> 00:07:30.632 every six months from 365 day cohort,
NOTE Confidence: 0.861353735666667
00:07:30.632 --> 00:07:33.152 with most exception points on
NOTE Confidence: 0.861353735666667
00:07:33.152 --> 00:07:35.678 scores reupped every six months,
NOTE Confidence: 0.861353735666667
00:07:35.680 --> 00:07:38.425 and the goal of the NLRB is to reduce
NOTE Confidence: 0.861353735666667
00:07:38.425 --> 00:07:41.340 the relative priority of HC candidates
NOTE Confidence: 0.861353735666667
00:07:41.340 --> 00:07:44.441 and allocation that we're getting over
NOTE Confidence: 0.861353735666667
00:07:44.441 --> 00:07:47.375 prioritized by this meld elevator effect.
NOTE Confidence: 0.861353735666667
00:07:47.380 --> 00:07:49.535 And therefore HCC was getting
NOTE Confidence: 0.861353735666667
00:07:49.535 --> 00:07:51.226 too much priority acuity.
NOTE Confidence: 0.861353735666667
00:07:51.226 --> 00:07:53.206 Circle allocations came into place
NOTE Confidence: 0.861353735666667

00:07:53.206 --> 00:07:55.747 in February of 2020 and as I said,
NOTE Confidence: 0.861353735666667

00:07:55.750 --> 00:07:59.092 about five weeks before the onset
NOTE Confidence: 0.861353735666667

00:07:59.092 --> 00:08:00.822 of the COVID-19 pandemic,
NOTE Confidence: 0.861353735666667

00:08:00.822 --> 00:08:02.658 and this is important when you
NOTE Confidence: 0.861353735666667

00:08:02.658 --> 00:08:04.388 start to look at the results.
NOTE Confidence: 0.861353735666667

00:08:04.390 --> 00:08:07.252 This removed as designated by the
NOTE Confidence: 0.861353735666667

00:08:07.252 --> 00:08:09.597 Secretary of the Department of
NOTE Confidence: 0.861353735666667

00:08:09.597 --> 00:08:12.070 Health that we could no longer
NOTE Confidence: 0.861353735666667

00:08:12.070 --> 00:08:14.790 use donation service areas or our
NOTE Confidence: 0.861353735666667

00:08:14.790 --> 00:08:17.390 local areas for organ distribution.
NOTE Confidence: 0.861353735666667

00:08:17.390 --> 00:08:18.252 And allocation,
NOTE Confidence: 0.861353735666667

00:08:18.252 --> 00:08:20.407 and to more fairly allocate
NOTE Confidence: 0.861353735666667

00:08:20.407 --> 00:08:22.200 based on patients needs,
NOTE Confidence: 0.861353735666667

00:08:22.200 --> 00:08:23.855 regardless of where a patient
NOTE Confidence: 0.861353735666667

00:08:23.855 --> 00:08:25.510 would reside so that we
NOTE Confidence: 0.898699007666667

00:08:25.580 --> 00:08:27.300 could reduce the massive disparities

NOTE Confidence: 0.898699007666667
00:08:27.300 --> 00:08:30.385 that we saw in the Northeast and on the
NOTE Confidence: 0.898699007666667
00:08:30.385 --> 00:08:33.116 West Coast to be more equalized with the
NOTE Confidence: 0.898699007666667
00:08:33.116 --> 00:08:35.832 increase in in access to organs that
NOTE Confidence: 0.898699007666667
00:08:35.832 --> 00:08:39.218 we saw in the Southeast and central US.
NOTE Confidence: 0.898699007666667
00:08:39.220 --> 00:08:42.146 The areas that allocation would be made
NOTE Confidence: 0.898699007666667
00:08:42.146 --> 00:08:45.307 around would be the donor organ hospitals
NOTE Confidence: 0.898699007666667
00:08:45.307 --> 00:08:48.043 that were in concentric circles of
NOTE Confidence: 0.898699007666667
00:08:48.127 --> 00:08:50.670 100 and 52150 and 500 nautical miles.
NOTE Confidence: 0.898699007666667
00:08:50.670 --> 00:08:52.980 Around those hospitals and they
NOTE Confidence: 0.898699007666667
00:08:52.980 --> 00:08:56.203 would go and series of MELD scores
NOTE Confidence: 0.898699007666667
00:08:56.203 --> 00:08:59.491 and the impact on HCC by using these
NOTE Confidence: 0.898699007666667
00:08:59.578 --> 00:09:02.994 acuity circles was to try to optimize
NOTE Confidence: 0.898699007666667
00:09:02.994 --> 00:09:06.496 access for patients where they had a
NOTE Confidence: 0.898699007666667
00:09:06.496 --> 00:09:09.041 standard consistent level of access
NOTE Confidence: 0.898699007666667
00:09:09.041 --> 00:09:12.439 across the country and it changed the
NOTE Confidence: 0.898699007666667

00:09:12.439 --> 00:09:15.431 median meld of training at transplant
NOTE Confidence: 0.898699007666667

00:09:15.431 --> 00:09:19.057 calculation to try to be more equalized.
NOTE Confidence: 0.898699007666667

00:09:19.060 --> 00:09:20.690 So what are the enhancements?
NOTE Confidence: 0.898699007666667

00:09:20.690 --> 00:09:23.504 That we've seen to the NLRB since
NOTE Confidence: 0.898699007666667

00:09:23.504 --> 00:09:24.308 it's inception.
NOTE Confidence: 0.898699007666667

00:09:24.310 --> 00:09:26.434 Well, the first two enhancements that
NOTE Confidence: 0.898699007666667

00:09:26.434 --> 00:09:29.036 came out in August and September were
NOTE Confidence: 0.898699007666667

00:09:29.036 --> 00:09:31.274 to increase the ability for patients
NOTE Confidence: 0.898699007666667

00:09:31.274 --> 00:09:33.799 who needed a standard extension of
NOTE Confidence: 0.898699007666667

00:09:33.799 --> 00:09:35.884 their exception to be automatically
NOTE Confidence: 0.898699007666667

00:09:35.890 --> 00:09:38.128 approved if they met standard criteria.
NOTE Confidence: 0.898699007666667

00:09:38.130 --> 00:09:38.719 Secondly,
NOTE Confidence: 0.898699007666667

00:09:38.719 --> 00:09:42.253 that patients who had history of
NOTE Confidence: 0.898699007666667

00:09:42.253 --> 00:09:46.130 HCC that was more than two years
NOTE Confidence: 0.898699007666667

00:09:46.130 --> 00:09:48.693 prior to whatever treatment they
NOTE Confidence: 0.898699007666667

00:09:48.693 --> 00:09:51.298 received and the HCC recurred.

NOTE Confidence: 0.898699007666667
00:09:51.300 --> 00:09:53.748 Would be able to.
NOTE Confidence: 0.898699007666667
00:09:53.748 --> 00:09:56.808 Access their exception scores and
NOTE Confidence: 0.898699007666667
00:09:56.808 --> 00:10:01.035 they would therefore reapply for mild
NOTE Confidence: 0.898699007666667
00:10:01.035 --> 00:10:05.629 exceptions and could bypass the six week.
NOTE Confidence: 0.898699007666667
00:10:05.630 --> 00:10:07.226 The six month extension.
NOTE Confidence: 0.898699007666667
00:10:07.226 --> 00:10:09.620 The next three enhancements that have
NOTE Confidence: 0.898699007666667
00:10:09.688 --> 00:10:12.208 come more recently have to do with
NOTE Confidence: 0.898699007666667
00:10:12.208 --> 00:10:14.146 allowing patients who have received
NOTE Confidence: 0.898699007666667
00:10:14.146 --> 00:10:16.504 immunotherapy or who have had undergone
NOTE Confidence: 0.898699007666667
00:10:16.504 --> 00:10:19.430 a liver resection along with ablation
NOTE Confidence: 0.898699007666667
00:10:19.430 --> 00:10:23.790 therapies to be able to be instituted.
NOTE Confidence: 0.898699007666667
00:10:23.790 --> 00:10:26.639 There are mild exception score again without
NOTE Confidence: 0.898699007666667
00:10:26.639 --> 00:10:29.334 having to wait that six month waiting
NOTE Confidence: 0.898699007666667
00:10:29.334 --> 00:10:31.980 period and place them at the exception
NOTE Confidence: 0.898699007666667
00:10:31.980 --> 00:10:34.758 score when that recurrence was noted,
NOTE Confidence: 0.898699007666667

00:10:34.760 --> 00:10:37.600 as well as the chest,
NOTE Confidence: 0.898699007666667

00:10:37.600 --> 00:10:40.096 CT would only be required at
NOTE Confidence: 0.898699007666667

00:10:40.096 --> 00:10:42.720 the time of initial exception,
NOTE Confidence: 0.898699007666667

00:10:42.720 --> 00:10:44.574 but wouldn't be required every time
NOTE Confidence: 0.898699007666667

00:10:44.574 --> 00:10:46.460 an exception needed to be removed.
NOTE Confidence: 0.898699007666667

00:10:46.460 --> 00:10:48.218 So those are the most recent
NOTE Confidence: 0.898699007666667

00:10:48.218 --> 00:10:49.097 enhancements we've had.
NOTE Confidence: 0.898699007666667

00:10:49.100 --> 00:10:51.452 So after we've seen the implementation
NOTE Confidence: 0.898699007666667

00:10:51.452 --> 00:10:54.479 of the NLRB and these enhancements.
NOTE Confidence: 0.898699007666667

00:10:54.480 --> 00:10:56.970 We've seen a significant increase in
NOTE Confidence: 0.898699007666667

00:10:56.970 --> 00:10:59.400 the number of automatic approvals,
NOTE Confidence: 0.898699007666667

00:10:59.400 --> 00:11:01.296 which is decreased a lot of the workload
NOTE Confidence: 0.898699007666667

00:11:01.296 --> 00:11:03.237 of the National Liver Review Board.
NOTE Confidence: 0.898699007666667

00:11:03.240 --> 00:11:06.060 And as you can see on this graph over to
NOTE Confidence: 0.898699007666667

00:11:06.140 --> 00:11:09.038 the right hand side after implementation,
NOTE Confidence: 0.898699007666667

00:11:09.040 --> 00:11:11.850 people who are getting extensions

NOTE Confidence: 0.898699007666667
00:11:11.850 --> 00:11:14.098 after their first application,
NOTE Confidence: 0.898699007666667
00:11:14.100 --> 00:11:16.410 90% of them are getting automatic
NOTE Confidence: 0.898699007666667
00:11:16.410 --> 00:11:18.656 extensions because they meet the criteria
NOTE Confidence: 0.898699007666667
00:11:18.656 --> 00:11:21.645 and only about 10% need to go back to
NOTE Confidence: 0.898699007666667
00:11:21.645 --> 00:11:24.688 the NLRB for further review when the initial.
NOTE Confidence: 0.898699007666667
00:11:24.690 --> 00:11:27.340 Exception request come through about
NOTE Confidence: 0.898699007666667
00:11:27.340 --> 00:11:31.169 a third or automatic and about 2/3
NOTE Confidence: 0.898699007666667
00:11:31.169 --> 00:11:33.899 go through additional NLRB review.
NOTE Confidence: 0.898699007666667
00:11:33.900 --> 00:11:34.482 Now,
NOTE Confidence: 0.898699007666667
00:11:34.482 --> 00:11:37.974 what about this MATC around the
NOTE Confidence: 0.898699007666667
00:11:37.974 --> 00:11:39.138 donor hospital?
NOTE Confidence: 0.898699007666667
00:11:39.140 --> 00:11:42.626 It began as a problem was noted
NOTE Confidence: 0.898699007666667
00:11:42.626 --> 00:11:45.020 that in transplant centers,
NOTE Confidence: 0.898699007666667
00:11:45.020 --> 00:11:48.037 where a patient's MAT may be designated,
NOTE Confidence: 0.898699007666667
00:11:48.040 --> 00:11:50.228 for example, at 27,
NOTE Confidence: 0.898699007666667

00:11:50.228 --> 00:11:54.320 their MA T - 3 for an HCC patient,
NOTE Confidence: 0.898699007666667

00:11:54.320 --> 00:11:57.064 they might be in close proximity to
NOTE Confidence: 0.898699007666667

00:11:57.064 --> 00:11:59.020 another transplant center in an area,
NOTE Confidence: 0.898699007666667

00:11:59.020 --> 00:12:01.220 say for example New York,
NOTE Confidence: 0.898699007666667

00:12:01.220 --> 00:12:03.230 which is close to Philadelphia
NOTE Confidence: 0.898699007666667

00:12:03.230 --> 00:12:05.162 within a 250 nautical miles.
NOTE Confidence: 0.898699007666667

00:12:05.162 --> 00:12:07.780 Radius of a donor hospital and you
NOTE Confidence: 0.846528809666667

00:12:07.852 --> 00:12:10.508 can have the same patient in New York
NOTE Confidence: 0.846528809666667

00:12:10.508 --> 00:12:12.867 that might have an M at minus three
NOTE Confidence: 0.846528809666667

00:12:12.867 --> 00:12:15.382 of 28 and it's the same patient with
NOTE Confidence: 0.846528809666667

00:12:15.382 --> 00:12:17.172 the same diagnosis in Philadelphia,
NOTE Confidence: 0.846528809666667

00:12:17.180 --> 00:12:21.486 which would have an MA t - 3 of 27.
NOTE Confidence: 0.846528809666667

00:12:21.486 --> 00:12:23.318 Same patient, same diagnosis
NOTE Confidence: 0.846528809666667

00:12:23.318 --> 00:12:25.288 with two different MELD scores,
NOTE Confidence: 0.846528809666667

00:12:25.290 --> 00:12:27.594 and therefore it wasn't felt to
NOTE Confidence: 0.846528809666667

00:12:27.594 --> 00:12:30.275 be fair for those patients to

NOTE Confidence: 0.846528809666667
00:12:30.275 --> 00:12:32.570 be having the same diagnosis,
NOTE Confidence: 0.846528809666667
00:12:32.570 --> 00:12:36.380 but they were decreased in priority.
NOTE Confidence: 0.846528809666667
00:12:36.380 --> 00:12:38.599 To all the same patients at a
NOTE Confidence: 0.846528809666667
00:12:38.599 --> 00:12:39.550 different transplant center
NOTE Confidence: 0.846528809666667
00:12:39.612 --> 00:12:41.340 because they lived in New York,
NOTE Confidence: 0.846528809666667
00:12:41.340 --> 00:12:44.525 so the decision was made to calculate
NOTE Confidence: 0.846528809666667
00:12:44.525 --> 00:12:47.445 the MGMAT around each donor hospital
NOTE Confidence: 0.846528809666667
00:12:47.445 --> 00:12:50.379 for the groups of patients within
NOTE Confidence: 0.846528809666667
00:12:50.379 --> 00:12:53.408 that 250 nautical mile circle and use
NOTE Confidence: 0.846528809666667
00:12:53.408 --> 00:12:56.380 that as the criteria to reimplement.
NOTE Confidence: 0.846528809666667
00:12:56.380 --> 00:12:59.200 This is very extensive computer programming,
NOTE Confidence: 0.846528809666667
00:12:59.200 --> 00:13:00.652 as you can imagine,
NOTE Confidence: 0.846528809666667
00:13:00.652 --> 00:13:03.727 and in order to achieve this it's taken
NOTE Confidence: 0.846528809666667
00:13:03.727 --> 00:13:06.991 about a year since the problem was brought.
NOTE Confidence: 0.846528809666667
00:13:07.000 --> 00:13:10.102 Forward in the solution generated and
NOTE Confidence: 0.846528809666667

00:13:10.102 --> 00:13:12.170 therefore we'll see implementation
NOTE Confidence: 0.846528809666667

00:13:12.249 --> 00:13:13.398 later this year.
NOTE Confidence: 0.846528809666667

00:13:13.400 --> 00:13:16.109 Now where are we with the 18
NOTE Confidence: 0.846528809666667

00:13:16.109 --> 00:13:18.346 month monitoring reports for our
NOTE Confidence: 0.846528809666667

00:13:18.346 --> 00:13:19.837 acuity circle allocations?
NOTE Confidence: 0.846528809666667

00:13:19.840 --> 00:13:20.211 Well,
NOTE Confidence: 0.846528809666667

00:13:20.211 --> 00:13:23.179 if you look at 18 months prior to
NOTE Confidence: 0.846528809666667

00:13:23.179 --> 00:13:25.925 the development of the policy on
NOTE Confidence: 0.846528809666667

00:13:25.925 --> 00:13:29.168 February 3rd of 2020 and the post
NOTE Confidence: 0.846528809666667

00:13:29.168 --> 00:13:31.352 policy following that 18 months
NOTE Confidence: 0.846528809666667

00:13:31.352 --> 00:13:33.571 out to August of 2021,
NOTE Confidence: 0.846528809666667

00:13:33.571 --> 00:13:36.798 analysis based out on data that is
NOTE Confidence: 0.846528809666667

00:13:36.798 --> 00:13:39.940 recovered as of November 19th to 2021
NOTE Confidence: 0.846528809666667

00:13:39.940 --> 00:13:43.780 shows that as a result of the Acuity.
NOTE Confidence: 0.846528809666667

00:13:43.780 --> 00:13:47.005 Circle allocation and despite the
NOTE Confidence: 0.846528809666667

00:13:47.005 --> 00:13:50.230 problem with a worldwide pandemic,

NOTE Confidence: 0.846528809666667
00:13:50.230 --> 00:13:53.506 we are seeing a significant increase
NOTE Confidence: 0.846528809666667
00:13:53.506 --> 00:13:57.202 in wait list additions as well as wait
NOTE Confidence: 0.846528809666667
00:13:57.202 --> 00:14:00.646 list removals for death or two sick,
NOTE Confidence: 0.846528809666667
00:14:00.650 --> 00:14:03.422 significantly dropping increased number
NOTE Confidence: 0.846528809666667
00:14:03.422 --> 00:14:06.887 of deceased donor liver transplants,
NOTE Confidence: 0.846528809666667
00:14:06.890 --> 00:14:09.550 liver and other organ transplants like liver,
NOTE Confidence: 0.846528809666667
00:14:09.550 --> 00:14:10.354 kidney, liver,
NOTE Confidence: 0.846528809666667
00:14:10.354 --> 00:14:12.364 heart and a significant increase
NOTE Confidence: 0.846528809666667
00:14:12.364 --> 00:14:14.689 in the number of liver donors.
NOTE Confidence: 0.846528809666667
00:14:14.690 --> 00:14:17.360 Are covered, which is profound.
NOTE Confidence: 0.846528809666667
00:14:17.360 --> 00:14:20.139 We've seen when you look at the
NOTE Confidence: 0.846528809666667
00:14:20.140 --> 00:14:22.155 cumulative in the incidents of
NOTE Confidence: 0.846528809666667
00:14:22.155 --> 00:14:24.900 transplant for liver wait list additions,
NOTE Confidence: 0.846528809666667
00:14:24.900 --> 00:14:27.840 Meld, Peld score by status or era,
NOTE Confidence: 0.846528809666667
00:14:27.840 --> 00:14:32.336 that in every case status 1A and 1B.
NOTE Confidence: 0.846528809666667

00:14:32.340 --> 00:14:36.260 The high MELD patients by three MELD
NOTE Confidence: 0.846528809666667

00:14:36.260 --> 00:14:40.080 points on declination that there is
NOTE Confidence: 0.846528809666667

00:14:40.080 --> 00:14:44.020 a significant increase in the post.
NOTE Confidence: 0.846528809666667

00:14:44.020 --> 00:14:45.961 Implementation of equity.
NOTE Confidence: 0.846528809666667

00:14:45.961 --> 00:14:49.843 Circles and access of patients for
NOTE Confidence: 0.846528809666667

00:14:49.843 --> 00:14:53.510 transplant all the way down to melds of 15.
NOTE Confidence: 0.846528809666667

00:14:53.510 --> 00:14:55.508 When you look at the removal
NOTE Confidence: 0.846528809666667

00:14:55.508 --> 00:14:57.290 for death or too sick,
NOTE Confidence: 0.846528809666667

00:14:57.290 --> 00:14:59.774 the patients who have been in
NOTE Confidence: 0.846528809666667

00:14:59.774 --> 00:15:02.189 the post acuity circle allocation
NOTE Confidence: 0.846528809666667

00:15:02.189 --> 00:15:04.869 era are significantly advanced.
NOTE Confidence: 0.846528809666667

00:15:04.870 --> 00:15:06.506 At every MELD score,
NOTE Confidence: 0.846528809666667

00:15:06.506 --> 00:15:08.551 especially in the higher MELD
NOTE Confidence: 0.846528809666667

00:15:08.551 --> 00:15:10.469 scores from MELD 29 and up.
NOTE Confidence: 0.846528809666667

00:15:10.470 --> 00:15:13.608 When you look at the ceased
NOTE Confidence: 0.846528809666667

00:15:13.608 --> 00:15:15.700 donor liver alone transplants.

NOTE Confidence: 0.846528809666667
00:15:15.700 --> 00:15:17.780 My meld score and status.
NOTE Confidence: 0.846528809666667
00:15:17.780 --> 00:15:21.595 You can see that the utilization of
NOTE Confidence: 0.846528809666667
00:15:21.595 --> 00:15:24.346 donation after circulatory death is
NOTE Confidence: 0.846528809666667
00:15:24.346 --> 00:15:27.406 significantly greater in patients in the
NOTE Confidence: 0.846528809666667
00:15:27.406 --> 00:15:31.244 post era of the melds between 15 and 28,
NOTE Confidence: 0.846528809666667
00:15:31.250 --> 00:15:33.357 so that we've been able to optimize
NOTE Confidence: 0.846528809666667
00:15:33.357 --> 00:15:35.348 the utilization of these DCD donors
NOTE Confidence: 0.846528809666667
00:15:35.348 --> 00:15:37.394 and increase the total number of
NOTE Confidence: 0.846528809666667
00:15:37.394 --> 00:15:39.296 transplants we've been able to perform.
NOTE Confidence: 0.846528809666667
00:15:39.300 --> 00:15:39.904 And similarly,
NOTE Confidence: 0.846528809666667
00:15:39.904 --> 00:15:41.716 when you look at this graphic,
NOTE Confidence: 0.846528809666667
00:15:41.720 --> 00:15:44.336 you can see that one of the complaints
NOTE Confidence: 0.846528809666667
00:15:44.336 --> 00:15:46.020 about having to ship livers.
NOTE Confidence: 0.846528809666667
00:15:46.020 --> 00:15:48.308 Greater distances did flatten
NOTE Confidence: 0.846528809666667
00:15:48.308 --> 00:15:51.168 out to some degree with
NOTE Confidence: 0.81864739

00:15:51.170 --> 00:15:54.802 with increasing distances across
NOTE Confidence: 0.81864739

00:15:54.802 --> 00:15:57.594 the larger nautical mile distance.
NOTE Confidence: 0.81864739

00:15:57.594 --> 00:16:01.468 But as you can see, the amount of
NOTE Confidence: 0.81864739

00:16:01.468 --> 00:16:03.998 increase has actually been relatively
NOTE Confidence: 0.81864739

00:16:03.998 --> 00:16:06.929 small compared to what the concern was.
NOTE Confidence: 0.81864739

00:16:06.930 --> 00:16:09.986 And if you see the coldest chemia time,
NOTE Confidence: 0.81864739

00:16:09.990 --> 00:16:12.000 even with a somewhat increased
NOTE Confidence: 0.81864739

00:16:12.000 --> 00:16:13.206 distance and shipping,
NOTE Confidence: 0.81864739

00:16:13.210 --> 00:16:15.688 the coldest chemia time was able to
NOTE Confidence: 0.81864739

00:16:15.688 --> 00:16:18.597 stay less than six hours on the average.
NOTE Confidence: 0.81864739

00:16:18.600 --> 00:16:21.784 Finally, when we looked at the rate of
NOTE Confidence: 0.81864739

00:16:21.784 --> 00:16:24.286 the discards or the livers recovered
NOTE Confidence: 0.81864739

00:16:24.286 --> 00:16:27.220 and not used in almost every case
NOTE Confidence: 0.81864739

00:16:27.220 --> 00:16:30.153 post acuity circle except in region 5,
NOTE Confidence: 0.81864739

00:16:30.160 --> 00:16:34.320 region 8 and region nine,
NOTE Confidence: 0.81864739

00:16:34.320 --> 00:16:37.743 we can see that post acuity circle

NOTE Confidence: 0.81864739

00:16:37.743 --> 00:16:39.712 allocation the discard rates

NOTE Confidence: 0.81864739

00:16:39.712 --> 00:16:42.326 were lower and the new era.

NOTE Confidence: 0.81864739

00:16:42.326 --> 00:16:45.224 Now one year post transplant patient

NOTE Confidence: 0.81864739

00:16:45.224 --> 00:16:47.781 survivals for deceased donor liver

NOTE Confidence: 0.81864739

00:16:47.781 --> 00:16:50.781 alone by era was significantly better

NOTE Confidence: 0.81864739

00:16:50.781 --> 00:16:53.397 in patients that were transplanted

NOTE Confidence: 0.81864739

00:16:53.397 --> 00:16:56.445 in the post acuity circle era,

NOTE Confidence: 0.81864739

00:16:56.450 --> 00:16:58.862 which is exactly what we were hoping to do,

NOTE Confidence: 0.81864739

00:16:58.870 --> 00:16:59.990 reduce disparity,

NOTE Confidence: 0.81864739

00:16:59.990 --> 00:17:02.230 increase access to transplants,

NOTE Confidence: 0.81864739

00:17:02.230 --> 00:17:03.134 increase transplants,

NOTE Confidence: 0.81864739

00:17:03.134 --> 00:17:05.394 and increase and decrease death

NOTE Confidence: 0.81864739

00:17:05.394 --> 00:17:07.510 rates on the wait list.

NOTE Confidence: 0.81864739

00:17:07.510 --> 00:17:10.446 And this is what we saw so specifically

NOTE Confidence: 0.81864739

00:17:10.446 --> 00:17:13.847 for HCC patients with exceptions for HCC.

NOTE Confidence: 0.81864739

00:17:13.850 --> 00:17:15.740 Did not really see a change in
NOTE Confidence: 0.81864739

00:17:15.740 --> 00:17:17.996 deaths on the wait list and they did
NOTE Confidence: 0.81864739

00:17:17.996 --> 00:17:20.093 not really also see an increase in
NOTE Confidence: 0.81864739

00:17:20.093 --> 00:17:22.368 transplants that much so it didn't have
NOTE Confidence: 0.81864739

00:17:22.368 --> 00:17:25.316 a major effect on the HCC patients.
NOTE Confidence: 0.81864739

00:17:25.320 --> 00:17:28.918 We did see a slightly lower incidence
NOTE Confidence: 0.81864739

00:17:28.918 --> 00:17:31.374 of patients transplanted for HCC
NOTE Confidence: 0.81864739

00:17:31.374 --> 00:17:33.858 which also was probably the right
NOTE Confidence: 0.81864739

00:17:33.858 --> 00:17:36.864 thing to do and we did see that
NOTE Confidence: 0.81864739

00:17:36.864 --> 00:17:39.553 the mean MELD score or PELD score
NOTE Confidence: 0.81864739

00:17:39.553 --> 00:17:41.708 for patients with HCC decreased
NOTE Confidence: 0.81864739

00:17:41.708 --> 00:17:44.884 from a meld of 28 to a meld of 26.
NOTE Confidence: 0.81864739

00:17:44.890 --> 00:17:48.376 And this resulted in a shift of
NOTE Confidence: 0.81864739

00:17:48.376 --> 00:17:52.359 patients in the post acuity circle era
NOTE Confidence: 0.81864739

00:17:52.359 --> 00:17:56.375 to being transplanted for HCC and a
NOTE Confidence: 0.81864739

00:17:56.375 --> 00:17:59.830 meld in the 15 to 28 era area versus

NOTE Confidence: 0.81864739

00:17:59.830 --> 00:18:02.950 the higher melds where that meld

NOTE Confidence: 0.81864739

00:18:02.950 --> 00:18:05.052 elevator where transplanting patients

NOTE Confidence: 0.81864739

00:18:05.052 --> 00:18:10.078 with HCC even out to melds of 40 in the past.

NOTE Confidence: 0.81864739

00:18:10.080 --> 00:18:12.392 When we see the look to the future

NOTE Confidence: 0.81864739

00:18:12.392 --> 00:18:14.836 to find out what's coming up next,

NOTE Confidence: 0.81864739

00:18:14.840 --> 00:18:15.821 as we said,

NOTE Confidence: 0.81864739

00:18:15.821 --> 00:18:17.783 there's going to be more alignment,

NOTE Confidence: 0.81864739

00:18:17.790 --> 00:18:19.845 and in the terminology between

NOTE Confidence: 0.81864739

00:18:19.845 --> 00:18:22.048 the lyrae's classification for HCC

NOTE Confidence: 0.81864739

00:18:22.048 --> 00:18:24.730 along with the OPT N classification.

NOTE Confidence: 0.81864739

00:18:24.730 --> 00:18:27.136 So there'll be one common terminology.

NOTE Confidence: 0.81864739

00:18:27.140 --> 00:18:29.882 We will see patients that have

NOTE Confidence: 0.81864739

00:18:29.882 --> 00:18:32.320 further refinement for HCC that

NOTE Confidence: 0.81864739

00:18:32.320 --> 00:18:34.965 recurs in patients regardless of

NOTE Confidence: 0.81864739

00:18:34.965 --> 00:18:37.904 whether they've been treated with

NOTE Confidence: 0.81864739

00:18:37.904 --> 00:18:40.127 resection ablation embolization.

NOTE Confidence: 0.81864739

00:18:40.130 --> 00:18:42.440 Or immunotherapy and bypassing the

NOTE Confidence: 0.81864739

00:18:42.440 --> 00:18:45.450 six month wait and moving forward.

NOTE Confidence: 0.81864739

00:18:45.450 --> 00:18:47.550 We'll be discussing the concept

NOTE Confidence: 0.81864739

00:18:47.550 --> 00:18:48.810 of continuous distribution,

NOTE Confidence: 0.81864739

00:18:48.810 --> 00:18:51.210 so we'll get away with arbitrary

NOTE Confidence: 0.81864739

00:18:51.210 --> 00:18:53.284 circle allocation and move toward

NOTE Confidence: 0.81864739

00:18:53.284 --> 00:18:55.284 a classification system in which

NOTE Confidence: 0.81864739

00:18:55.284 --> 00:18:58.018 we'll be looking at a point based

NOTE Confidence: 0.81864739

00:18:58.018 --> 00:19:00.136 system where patients with ACC will

NOTE Confidence: 0.81864739

00:19:00.136 --> 00:19:02.165 be getting points based on their

NOTE Confidence: 0.81864739

00:19:02.165 --> 00:19:04.198 need for a transplant different than

NOTE Confidence: 0.81864739

00:19:04.198 --> 00:19:05.986 their mortality on the wait list.

NOTE Confidence: 0.81864739

00:19:05.990 --> 00:19:08.412 And so this will be a project

NOTE Confidence: 0.81864739

00:19:08.412 --> 00:19:09.104 that's oncoming.

NOTE Confidence: 0.81864739

00:19:09.110 --> 00:19:10.394 I want to thank you for

NOTE Confidence: 0.81864739

00:19:10.394 --> 00:19:11.250 the ability to present.

NOTE Confidence: 0.81864739

00:19:11.250 --> 00:19:13.644 This information to you and we'll look

NOTE Confidence: 0.81864739

00:19:13.644 --> 00:19:15.433 forward to answering your questions

NOTE Confidence: 0.81864739

00:19:15.433 --> 00:19:17.646 in the upcoming discussion session.

NOTE Confidence: 0.81864739

00:19:17.646 --> 00:19:18.390 Thank you.