

WEBVTT

NOTE duration:"00:31:36"

NOTE recognizability:0.825

NOTE language:en-us

NOTE Confidence: 0.901699151666667

00:00:03.830 --> 00:00:04.838 Good morning everyone.

NOTE Confidence: 0.901699151666667

00:00:04.838 --> 00:00:07.890 I'd like to welcome you to the next talk.

NOTE Confidence: 0.901699151666667

00:00:07.890 --> 00:00:11.698 You know you know meeting today and the

NOTE Confidence: 0.901699151666667

00:00:11.698 --> 00:00:13.784 speaker is Doctor Michael Levinson,

NOTE Confidence: 0.901699151666667

00:00:13.784 --> 00:00:16.190 who's the Gladys Phillip Crawford professor

NOTE Confidence: 0.901699151666667

00:00:16.250 --> 00:00:18.658 of medicine in the section of digestive

NOTE Confidence: 0.901699151666667

00:00:18.658 --> 00:00:20.658 disease and professor of cell biology.

NOTE Confidence: 0.901699151666667

00:00:20.660 --> 00:00:23.316 As in as mentioned earlier today by Jim,

NOTE Confidence: 0.901699151666667

00:00:23.320 --> 00:00:25.434 is the director of the Year Liver

NOTE Confidence: 0.901699151666667

00:00:25.434 --> 00:00:27.576 Center and also serve as Chief of

NOTE Confidence: 0.901699151666667

00:00:27.576 --> 00:00:29.220 Digestive Disease for 15 years.

NOTE Confidence: 0.901699151666667

00:00:29.220 --> 00:00:31.362 And also was the editor in Chief

NOTE Confidence: 0.901699151666667

00:00:31.362 --> 00:00:33.020 of Hepatology for five years.

NOTE Confidence: 0.901699151666667

00:00:33.020 --> 00:00:35.694 It's like pleasure to welcome Michael and.

NOTE Confidence: 0.901699151666667

00:00:35.700 --> 00:00:38.308 The title of this talk will be Concordia,

NOTE Confidence: 0.901699151666667

00:00:38.310 --> 00:00:40.310 Poway, rest crescut the

NOTE Confidence: 0.901699151666667

00:00:40.310 --> 00:00:41.810 new Millennium Michael,

NOTE Confidence: 0.901699151666667

00:00:41.810 --> 00:00:42.479 please go ahead.

NOTE Confidence: 0.93476635

00:00:45.780 --> 00:00:48.460 Thank you very much, Gary.

NOTE Confidence: 0.93476635

00:00:48.460 --> 00:00:52.212 So during my session I will be talking

NOTE Confidence: 0.93476635

00:00:52.212 --> 00:00:56.088 about the current state of liver related

NOTE Confidence: 0.93476635

00:00:56.088 --> 00:01:00.553 activities at Yale to build on the the

NOTE Confidence: 0.93476635

00:01:00.553 --> 00:01:03.613 background that that that Jim nicely

NOTE Confidence: 0.93476635

00:01:03.620 --> 00:01:06.040 provided during the previous talk.

NOTE Confidence: 0.93476635

00:01:06.040 --> 00:01:08.668 Next slide, please.

NOTE Confidence: 0.93476635

00:01:08.670 --> 00:01:10.195 And I'll be talking about

NOTE Confidence: 0.93476635

00:01:10.195 --> 00:01:11.110 three different things.

NOTE Confidence: 0.93476635

00:01:11.110 --> 00:01:14.170 First, I'll talk about liver related

NOTE Confidence: 0.93476635

00:01:14.170 --> 00:01:16.670 related research activities at Yale.

NOTE Confidence: 0.93476635

00:01:16.670 --> 00:01:20.100 Then I'll talk about the the clinical

NOTE Confidence: 0.93476635

00:01:20.100 --> 00:01:22.310 practice of hepatology at Yale,

NOTE Confidence: 0.93476635

00:01:22.310 --> 00:01:23.939 and then finally,

NOTE Confidence: 0.93476635

00:01:23.939 --> 00:01:26.654 I'll talk about education and

NOTE Confidence: 0.93476635

00:01:26.654 --> 00:01:28.794 training for liver related

NOTE Confidence: 0.93476635

00:01:28.794 --> 00:01:30.810 research and clinical practice.

NOTE Confidence: 0.93476635

00:01:30.810 --> 00:01:32.202 Next slide, please.

NOTE Confidence: 0.93476635

00:01:32.202 --> 00:01:34.948 So first, a liver related research at Yale.

NOTE Confidence: 0.93476635

00:01:34.950 --> 00:01:35.850 Next slide, please.

NOTE Confidence: 0.862059216666667

00:01:37.980 --> 00:01:40.977 So I think in order to talk about this,

NOTE Confidence: 0.862059216666667

00:01:40.980 --> 00:01:43.304 it really is important to begin by

NOTE Confidence: 0.862059216666667

00:01:43.304 --> 00:01:45.726 talking about the the Yale Liver Center

NOTE Confidence: 0.862059216666667

00:01:45.726 --> 00:01:48.497 because that really has for the past 36

NOTE Confidence: 0.862059216666667

00:01:48.497 --> 00:01:51.833 almost 37 years served as the home for

NOTE Confidence: 0.862059216666667

00:01:51.833 --> 00:01:55.786 liver research at Yale's next slide.

NOTE Confidence: 0.862059216666667

00:01:55.786 --> 00:01:58.787 So I I would point out that that
NOTE Confidence: 0.862059216666667

00:01:58.787 --> 00:02:01.313 Yale is one of only three currently
NOTE Confidence: 0.862059216666667

00:02:01.313 --> 00:02:03.587 funded NIH that is in IDK,
NOTE Confidence: 0.862059216666667

00:02:03.590 --> 00:02:05.374 sponsored research centers that
NOTE Confidence: 0.862059216666667

00:02:05.374 --> 00:02:08.050 are focused entirely on the liver.
NOTE Confidence: 0.862059216666667

00:02:08.050 --> 00:02:10.048 We are now concluding our 36th
NOTE Confidence: 0.862059216666667

00:02:10.048 --> 00:02:11.047 year of funding.
NOTE Confidence: 0.862059216666667

00:02:11.050 --> 00:02:12.880 Next slide.
NOTE Confidence: 0.862059216666667

00:02:12.880 --> 00:02:15.100 And we currently have 86 Members
NOTE Confidence: 0.862059216666667

00:02:15.100 --> 00:02:18.222 that is full and associate members who
NOTE Confidence: 0.862059216666667

00:02:18.222 --> 00:02:20.827 draw from 24 different departments
NOTE Confidence: 0.862059216666667

00:02:20.827 --> 00:02:23.366 and sections around the university
NOTE Confidence: 0.862059216666667

00:02:23.366 --> 00:02:26.486 and 75% of our Members have joint
NOTE Confidence: 0.862059216666667

00:02:26.486 --> 00:02:28.920 publications with other center members.
NOTE Confidence: 0.862059216666667

00:02:28.920 --> 00:02:29.940 Next slide please.
NOTE Confidence: 0.576408170833333

00:02:31.970 --> 00:02:35.228 Let's go, Yep, there forward one.

NOTE Confidence: 0.576408170833333
00:02:35.230 --> 00:02:38.806 So this illustrates on the left
NOTE Confidence: 0.576408170833333
00:02:38.806 --> 00:02:41.190 the basic science departments
NOTE Confidence: 0.576408170833333
00:02:41.190 --> 00:02:43.566 that have a liver center members,
NOTE Confidence: 0.576408170833333
00:02:43.570 --> 00:02:46.202 and so you can see there's quite
NOTE Confidence: 0.576408170833333
00:02:46.202 --> 00:02:47.702 broad representation throughout the
NOTE Confidence: 0.576408170833333
00:02:47.702 --> 00:02:49.580 medical school and even from the
NOTE Confidence: 0.576408170833333
00:02:49.580 --> 00:02:51.895 main campus on the right are the
NOTE Confidence: 0.576408170833333
00:02:51.895 --> 00:02:53.580 clinical departments and sections that
NOTE Confidence: 0.576408170833333
00:02:53.641 --> 00:02:55.535 have liver center members and about
NOTE Confidence: 0.576408170833333
00:02:55.535 --> 00:02:58.104 half our as one might expect from
NOTE Confidence: 0.576408170833333
00:02:58.104 --> 00:03:00.204 the section of digestive diseases,
NOTE Confidence: 0.576408170833333
00:03:00.210 --> 00:03:01.589 but you can see that we have.
NOTE Confidence: 0.576408170833333
00:03:01.590 --> 00:03:02.855 Active members involved in in
NOTE Confidence: 0.576408170833333
00:03:02.855 --> 00:03:04.801 in liver research in a number of
NOTE Confidence: 0.576408170833333
00:03:04.801 --> 00:03:06.366 other clinical departments as well,
NOTE Confidence: 0.576408170833333

00:03:06.370 --> 00:03:07.960 and a number of other sections
NOTE Confidence: 0.576408170833333

00:03:07.960 --> 00:03:09.510 within the Department of Medicine.
NOTE Confidence: 0.576408170833333

00:03:09.510 --> 00:03:10.488 Next slide, please.
NOTE Confidence: 0.926363873157895

00:03:13.030 --> 00:03:15.190 This shows the distribution of the
NOTE Confidence: 0.926363873157895

00:03:15.190 --> 00:03:17.690 types of research being done and you
NOTE Confidence: 0.926363873157895

00:03:17.690 --> 00:03:19.676 can see that things are relatively.
NOTE Confidence: 0.926363873157895

00:03:19.680 --> 00:03:21.404 The membership is relatively
NOTE Confidence: 0.926363873157895

00:03:21.404 --> 00:03:22.266 evenly distributed.
NOTE Confidence: 0.926363873157895

00:03:22.270 --> 00:03:24.278 Basic science faculty constitute.
NOTE Confidence: 0.926363873157895

00:03:24.278 --> 00:03:28.660 Just under a third of the center members,
NOTE Confidence: 0.926363873157895

00:03:28.660 --> 00:03:30.552 clinical faculty involved in
NOTE Confidence: 0.926363873157895

00:03:30.552 --> 00:03:32.444 clinical research constitute also
NOTE Confidence: 0.926363873157895

00:03:32.444 --> 00:03:34.860 almost a third of our Members,
NOTE Confidence: 0.926363873157895

00:03:34.860 --> 00:03:35.784 and then finally,
NOTE Confidence: 0.926363873157895

00:03:35.784 --> 00:03:38.224 just over a third of our Members in
NOTE Confidence: 0.926363873157895

00:03:38.224 --> 00:03:40.524 Gray are individuals in clinical

NOTE Confidence: 0.926363873157895
00:03:40.524 --> 00:03:43.129 departments but engaged in basic
NOTE Confidence: 0.926363873157895
00:03:43.129 --> 00:03:45.639 or translational research,
NOTE Confidence: 0.926363873157895
00:03:45.640 --> 00:03:48.279 so there's really quite a wide spectrum
NOTE Confidence: 0.926363873157895
00:03:48.279 --> 00:03:50.519 of liver related research going on
NOTE Confidence: 0.926363873157895
00:03:50.519 --> 00:03:52.927 at our institution by a number of
NOTE Confidence: 0.926363873157895
00:03:52.996 --> 00:03:55.556 investigators in a very collaborative.
NOTE Confidence: 0.926363873157895
00:03:55.560 --> 00:03:59.108 Environment next slide please.
NOTE Confidence: 0.926363873157895
00:03:59.110 --> 00:04:02.617 Our center is divided into 3 thematic
NOTE Confidence: 0.926363873157895
00:04:02.617 --> 00:04:05.769 areas that represent the the main areas
NOTE Confidence: 0.926363873157895
00:04:05.769 --> 00:04:08.970 of strength of of of liver research.
NOTE Confidence: 0.926363873157895
00:04:08.970 --> 00:04:10.350 At our institution,
NOTE Confidence: 0.926363873157895
00:04:10.350 --> 00:04:12.650 one is immunology and inflammation,
NOTE Confidence: 0.926363873157895
00:04:12.650 --> 00:04:14.905 one is hepatic metabolism and
NOTE Confidence: 0.926363873157895
00:04:14.905 --> 00:04:16.709 one is epithelial biology.
NOTE Confidence: 0.926363873157895
00:04:16.710 --> 00:04:17.985 Next slide please.
NOTE Confidence: 0.926363873157895

00:04:17.985 --> 00:04:20.535 So this Venn diagram illustrates that
NOTE Confidence: 0.926363873157895

00:04:20.535 --> 00:04:23.366 and you can see that there's overlap,
NOTE Confidence: 0.926363873157895

00:04:23.370 --> 00:04:25.038 and indeed I would say that
NOTE Confidence: 0.926363873157895

00:04:25.038 --> 00:04:26.150 many of our Members,
NOTE Confidence: 0.926363873157895

00:04:26.150 --> 00:04:28.490 although their main research interests, may.
NOTE Confidence: 0.926363873157895

00:04:28.490 --> 00:04:30.390 May be described by one
NOTE Confidence: 0.926363873157895

00:04:30.390 --> 00:04:31.910 of these three topics.
NOTE Confidence: 0.926363873157895

00:04:31.910 --> 00:04:33.735 They generally are involved in
NOTE Confidence: 0.926363873157895

00:04:33.735 --> 00:04:36.008 research that I would say overlaps
NOTE Confidence: 0.926363873157895

00:04:36.008 --> 00:04:38.294 with these other topics as well,
NOTE Confidence: 0.926363873157895

00:04:38.300 --> 00:04:40.820 and here too you can see that there's
NOTE Confidence: 0.926363873157895

00:04:40.820 --> 00:04:42.519 a relatively even distribution of
NOTE Confidence: 0.926363873157895

00:04:42.519 --> 00:04:44.857 the number of Members in each of
NOTE Confidence: 0.926363873157895

00:04:44.923 --> 00:04:46.735 the three main areas of research
NOTE Confidence: 0.926363873157895

00:04:46.735 --> 00:04:49.294 and and each of these three areas
NOTE Confidence: 0.926363873157895

00:04:49.294 --> 00:04:52.430 relate to one or more specific types

NOTE Confidence: 0.926363873157895
00:04:52.515 --> 00:04:55.419 of liver disease states next slide,
NOTE Confidence: 0.926363873157895
00:04:55.420 --> 00:04:57.640 please.
NOTE Confidence: 0.926363873157895
00:04:57.640 --> 00:05:00.455 I would just like to mention the
NOTE Confidence: 0.926363873157895
00:05:00.455 --> 00:05:03.485 three core facilities that our center
NOTE Confidence: 0.926363873157895
00:05:03.490 --> 00:05:06.976 offers and this is to highlight the
NOTE Confidence: 0.926363873157895
00:05:06.976 --> 00:05:09.720 sorts of institutional resources that
NOTE Confidence: 0.926363873157895
00:05:09.720 --> 00:05:13.200 support liver related research at Yale.
NOTE Confidence: 0.926363873157895
00:05:13.200 --> 00:05:15.727 One is the advanced light microscopy core,
NOTE Confidence: 0.926363873157895
00:05:15.730 --> 00:05:17.122 the next is a molecular and
NOTE Confidence: 0.926363873157895
00:05:17.122 --> 00:05:18.050 cellular and organoid core,
NOTE Confidence: 0.926363873157895
00:05:18.050 --> 00:05:19.700 and the third is the clinical
NOTE Confidence: 0.926363873157895
00:05:19.700 --> 00:05:20.525 and translational core.
NOTE Confidence: 0.926363873157895
00:05:20.530 --> 00:05:22.204 The next slide explains these in
NOTE Confidence: 0.926363873157895
00:05:22.204 --> 00:05:24.050 just a little bit more detail.
NOTE Confidence: 0.926363873157895
00:05:24.050 --> 00:05:25.226 The morphology core,
NOTE Confidence: 0.926363873157895

00:05:25.226 --> 00:05:27.578 which is really at this point.
NOTE Confidence: 0.926363873157895

00:05:27.580 --> 00:05:29.110 Largely in advanced light microscopy,
NOTE Confidence: 0.926363873157895

00:05:29.110 --> 00:05:31.550 core offers confocal and super
NOTE Confidence: 0.926363873157895

00:05:31.550 --> 00:05:32.526 resolution microscopy,
NOTE Confidence: 0.926363873157895

00:05:32.530 --> 00:05:34.714 light sheet microscopy multiphoton
NOTE Confidence: 0.926363873157895

00:05:34.714 --> 00:05:37.444 imaging and swept field microscopy.
NOTE Confidence: 0.926363873157895

00:05:37.450 --> 00:05:39.255 The molecular and cellular core
NOTE Confidence: 0.926363873157895

00:05:39.255 --> 00:05:41.060 offers mouse models that are
NOTE Confidence: 0.926363873157895

00:05:41.124 --> 00:05:42.688 relevant to liver disease.
NOTE Confidence: 0.926363873157895

00:05:42.690 --> 00:05:45.329 Also a number of relevant cell lines.
NOTE Confidence: 0.926363873157895

00:05:45.330 --> 00:05:47.760 We provide cell isolations from
NOTE Confidence: 0.926363873157895

00:05:47.760 --> 00:05:50.762 mouse and more recently, human liver.
NOTE Confidence: 0.926363873157895

00:05:50.762 --> 00:05:54.444 We also provide mouse and human kalangis
NOTE Confidence: 0.926363873157895

00:05:54.444 --> 00:05:57.697 site organoids and also access to.
NOTE Confidence: 0.926363873157895

00:05:57.700 --> 00:06:00.025 Certain types of common molecular
NOTE Confidence: 0.926363873157895

00:06:00.025 --> 00:06:01.885 biology equipment and resources.

NOTE Confidence: 0.926363873157895
00:06:01.890 --> 00:06:03.735 Our clinical and translational core
NOTE Confidence: 0.926363873157895
00:06:03.735 --> 00:06:06.320 provides access to a research coordinator.
NOTE Confidence: 0.926363873157895
00:06:06.320 --> 00:06:07.546 Also biostatisticians,
NOTE Confidence: 0.926363873157895
00:06:07.546 --> 00:06:10.465 and now a bioinformatics expert.
NOTE Confidence: 0.926363873157895
00:06:10.465 --> 00:06:13.720 We also maintain a growing patient database,
NOTE Confidence: 0.926363873157895
00:06:13.720 --> 00:06:16.025 biospecimen repository and most recently
NOTE Confidence: 0.926363873157895
00:06:16.025 --> 00:06:18.875 we've added in access to patient
NOTE Confidence: 0.926363873157895
00:06:18.875 --> 00:06:21.240 imaging data to this repository.
NOTE Confidence: 0.926363873157895
00:06:21.240 --> 00:06:23.619 Next slide please.
NOTE Confidence: 0.926363873157895
00:06:23.620 --> 00:06:26.348 I'd like to say a word about the
NOTE Confidence: 0.926363873157895
00:06:26.348 --> 00:06:28.352 productivity of of people doing
NOTE Confidence: 0.926363873157895
00:06:28.352 --> 00:06:30.437 liver related research at Yale.
NOTE Confidence: 0.926363873157895
00:06:30.440 --> 00:06:33.296 Members who have used the three cores
NOTE Confidence: 0.926363873157895
00:06:33.296 --> 00:06:36.089 that I've just described published
NOTE Confidence: 0.926363873157895
00:06:36.090 --> 00:06:38.394 395 liver related papers during our
NOTE Confidence: 0.926363873157895

00:06:38.394 --> 00:06:41.019 most recent five year funding period,
NOTE Confidence: 0.926363873157895

00:06:41.020 --> 00:06:43.365 and this includes papers that were in
NOTE Confidence: 0.926363873157895

00:06:43.365 --> 00:06:46.117 such high impact journals as nature science,
NOTE Confidence: 0.746154348

00:06:46.120 --> 00:06:49.514 PNAS, cell, cell metabolism, JC, I,
NOTE Confidence: 0.746154348

00:06:49.514 --> 00:06:51.116 gastroenterology and hepatology.
NOTE Confidence: 0.746154348

00:06:51.116 --> 00:06:54.320 Now I thought long and hard.
NOTE Confidence: 0.746154348

00:06:54.320 --> 00:06:57.170 About what are some of the
NOTE Confidence: 0.746154348

00:06:57.170 --> 00:06:59.950 more important or high profile?
NOTE Confidence: 0.746154348

00:06:59.950 --> 00:07:01.446 Publications to come from
NOTE Confidence: 0.746154348

00:07:01.446 --> 00:07:03.316 Yale related to the liver,
NOTE Confidence: 0.746154348

00:07:03.320 --> 00:07:06.416 and it's a bit of a Sophie's choice
NOTE Confidence: 0.746154348

00:07:06.416 --> 00:07:08.800 type thing there really were.
NOTE Confidence: 0.746154348

00:07:08.800 --> 00:07:09.830 So many to choose from,
NOTE Confidence: 0.746154348

00:07:09.830 --> 00:07:11.358 but I did come up with a list
NOTE Confidence: 0.746154348

00:07:11.358 --> 00:07:12.780 of some of the things that
NOTE Confidence: 0.746154348

00:07:12.780 --> 00:07:14.262 in my mind were most notable.

NOTE Confidence: 0.746154348

00:07:14.270 --> 00:07:15.560 Next slide please,

NOTE Confidence: 0.746154348

00:07:15.560 --> 00:07:17.710 and I'll show you three

NOTE Confidence: 0.746154348

00:07:17.710 --> 00:07:19.854 different slides that each have

NOTE Confidence: 0.746154348

00:07:19.854 --> 00:07:23.650 different sorts of discoveries.

NOTE Confidence: 0.746154348

00:07:23.650 --> 00:07:27.727 The first slide is ones that I think are.

NOTE Confidence: 0.746154348

00:07:27.730 --> 00:07:29.786 Clinically highly relevant today.

NOTE Confidence: 0.746154348

00:07:29.786 --> 00:07:31.328 The first observation.

NOTE Confidence: 0.746154348

00:07:31.330 --> 00:07:33.838 The oldest was that greater than

NOTE Confidence: 0.746154348

00:07:33.840 --> 00:07:36.395 250 neutrophils per milliliter of

NOTE Confidence: 0.746154348

00:07:36.395 --> 00:07:39.105 ascites can be taken to indicate

NOTE Confidence: 0.746154348

00:07:39.105 --> 00:07:40.422 spontaneous bacterial peritonitis

NOTE Confidence: 0.746154348

00:07:40.422 --> 00:07:42.310 in patients with cirrhosis.

NOTE Confidence: 0.746154348

00:07:42.310 --> 00:07:45.950 The second was figuring out how

NOTE Confidence: 0.746154348

00:07:45.950 --> 00:07:47.650 to measure the hepatic venous

NOTE Confidence: 0.746154348

00:07:47.650 --> 00:07:49.397 pressure gradient and then figuring

NOTE Confidence: 0.746154348

00:07:49.397 --> 00:07:51.335 out that that measurement can be
NOTE Confidence: 0.746154348

00:07:51.335 --> 00:07:53.388 used to reflect a portal pressure,
NOTE Confidence: 0.746154348

00:07:53.390 --> 00:07:56.140 and this really opened up just
NOTE Confidence: 0.746154348

00:07:56.140 --> 00:07:57.990 a wide field of research.
NOTE Confidence: 0.746154348

00:07:57.990 --> 00:07:59.950 In terms of what one can calculate
NOTE Confidence: 0.746154348

00:07:59.950 --> 00:08:01.550 based on knowing the portal
NOTE Confidence: 0.746154348

00:08:01.550 --> 00:08:03.996 pressure next was the experimental
NOTE Confidence: 0.746154348

00:08:03.996 --> 00:08:06.520 evidence that beta blockers improve
NOTE Confidence: 0.746154348

00:08:06.520 --> 00:08:07.520 portal hypertension.
NOTE Confidence: 0.746154348

00:08:07.520 --> 00:08:09.590 And of course this ultimately was
NOTE Confidence: 0.746154348

00:08:09.590 --> 00:08:11.415 the cornerstone of the entire
NOTE Confidence: 0.746154348

00:08:11.415 --> 00:08:13.707 idea that one could treat portal
NOTE Confidence: 0.746154348

00:08:13.707 --> 00:08:15.470 hypertension with beta blockers.
NOTE Confidence: 0.746154348

00:08:15.470 --> 00:08:19.830 Next I would say Jim Boyer and his
NOTE Confidence: 0.746154348

00:08:19.830 --> 00:08:22.159 colleagues discovered the bilasa
NOTE Confidence: 0.746154348

00:08:22.159 --> 00:08:26.120 transporter OST Alpha and beta 20 years ago,

NOTE Confidence: 0.746154348

00:08:26.120 --> 00:08:27.970 and then Sylvia Villa Renho,

NOTE Confidence: 0.746154348

00:08:27.970 --> 00:08:29.065 also at Yale,

NOTE Confidence: 0.746154348

00:08:29.065 --> 00:08:31.255 identified just a few years ago

NOTE Confidence: 0.746154348

00:08:31.255 --> 00:08:33.602 that it was the defect responsible

NOTE Confidence: 0.746154348

00:08:33.602 --> 00:08:36.415 for a human disease in in, in,

NOTE Confidence: 0.746154348

00:08:36.415 --> 00:08:40.105 in a in a particular patient.

NOTE Confidence: 0.746154348

00:08:40.110 --> 00:08:42.384 There also was the observation 10

NOTE Confidence: 0.746154348

00:08:42.384 --> 00:08:44.885 years ago that the microbiome can

NOTE Confidence: 0.746154348

00:08:44.885 --> 00:08:47.145 affect the progression from fatty

NOTE Confidence: 0.746154348

00:08:47.145 --> 00:08:50.710 liver to Nash and then three different

NOTE Confidence: 0.746154348

00:08:50.710 --> 00:08:53.460 fatty liver or metabolic syndrome

NOTE Confidence: 0.746154348

00:08:53.460 --> 00:08:56.587 genes were identified here at Yale.

NOTE Confidence: 0.746154348

00:08:56.590 --> 00:08:57.562 Next slide,

NOTE Confidence: 0.746154348

00:08:57.562 --> 00:09:00.964 I would say these are observations that

NOTE Confidence: 0.746154348

00:09:00.964 --> 00:09:03.762 I all but one are fairly recent and I

NOTE Confidence: 0.746154348

00:09:03.762 --> 00:09:06.289 think these all have the potential to
NOTE Confidence: 0.746154348

00:09:06.289 --> 00:09:08.169 have very high translational value,
NOTE Confidence: 0.746154348

00:09:08.170 --> 00:09:11.418 but that is in the process of being
NOTE Confidence: 0.746154348

00:09:11.418 --> 00:09:14.666 evaluated first is the role of nitric
NOTE Confidence: 0.746154348

00:09:14.666 --> 00:09:17.016 oxide in developing the hyperdynamic,
NOTE Confidence: 0.746154348

00:09:17.020 --> 00:09:20.029 circulation and cirrhosis.
NOTE Confidence: 0.746154348

00:09:20.030 --> 00:09:22.125 Second was the observation more
NOTE Confidence: 0.746154348

00:09:22.125 --> 00:09:25.500 recently that a gut path of violence
NOTE Confidence: 0.746154348

00:09:25.500 --> 00:09:27.297 drives autoimmune hepatitis.
NOTE Confidence: 0.746154348

00:09:27.300 --> 00:09:30.528 Third was the observation that a
NOTE Confidence: 0.746154348

00:09:30.528 --> 00:09:32.680 non toxic mitochondrial protoform
NOTE Confidence: 0.746154348

00:09:32.771 --> 00:09:35.219 can reduce liver fat and this,
NOTE Confidence: 0.746154348

00:09:35.220 --> 00:09:38.538 I believe is now in clinical trials.
NOTE Confidence: 0.746154348

00:09:38.540 --> 00:09:40.868 Next is the role for a toll like
NOTE Confidence: 0.746154348

00:09:40.868 --> 00:09:43.357 receptor 9 in the development of Nash,
NOTE Confidence: 0.746154348

00:09:43.360 --> 00:09:45.296 and I have to say more broadly, Dr.

NOTE Confidence: 0.746154348

00:09:45.296 --> 00:09:46.800 Mahallan colleagues have really

NOTE Confidence: 0.746154348

00:09:46.800 --> 00:09:49.088 been the forefront of advancing the

NOTE Confidence: 0.746154348

00:09:49.088 --> 00:09:51.496 concept of sterile inflammation in the liver,

NOTE Confidence: 0.746154348

00:09:51.500 --> 00:09:54.338 and what mediates it and finally

NOTE Confidence: 0.746154348

00:09:54.340 --> 00:09:56.148 was another relatively recent

NOTE Confidence: 0.746154348

00:09:56.148 --> 00:09:58.408 observation that the microbiome is

NOTE Confidence: 0.746154348

00:09:58.408 --> 00:10:01.116 able to communicate with the central

NOTE Confidence: 0.746154348

00:10:01.116 --> 00:10:03.306 nervous system to mediate metabolic

NOTE Confidence: 0.746154348

00:10:03.380 --> 00:10:05.280 syndrome and and fatty liver.

NOTE Confidence: 0.746154348

00:10:05.280 --> 00:10:06.357 Next slide, please.

NOTE Confidence: 0.746154348

00:10:06.357 --> 00:10:08.870 And here are a few more basic

NOTE Confidence: 0.746154348

00:10:08.943 --> 00:10:11.578 concepts that were established here.

NOTE Confidence: 0.746154348

00:10:11.580 --> 00:10:11.926 First,

NOTE Confidence: 0.746154348

00:10:11.926 --> 00:10:14.694 Jim Boyer alluded to this in his talk,

NOTE Confidence: 0.746154348

00:10:14.700 --> 00:10:16.780 but he.

NOTE Confidence: 0.746154348

00:10:16.780 --> 00:10:19.132 He was the first to publish
NOTE Confidence: 0.746154348

00:10:19.132 --> 00:10:20.700 that hepatocytes are polarized
NOTE Confidence: 0.794956357333333

00:10:20.769 --> 00:10:23.269 epithelium and he recognized distinct
NOTE Confidence: 0.794956357333333

00:10:23.270 --> 00:10:25.640 transporters and channels on the
NOTE Confidence: 0.794956357333333

00:10:25.640 --> 00:10:27.536 apical versus the basolateral
NOTE Confidence: 0.794956357333333

00:10:27.536 --> 00:10:29.289 membrane of the hepatocyte.
NOTE Confidence: 0.794956357333333

00:10:29.290 --> 00:10:32.626 And this observation led to literally
NOTE Confidence: 0.794956357333333

00:10:32.626 --> 00:10:34.850 hundreds of subsequent publications,
NOTE Confidence: 0.794956357333333

00:10:34.850 --> 00:10:37.570 both here at Yale and around the world
NOTE Confidence: 0.794956357333333

00:10:37.570 --> 00:10:39.057 that characterized the different
NOTE Confidence: 0.794956357333333

00:10:39.057 --> 00:10:41.277 transporters and channels that are on
NOTE Confidence: 0.794956357333333

00:10:41.277 --> 00:10:43.662 the apical versus the base lateral side
NOTE Confidence: 0.794956357333333

00:10:43.662 --> 00:10:45.780 of the parasite and that characterize
NOTE Confidence: 0.794956357333333

00:10:45.780 --> 00:10:48.960 the regulation of expression of these.
NOTE Confidence: 0.794956357333333

00:10:48.960 --> 00:10:51.265 Membrane proteins and the characterized
NOTE Confidence: 0.794956357333333

00:10:51.265 --> 00:10:55.038 what goes awry in the various cholestatic

NOTE Confidence: 0.794956357333333
00:10:55.038 --> 00:10:58.498 conditions in these particular transporters.
NOTE Confidence: 0.794956357333333
00:10:58.500 --> 00:11:00.804 This work was all facilitated by
NOTE Confidence: 0.794956357333333
00:11:00.804 --> 00:11:03.166 development of models to study bio
NOTE Confidence: 0.794956357333333
00:11:03.166 --> 00:11:05.440 secretion at the single cell level.
NOTE Confidence: 0.794956357333333
00:11:05.440 --> 00:11:08.560 Doctor Boyer mentioned petite couplets
NOTE Confidence: 0.794956357333333
00:11:08.560 --> 00:11:11.692 which which they reported in 1984.
NOTE Confidence: 0.794956357333333
00:11:11.692 --> 00:11:12.236 His group,
NOTE Confidence: 0.794956357333333
00:11:12.236 --> 00:11:14.480 and I believe it around the same time,
NOTE Confidence: 0.794956357333333
00:11:14.480 --> 00:11:16.245 the group, the Mayo Clinic
NOTE Confidence: 0.794956357333333
00:11:16.245 --> 00:11:17.657 described isolated balduck units,
NOTE Confidence: 0.794956357333333
00:11:17.660 --> 00:11:19.436 which similarly allowed.
NOTE Confidence: 0.794956357333333
00:11:19.436 --> 00:11:22.988 These sorts of studies to characterize
NOTE Confidence: 0.794956357333333
00:11:22.988 --> 00:11:25.445 secretory mechanisms in in
NOTE Confidence: 0.794956357333333
00:11:25.445 --> 00:11:27.813 cholangiocytes and more recently
NOTE Confidence: 0.794956357333333
00:11:27.813 --> 00:11:30.490 Doctor Strzalkowski and his group.
NOTE Confidence: 0.794956357333333

00:11:30.490 --> 00:11:33.610 Reported a particular way to make
NOTE Confidence: 0.794956357333333

00:11:33.610 --> 00:11:35.690 collegiate organoids from patients
NOTE Confidence: 0.794956357333333

00:11:35.770 --> 00:11:38.752 which allows the world of personalized
NOTE Confidence: 0.794956357333333

00:11:38.752 --> 00:11:41.433 medicine to intersect with the
NOTE Confidence: 0.794956357333333

00:11:41.433 --> 00:11:43.269 field of cholangiohepatitis.
NOTE Confidence: 0.794956357333333

00:11:43.270 --> 00:11:47.386 I'll also mention that Doctor Bennett's
NOTE Confidence: 0.794956357333333

00:11:47.386 --> 00:11:50.932 group and my group identified separate
NOTE Confidence: 0.794956357333333

00:11:50.932 --> 00:11:52.536 machinery and signaling pathways
NOTE Confidence: 0.794956357333333

00:11:52.536 --> 00:11:54.768 in the nucleus that were distinct
NOTE Confidence: 0.794956357333333

00:11:54.768 --> 00:11:56.756 from what was in the cytosol and
NOTE Confidence: 0.794956357333333

00:11:56.756 --> 00:11:58.728 that these offered different ways
NOTE Confidence: 0.794956357333333

00:11:58.728 --> 00:12:00.763 to control metabolism and cell
NOTE Confidence: 0.794956357333333

00:12:00.763 --> 00:12:02.220 proliferation in hepatocytes.
NOTE Confidence: 0.794956357333333

00:12:02.220 --> 00:12:04.845 And I'll say more broadly.
NOTE Confidence: 0.794956357333333

00:12:04.850 --> 00:12:07.139 We we've had a program project grant
NOTE Confidence: 0.794956357333333

00:12:07.139 --> 00:12:10.065 for the past 20 years which is now

NOTE Confidence: 0.794956357333333
00:12:10.065 --> 00:12:12.388 ending to examine and characterize the
NOTE Confidence: 0.794956357333333
00:12:12.388 --> 00:12:14.674 biology of the parasite nucleus and
NOTE Confidence: 0.794956357333333
00:12:14.674 --> 00:12:17.167 this PPG resulted in 170 publications
NOTE Confidence: 0.794956357333333
00:12:17.167 --> 00:12:19.861 and we also created and distributed
NOTE Confidence: 0.794956357333333
00:12:19.861 --> 00:12:22.363 novel constructs to probe different
NOTE Confidence: 0.794956357333333
00:12:22.363 --> 00:12:24.828 subcellular pools of calcium and
NOTE Confidence: 0.794956357333333
00:12:24.828 --> 00:12:27.994 over 270 labs around the world have
NOTE Confidence: 0.794956357333333
00:12:27.994 --> 00:12:30.680 requested and received these constructs.
NOTE Confidence: 0.794956357333333
00:12:30.680 --> 00:12:32.306 Next slide,
NOTE Confidence: 0.794956357333333
00:12:32.306 --> 00:12:33.119 please.
NOTE Confidence: 0.794956357333333
00:12:33.120 --> 00:12:35.600 Now I'd like to talk about what's the
NOTE Confidence: 0.794956357333333
00:12:35.600 --> 00:12:37.894 current state of clinical practice in the
NOTE Confidence: 0.794956357333333
00:12:37.894 --> 00:12:40.300 area of hepatology at our institution.
NOTE Confidence: 0.794956357333333
00:12:40.300 --> 00:12:42.658 Next slide, please.
NOTE Confidence: 0.794956357333333
00:12:42.660 --> 00:12:43.884 So first of all,
NOTE Confidence: 0.794956357333333

00:12:43.884 --> 00:12:46.519 this is the volume of liver patients seen
NOTE Confidence: 0.794956357333333

00:12:46.519 --> 00:12:49.536 at Yale during the past year over 5000,
NOTE Confidence: 0.794956357333333

00:12:49.536 --> 00:12:52.014 unique patients with a primary or
NOTE Confidence: 0.794956357333333

00:12:52.014 --> 00:12:54.153 secondary liver diagnosis were admitted
NOTE Confidence: 0.794956357333333

00:12:54.153 --> 00:12:57.044 to the Yale New Haven Health System.
NOTE Confidence: 0.794956357333333

00:12:57.050 --> 00:12:59.230 Total liver related admissions
NOTE Confidence: 0.794956357333333

00:12:59.230 --> 00:13:00.865 were over 7000.
NOTE Confidence: 0.794956357333333

00:13:00.870 --> 00:13:03.094 In the outpatient setting,
NOTE Confidence: 0.794956357333333

00:13:03.094 --> 00:13:05.740 over 15,500 unique patients with a
NOTE Confidence: 0.794956357333333

00:13:05.740 --> 00:13:07.830 liver related diagnosis were seen,
NOTE Confidence: 0.794956357333333

00:13:07.830 --> 00:13:11.714 and over 46,800 outpatient visits
NOTE Confidence: 0.794956357333333

00:13:11.714 --> 00:13:15.362 were for a liver related diagnosis.
NOTE Confidence: 0.794956357333333

00:13:15.370 --> 00:13:18.109 Next slide, please.
NOTE Confidence: 0.794956357333333

00:13:18.110 --> 00:13:20.534 I'd like to just talk about a few
NOTE Confidence: 0.794956357333333

00:13:20.534 --> 00:13:22.487 liver related activities and procedures
NOTE Confidence: 0.794956357333333

00:13:22.487 --> 00:13:25.469 during the past year at our institution,

NOTE Confidence: 0.794956357333333
00:13:25.470 --> 00:13:27.966 one in seven discharges from Yale,
NOTE Confidence: 0.794956357333333
00:13:27.970 --> 00:13:30.658 New Haven Hospital had a primary
NOTE Confidence: 0.794956357333333
00:13:30.658 --> 00:13:32.450 or secondary liver diagnosis.
NOTE Confidence: 0.794956357333333
00:13:32.450 --> 00:13:34.984 There is a weekly tumor board which
NOTE Confidence: 0.794956357333333
00:13:34.984 --> 00:13:37.852 is run by Mario Strozewski and in
NOTE Confidence: 0.794956357333333
00:13:37.852 --> 00:13:40.171 the past year 619 patients were
NOTE Confidence: 0.794956357333333
00:13:40.171 --> 00:13:41.906 discussed and it's important to
NOTE Confidence: 0.794956357333333
00:13:41.906 --> 00:13:43.064 highlight the multidisciplinary
NOTE Confidence: 0.794956357333333
00:13:43.064 --> 00:13:45.506 nature of these discussions at every
NOTE Confidence: 0.794956357333333
00:13:45.506 --> 00:13:47.649 single weekly tumor board meeting
NOTE Confidence: 0.794956357333333
00:13:47.649 --> 00:13:48.936 there was representation.
NOTE Confidence: 0.794956357333333
00:13:48.940 --> 00:13:52.245 Like Hepatologist medical and surgical
NOTE Confidence: 0.794956357333333
00:13:52.245 --> 00:13:54.234 oncologist transplant physicians
NOTE Confidence: 0.794956357333333
00:13:54.234 --> 00:13:56.220 and diagnostic interventional
NOTE Confidence: 0.794956357333333
00:13:56.220 --> 00:13:58.206 radiologists and pathologists,
NOTE Confidence: 0.794956357333333

00:13:58.210 --> 00:13:59.518 our interventional radiology
NOTE Confidence: 0.794956357333333

00:13:59.518 --> 00:14:02.134 program is also extremely busy in
NOTE Confidence: 0.794956357333333

00:14:02.134 --> 00:14:04.427 terms of liver related activities.
NOTE Confidence: 0.794956357333333

00:14:04.430 --> 00:14:06.370 Over 2000 procedures have been
NOTE Confidence: 0.794956357333333

00:14:06.370 --> 00:14:08.310 performed in the past year,
NOTE Confidence: 0.70260257

00:14:08.310 --> 00:14:09.867 including tips transjugular,
NOTE Confidence: 0.70260257

00:14:09.867 --> 00:14:11.943 percutaneous liver biopsies and
NOTE Confidence: 0.70260257

00:14:11.943 --> 00:14:14.010 local regional therapy of HCC.
NOTE Confidence: 0.70260257

00:14:14.010 --> 00:14:16.404 I would point out that that's almost
NOTE Confidence: 0.70260257

00:14:16.404 --> 00:14:19.840 seven liver related procedures a day.
NOTE Confidence: 0.70260257

00:14:19.840 --> 00:14:22.360 365 days a year, and then similarly,
NOTE Confidence: 0.70260257

00:14:22.360 --> 00:14:23.804 the surgical pathology department
NOTE Confidence: 0.70260257

00:14:23.804 --> 00:14:25.970 has processed and reviewed over 1000
NOTE Confidence: 0.70260257

00:14:26.027 --> 00:14:27.677 liver biopsies in the past year.
NOTE Confidence: 0.70260257

00:14:27.680 --> 00:14:31.280 That's over three that's about 3 per day,
NOTE Confidence: 0.70260257

00:14:31.280 --> 00:14:33.471 so there's a lot of liver related

NOTE Confidence: 0.70260257

00:14:33.471 --> 00:14:35.618 activity going out in our institution.

NOTE Confidence: 0.70260257

00:14:35.620 --> 00:14:38.338 Next slide, please.

NOTE Confidence: 0.70260257

00:14:38.340 --> 00:14:40.965 I'd like to say a few words

NOTE Confidence: 0.70260257

00:14:40.965 --> 00:14:42.800 about the Hepatology faculty.

NOTE Confidence: 0.70260257

00:14:42.800 --> 00:14:44.290 That is, the faculty that

NOTE Confidence: 0.70260257

00:14:44.290 --> 00:14:45.780 are engaged in clinical care.

NOTE Confidence: 0.70260257

00:14:45.780 --> 00:14:48.100 We currently have 24 hepatologists

NOTE Confidence: 0.70260257

00:14:48.100 --> 00:14:49.956 on our full-time faculty,

NOTE Confidence: 0.70260257

00:14:49.960 --> 00:14:53.164 and this includes 50% women and

NOTE Confidence: 0.70260257

00:14:53.164 --> 00:14:54.852 5% underrepresented minorities.

NOTE Confidence: 0.70260257

00:14:54.852 --> 00:14:58.308 We also have four nurse practitioners

NOTE Confidence: 0.70260257

00:14:58.308 --> 00:15:00.656 or advanced practitioners and

NOTE Confidence: 0.70260257

00:15:00.656 --> 00:15:02.339 two adjunct faculty.

NOTE Confidence: 0.70260257

00:15:02.340 --> 00:15:05.280 I'll say a word about them in a few minutes.

NOTE Confidence: 0.70260257

00:15:05.280 --> 00:15:09.040 We currently staff 65 liver clinics per week.

NOTE Confidence: 0.70260257

00:15:09.040 --> 00:15:12.568 In 10 different locations across the state,
NOTE Confidence: 0.70260257

00:15:12.570 --> 00:15:16.525 and we also run the klatskin service,
NOTE Confidence: 0.70260257

00:15:16.530 --> 00:15:18.300 which is a dedicated inpatient liver
NOTE Confidence: 0.70260257

00:15:18.300 --> 00:15:19.988 unit at Yale, New Haven Hospital,
NOTE Confidence: 0.70260257

00:15:19.988 --> 00:15:22.509 and I'll say a bit more about that later.
NOTE Confidence: 0.70260257

00:15:22.510 --> 00:15:23.659 Next slide, please.
NOTE Confidence: 0.860014074210526

00:15:25.880 --> 00:15:28.596 So one thing that I personally find
NOTE Confidence: 0.860014074210526

00:15:28.596 --> 00:15:30.888 particularly impressive is not just how
NOTE Confidence: 0.860014074210526

00:15:30.888 --> 00:15:33.012 many outpatient liver clinics we have,
NOTE Confidence: 0.860014074210526

00:15:33.020 --> 00:15:35.953 but really the variety and the the
NOTE Confidence: 0.860014074210526

00:15:35.953 --> 00:15:38.540 degree of subspecialty of these clinics.
NOTE Confidence: 0.860014074210526

00:15:38.540 --> 00:15:42.761 So this is in order of how many clinics
NOTE Confidence: 0.860014074210526

00:15:42.761 --> 00:15:45.754 per week we have in each of these areas.
NOTE Confidence: 0.860014074210526

00:15:45.760 --> 00:15:48.280 Our fatty liver clinics total
NOTE Confidence: 0.860014074210526

00:15:48.280 --> 00:15:50.296 19 clinics per week.
NOTE Confidence: 0.860014074210526

00:15:50.300 --> 00:15:53.000 I have to say that this was built entirely

NOTE Confidence: 0.860014074210526
00:15:53.000 --> 00:15:55.847 by Doctor Michael five or ten years ago.
NOTE Confidence: 0.860014074210526
00:15:55.850 --> 00:15:59.954 And and he doctor, Doe,
NOTE Confidence: 0.860014074210526
00:15:59.954 --> 00:16:01.878 and Benini and APRN.
NOTE Confidence: 0.860014074210526
00:16:01.880 --> 00:16:05.584 Maureen Kelly are the ones that staff these.
NOTE Confidence: 0.860014074210526
00:16:05.590 --> 00:16:07.792 There are 8 autoimmune and cholestatic
NOTE Confidence: 0.860014074210526
00:16:07.792 --> 00:16:09.610 liver disease clinics per week.
NOTE Confidence: 0.860014074210526
00:16:09.610 --> 00:16:10.674 Doctor Boyer, of course,
NOTE Confidence: 0.860014074210526
00:16:10.674 --> 00:16:12.660 was the person that began this effort.
NOTE Confidence: 0.860014074210526
00:16:12.660 --> 00:16:14.418 But more recently,
NOTE Confidence: 0.860014074210526
00:16:14.418 --> 00:16:16.758 doctors assistant Silvera have joined
NOTE Confidence: 0.860014074210526
00:16:16.758 --> 00:16:19.532 in and and now I I would say see
NOTE Confidence: 0.860014074210526
00:16:19.532 --> 00:16:21.824 the lion share of these patients.
NOTE Confidence: 0.860014074210526
00:16:21.830 --> 00:16:23.370 The liver cancer program is
NOTE Confidence: 0.860014074210526
00:16:23.370 --> 00:16:25.372 something that also has been growing
NOTE Confidence: 0.860014074210526
00:16:25.372 --> 00:16:27.000 tremendously in recent years.
NOTE Confidence: 0.860014074210526

00:16:27.000 --> 00:16:29.045 Was established by Doctor Strozier
NOTE Confidence: 0.860014074210526

00:16:29.045 --> 00:16:31.533 Bosco and now Doctor Jaffe is
NOTE Confidence: 0.860014074210526

00:16:31.533 --> 00:16:33.378 his junior associate and APRN.
NOTE Confidence: 0.860014074210526

00:16:33.380 --> 00:16:35.830 Sylvia Limpet works with them as well
NOTE Confidence: 0.860014074210526

00:16:35.830 --> 00:16:38.180 and they staffed 7 clinics per week.
NOTE Confidence: 0.860014074210526

00:16:38.180 --> 00:16:40.508 Doctor Mistry runs clinics
NOTE Confidence: 0.860014074210526

00:16:40.508 --> 00:16:42.254 and gauche's disease.
NOTE Confidence: 0.860014074210526

00:16:42.260 --> 00:16:45.420 His own personal area of intra of research,
NOTE Confidence: 0.860014074210526

00:16:45.420 --> 00:16:47.880 interest and other inherited liver diseases,
NOTE Confidence: 0.860014074210526

00:16:47.880 --> 00:16:50.554 Dr Lim and one of our appearance.
NOTE Confidence: 0.860014074210526

00:16:50.560 --> 00:16:52.415 Kristen draws Steph 4 viral
NOTE Confidence: 0.860014074210526

00:16:52.415 --> 00:16:53.899 hepatitis clinics per week.
NOTE Confidence: 0.860014074210526

00:16:53.900 --> 00:16:56.335 We also have three clinics
NOTE Confidence: 0.860014074210526

00:16:56.335 --> 00:16:58.283 per week that that.
NOTE Confidence: 0.860014074210526

00:16:58.290 --> 00:17:00.570 Ensure access by patients that are
NOTE Confidence: 0.860014074210526

00:17:00.570 --> 00:17:02.730 uninsured for their liver problems.

NOTE Confidence: 0.860014074210526
00:17:02.730 --> 00:17:05.607 We also have two clinics per week
NOTE Confidence: 0.860014074210526
00:17:05.607 --> 00:17:07.729 for hospital discharge follow UPS.
NOTE Confidence: 0.860014074210526
00:17:07.730 --> 00:17:11.510 We try very hard to see all liver patients
NOTE Confidence: 0.860014074210526
00:17:11.510 --> 00:17:14.506 within a week of hospital discharge.
NOTE Confidence: 0.860014074210526
00:17:14.510 --> 00:17:15.558 Dr Lim,
NOTE Confidence: 0.860014074210526
00:17:15.558 --> 00:17:19.226 who runs a number of clinical trials,
NOTE Confidence: 0.860014074210526
00:17:19.230 --> 00:17:21.075 has a clinical research trial
NOTE Confidence: 0.860014074210526
00:17:21.075 --> 00:17:23.330 clinic that meets twice a week.
NOTE Confidence: 0.860014074210526
00:17:23.330 --> 00:17:25.442 Doctor Schilsky is a long standing
NOTE Confidence: 0.860014074210526
00:17:25.442 --> 00:17:27.329 interest in Wilson's disease and.
NOTE Confidence: 0.860014074210526
00:17:27.329 --> 00:17:30.080 Has a clinic for that as well.
NOTE Confidence: 0.860014074210526
00:17:30.080 --> 00:17:32.204 Our liver transplant program
NOTE Confidence: 0.860014074210526
00:17:32.204 --> 00:17:34.859 evaluates new patients every week
NOTE Confidence: 0.860014074210526
00:17:34.859 --> 00:17:38.452 and we have two new clinics that I
NOTE Confidence: 0.860014074210526
00:17:38.452 --> 00:17:40.700 think are particularly noteworthy.
NOTE Confidence: 0.860014074210526

00:17:40.700 --> 00:17:43.400 One is staffed by Lamia Hock,
NOTE Confidence: 0.860014074210526

00:17:43.400 --> 00:17:45.758 one of our newest faculty members,
NOTE Confidence: 0.860014074210526

00:17:45.760 --> 00:17:47.626 and it's on alcohol and addiction
NOTE Confidence: 0.860014074210526

00:17:47.626 --> 00:17:48.559 in liver disease,
NOTE Confidence: 0.860014074210526

00:17:48.560 --> 00:17:50.124 and she's double boarded
NOTE Confidence: 0.860014074210526

00:17:50.124 --> 00:17:51.297 in addiction medicine,
NOTE Confidence: 0.860014074210526

00:17:51.300 --> 00:17:54.674 and in GI and transplant as well.
NOTE Confidence: 0.860014074210526

00:17:54.680 --> 00:17:57.260 In fact, and I think there is a few clinics.
NOTE Confidence: 0.860014074210526

00:17:57.260 --> 00:17:58.390 Like this around the country,
NOTE Confidence: 0.860014074210526

00:17:58.390 --> 00:18:00.290 but not not a lot,
NOTE Confidence: 0.860014074210526

00:18:00.290 --> 00:18:03.188 and it's a very important resource.
NOTE Confidence: 0.860014074210526

00:18:03.190 --> 00:18:04.166 Similarly,
NOTE Confidence: 0.860014074210526

00:18:04.166 --> 00:18:08.876 Dr Villa Renho Staffs clinic that
NOTE Confidence: 0.860014074210526

00:18:08.876 --> 00:18:10.891 she created an undiagnosed liver
NOTE Confidence: 0.860014074210526

00:18:10.891 --> 00:18:13.225 diseases and this is a largely
NOTE Confidence: 0.860014074210526

00:18:13.225 --> 00:18:15.331 an effort given her expertise in

NOTE Confidence: 0.860014074210526
00:18:15.331 --> 00:18:17.210 genetics to understand the genetic
NOTE Confidence: 0.860014074210526
00:18:17.210 --> 00:18:19.751 basis for a number of diseases and
NOTE Confidence: 0.860014074210526
00:18:19.751 --> 00:18:21.506 patients that people haven't been
NOTE Confidence: 0.860014074210526
00:18:21.506 --> 00:18:23.670 able to figure out beforehand.
NOTE Confidence: 0.860014074210526
00:18:23.670 --> 00:18:25.840 And then there's a number of general
NOTE Confidence: 0.860014074210526
00:18:25.840 --> 00:18:27.510 hepatology clinics and pre and post.
NOTE Confidence: 0.860014074210526
00:18:27.510 --> 00:18:29.090 Let's follow up clinics that
NOTE Confidence: 0.860014074210526
00:18:29.090 --> 00:18:31.060 we have each week as well.
NOTE Confidence: 0.860014074210526
00:18:31.060 --> 00:18:32.832 Next slide,
NOTE Confidence: 0.860014074210526
00:18:32.832 --> 00:18:33.718 please.
NOTE Confidence: 0.860014074210526
00:18:33.720 --> 00:18:34.122 Oh,
NOTE Confidence: 0.860014074210526
00:18:34.122 --> 00:18:36.534 so the next four slides are
NOTE Confidence: 0.860014074210526
00:18:36.534 --> 00:18:39.573 just going to show you who the
NOTE Confidence: 0.860014074210526
00:18:39.573 --> 00:18:41.753 faculty are and I'll leave.
NOTE Confidence: 0.860014074210526
00:18:41.760 --> 00:18:43.840 Each of these up here for a moment
NOTE Confidence: 0.860014074210526

00:18:43.840 --> 00:18:45.947 I guess I'll just point out a few
NOTE Confidence: 0.860014074210526

00:18:45.947 --> 00:18:48.140 things up so if we can go back one
NOTE Confidence: 0.825014043529412

00:18:48.140 --> 00:18:50.796 not to exclude anybody but Doctor Assise who
NOTE Confidence: 0.825014043529412

00:18:50.796 --> 00:18:53.636 you'll hear from at the end of the day runs
NOTE Confidence: 0.825014043529412

00:18:53.636 --> 00:18:56.516 the digestive Disease Fellowship program.
NOTE Confidence: 0.825014043529412

00:18:56.520 --> 00:19:00.377 Doctor dranoff. Was trained here,
NOTE Confidence: 0.825014043529412

00:19:00.377 --> 00:19:03.180 then was the section chief in Arkansas for
NOTE Confidence: 0.825014043529412

00:19:03.180 --> 00:19:05.524 a number of years and we just recruited
NOTE Confidence: 0.825014043529412

00:19:05.524 --> 00:19:08.045 him back to our faculty. Dr Garcia tsao.
NOTE Confidence: 0.825014043529412

00:19:08.045 --> 00:19:10.501 I think it's speaking after me and she's
NOTE Confidence: 0.825014043529412

00:19:10.501 --> 00:19:12.805 the chief of GI and liver at the VA.
NOTE Confidence: 0.825014043529412

00:19:12.810 --> 00:19:15.561 Doctor Gupta is one of our newest
NOTE Confidence: 0.825014043529412

00:19:15.561 --> 00:19:17.269 recruits who's engaged largely
NOTE Confidence: 0.825014043529412

00:19:17.269 --> 00:19:19.069 in basic liver research.
NOTE Confidence: 0.825014043529412

00:19:19.070 --> 00:19:22.049 Next slide, please.
NOTE Confidence: 0.825014043529412

00:19:22.050 --> 00:19:25.098 Doctor Hulk is the one that I mentioned

NOTE Confidence: 0.825014043529412
00:19:25.098 --> 00:19:28.566 who runs the alcohol and Addiction clinic.
NOTE Confidence: 0.825014043529412
00:19:28.570 --> 00:19:32.050 Doctor Jacob is the director of
NOTE Confidence: 0.825014043529412
00:19:32.050 --> 00:19:34.258 our inpatient klatskin service.
NOTE Confidence: 0.825014043529412
00:19:34.258 --> 00:19:37.066 Doctor Lim runs our viral hepatitis
NOTE Confidence: 0.825014043529412
00:19:37.066 --> 00:19:39.956 program and is actually the vice
NOTE Confidence: 0.825014043529412
00:19:39.956 --> 00:19:42.296 chair of clinical liver activities
NOTE Confidence: 0.825014043529412
00:19:42.296 --> 00:19:45.059 in our section and Doctor Mahal
NOTE Confidence: 0.825014043529412
00:19:45.059 --> 00:19:47.675 I mentioned is the person who.
NOTE Confidence: 0.825014043529412
00:19:47.680 --> 00:19:49.500 Formed our fatty liver program,
NOTE Confidence: 0.825014043529412
00:19:49.500 --> 00:19:52.920 which now is really taking off in a huge way.
NOTE Confidence: 0.825014043529412
00:19:52.920 --> 00:19:55.428 Next slide please.
NOTE Confidence: 0.825014043529412
00:19:55.430 --> 00:19:56.435 I mentioned doctors,
NOTE Confidence: 0.825014043529412
00:19:56.435 --> 00:19:57.440 mystery and schilsky.
NOTE Confidence: 0.825014043529412
00:19:57.440 --> 00:19:59.232 This is Doctor Silvera also on the
NOTE Confidence: 0.825014043529412
00:19:59.232 --> 00:20:01.457 top row who would doctor Assise and
NOTE Confidence: 0.825014043529412

00:20:01.457 --> 00:20:03.207 Doctor Boyer runs our cholestatic

NOTE Confidence: 0.825014043529412

00:20:03.207 --> 00:20:05.332 liver program Doctor Strozewski.

NOTE Confidence: 0.825014043529412

00:20:05.332 --> 00:20:08.637 I think I already mentioned.

NOTE Confidence: 0.825014043529412

00:20:08.640 --> 00:20:12.007 Is the Co director of the of

NOTE Confidence: 0.825014043529412

00:20:12.007 --> 00:20:14.828 the Liver Center and also runs

NOTE Confidence: 0.825014043529412

00:20:14.828 --> 00:20:16.460 our liver cancer program.

NOTE Confidence: 0.825014043529412

00:20:16.460 --> 00:20:18.678 Doctor Teddy runs the liver cancer

NOTE Confidence: 0.825014043529412

00:20:18.678 --> 00:20:21.306 program at the VA and Doctor

NOTE Confidence: 0.825014043529412

00:20:21.306 --> 00:20:23.653 Vilarinho I mentioned is the person

NOTE Confidence: 0.825014043529412

00:20:23.653 --> 00:20:25.625 who established the undiagnosed

NOTE Confidence: 0.825014043529412

00:20:25.625 --> 00:20:29.880 liver Disease Clinic and next slide.

NOTE Confidence: 0.825014043529412

00:20:29.880 --> 00:20:33.730 So the four women on top are

NOTE Confidence: 0.825014043529412

00:20:33.730 --> 00:20:36.530 the the APRN's in our section.

NOTE Confidence: 0.825014043529412

00:20:36.530 --> 00:20:39.080 Marianne McDonough is a PRN who

NOTE Confidence: 0.825014043529412

00:20:39.080 --> 00:20:40.988 works in dedicated fashion on the

NOTE Confidence: 0.825014043529412

00:20:40.988 --> 00:20:42.260 Klatskin inpatient liver service.

NOTE Confidence: 0.825014043529412
00:20:42.260 --> 00:20:43.940 Doctor Gross works.
NOTE Confidence: 0.825014043529412
00:20:43.940 --> 00:20:46.368 Christine Draz works largely with
NOTE Confidence: 0.825014043529412
00:20:46.368 --> 00:20:48.612 Joe Lim and our hepatitis program
NOTE Confidence: 0.825014043529412
00:20:48.612 --> 00:20:50.720 and some general hepatology.
NOTE Confidence: 0.825014043529412
00:20:50.720 --> 00:20:53.065 Sylvie Olympic splits her time
NOTE Confidence: 0.825014043529412
00:20:53.065 --> 00:20:55.410 between the liver cancer program
NOTE Confidence: 0.825014043529412
00:20:55.490 --> 00:20:58.227 and also working with me at the
NOTE Confidence: 0.825014043529412
00:20:58.227 --> 00:21:00.056 Bridgeport Liver Clinic that serves.
NOTE Confidence: 0.825014043529412
00:21:00.056 --> 00:21:01.851 From under and uninsured patients
NOTE Confidence: 0.825014043529412
00:21:01.851 --> 00:21:03.010 and then a moron,
NOTE Confidence: 0.825014043529412
00:21:03.010 --> 00:21:05.512 Kelly works with Doctor Mahal and
NOTE Confidence: 0.825014043529412
00:21:05.512 --> 00:21:08.370 others in the fatty liver program.
NOTE Confidence: 0.825014043529412
00:21:08.370 --> 00:21:10.260 Doctors Hoffman and Caldwell down at
NOTE Confidence: 0.825014043529412
00:21:10.260 --> 00:21:12.345 the bottom are both adjunct faculty
NOTE Confidence: 0.825014043529412
00:21:12.345 --> 00:21:14.625 that work with her transplant program.
NOTE Confidence: 0.825014043529412

00:21:14.630 --> 00:21:16.898 The next slide please.
NOTE Confidence: 0.825014043529412

00:21:16.900 --> 00:21:17.277 Finally,
NOTE Confidence: 0.825014043529412

00:21:17.277 --> 00:21:20.293 I'd like to say a few words about
NOTE Confidence: 0.825014043529412

00:21:20.293 --> 00:21:22.916 education and training in liver at Yale.
NOTE Confidence: 0.825014043529412

00:21:22.920 --> 00:21:23.580 Next slide,
NOTE Confidence: 0.825014043529412

00:21:23.580 --> 00:21:23.910 please.
NOTE Confidence: 0.788931335714286

00:21:26.000 --> 00:21:29.458 So I I'd like to focus really
NOTE Confidence: 0.788931335714286

00:21:29.460 --> 00:21:31.220 in this slide on postdoctoral
NOTE Confidence: 0.788931335714286

00:21:31.220 --> 00:21:32.980 liver research training at Yale.
NOTE Confidence: 0.788931335714286

00:21:32.980 --> 00:21:35.900 Dr Boyer mentioned that we
NOTE Confidence: 0.788931335714286

00:21:35.900 --> 00:21:38.820 have a current training grant.
NOTE Confidence: 0.788931335714286

00:21:38.820 --> 00:21:41.817 Here and it's one of only two N IDK
NOTE Confidence: 0.788931335714286

00:21:41.817 --> 00:21:43.976 sponsored postdoctoral training grants
NOTE Confidence: 0.788931335714286

00:21:43.976 --> 00:21:46.896 that are dedicated specifically and
NOTE Confidence: 0.788931335714286

00:21:46.896 --> 00:21:49.920 exclusively to liver research training.
NOTE Confidence: 0.788931335714286

00:21:49.920 --> 00:21:51.858 It's now in its 43rd year.

NOTE Confidence: 0.788931335714286
00:21:51.860 --> 00:21:54.037 A doctor Boyer was the person who
NOTE Confidence: 0.788931335714286
00:21:54.037 --> 00:21:55.256 initially obtained this grant
NOTE Confidence: 0.788931335714286
00:21:55.256 --> 00:21:56.873 and was a Pi for many years.
NOTE Confidence: 0.788931335714286
00:21:56.880 --> 00:21:58.630 Doctor Anderson took it over
NOTE Confidence: 0.788931335714286
00:21:58.630 --> 00:22:00.380 while he was section chief,
NOTE Confidence: 0.788931335714286
00:22:00.380 --> 00:22:02.414 and then I've had the honor
NOTE Confidence: 0.788931335714286
00:22:02.414 --> 00:22:04.975 of of being in charge of this
NOTE Confidence: 0.788931335714286
00:22:04.975 --> 00:22:07.579 during the past 20 years or so.
NOTE Confidence: 0.788931335714286
00:22:07.580 --> 00:22:08.328 This this.
NOTE Confidence: 0.788931335714286
00:22:08.328 --> 00:22:10.198 Training Grant has been used
NOTE Confidence: 0.788931335714286
00:22:10.198 --> 00:22:12.326 to train nearly 80 fellows in
NOTE Confidence: 0.788931335714286
00:22:12.326 --> 00:22:14.186 the time that we've had it.
NOTE Confidence: 0.788931335714286
00:22:14.190 --> 00:22:16.430 Most of them have gone on to
NOTE Confidence: 0.788931335714286
00:22:16.430 --> 00:22:17.390 full-time academic careers,
NOTE Confidence: 0.788931335714286
00:22:17.390 --> 00:22:19.418 including three of whom have gone
NOTE Confidence: 0.788931335714286

00:22:19.418 --> 00:22:21.250 on to become department chairs,
NOTE Confidence: 0.788931335714286

00:22:21.250 --> 00:22:23.210 ten of whom have gone on to become
NOTE Confidence: 0.788931335714286

00:22:23.210 --> 00:22:24.656 section chiefs or other program
NOTE Confidence: 0.788931335714286

00:22:24.656 --> 00:22:26.456 leaders and 10 individuals on this
NOTE Confidence: 0.788931335714286

00:22:26.456 --> 00:22:28.033 training grant are people that
NOTE Confidence: 0.788931335714286

00:22:28.033 --> 00:22:29.863 currently are on our full-time faculty,
NOTE Confidence: 0.788931335714286

00:22:29.870 --> 00:22:32.376 so I think it's been quite
NOTE Confidence: 0.788931335714286

00:22:32.376 --> 00:22:34.480 successful in that regard.
NOTE Confidence: 0.788931335714286

00:22:34.480 --> 00:22:35.688 But actually,
NOTE Confidence: 0.788931335714286

00:22:35.688 --> 00:22:37.500 perhaps more importantly,
NOTE Confidence: 0.788931335714286

00:22:37.500 --> 00:22:40.909 over 250 other postdoctoral fellows have come
NOTE Confidence: 0.788931335714286

00:22:40.909 --> 00:22:44.280 to our institution to train liver research,
NOTE Confidence: 0.788931335714286

00:22:44.280 --> 00:22:46.995 and they've come from over
NOTE Confidence: 0.788931335714286

00:22:46.995 --> 00:22:48.624 20 other countries.
NOTE Confidence: 0.788931335714286

00:22:48.630 --> 00:22:51.123 And these non T 32 trainees also have gone
NOTE Confidence: 0.788931335714286

00:22:51.123 --> 00:22:54.048 on to become quite influential investigators,

NOTE Confidence: 0.788931335714286
00:22:54.050 --> 00:22:55.010 including professors,
NOTE Confidence: 0.788931335714286
00:22:55.010 --> 00:22:55.970 section Chiefs,
NOTE Confidence: 0.788931335714286
00:22:55.970 --> 00:22:57.890 Department chairs and Deans.
NOTE Confidence: 0.788931335714286
00:22:57.890 --> 00:23:00.578 And you'll hear from a group of them
NOTE Confidence: 0.788931335714286
00:23:00.578 --> 00:23:03.289 during the panel discussion on the impact
NOTE Confidence: 0.788931335714286
00:23:03.289 --> 00:23:06.189 of Yale around the world later today.
NOTE Confidence: 0.788931335714286
00:23:06.190 --> 00:23:08.929 Next slide, please.
NOTE Confidence: 0.788931335714286
00:23:08.930 --> 00:23:11.310 Now I'd like to say a few more words about
NOTE Confidence: 0.788931335714286
00:23:11.370 --> 00:23:13.806 the Klatzkin liver service that the doctor,
NOTE Confidence: 0.788931335714286
00:23:13.810 --> 00:23:15.567 actually the Dean and then Doctor Boyer.
NOTE Confidence: 0.788931335714286
00:23:15.570 --> 00:23:16.770 And now I have brought up.
NOTE Confidence: 0.788931335714286
00:23:16.770 --> 00:23:17.430 It's named as,
NOTE Confidence: 0.788931335714286
00:23:17.430 --> 00:23:17.870 you know,
NOTE Confidence: 0.788931335714286
00:23:17.870 --> 00:23:19.960 after Gerald Klatskin who founded
NOTE Confidence: 0.788931335714286
00:23:19.960 --> 00:23:22.420 our Liver unit 75 years ago.
NOTE Confidence: 0.788931335714286

00:23:22.420 --> 00:23:24.245 It's reserved for patients who
NOTE Confidence: 0.788931335714286

00:23:24.245 --> 00:23:26.070 are admitted to the hospital
NOTE Confidence: 0.788931335714286

00:23:26.140 --> 00:23:28.000 primarily for a liver problem,
NOTE Confidence: 0.788931335714286

00:23:28.000 --> 00:23:29.500 which often, but not always,
NOTE Confidence: 0.788931335714286

00:23:29.500 --> 00:23:31.957 is complications of end stage liver disease.
NOTE Confidence: 0.788931335714286

00:23:31.960 --> 00:23:34.074 But people also can be admitted to
NOTE Confidence: 0.788931335714286

00:23:34.074 --> 00:23:36.199 that service with acute liver problems
NOTE Confidence: 0.788931335714286

00:23:36.200 --> 00:23:38.756 in the setting of either preexisting
NOTE Confidence: 0.788931335714286

00:23:38.756 --> 00:23:41.100 or no preexisting liver disease.
NOTE Confidence: 0.788931335714286

00:23:41.100 --> 00:23:44.169 It's a dedicated.
NOTE Confidence: 0.788931335714286

00:23:44.170 --> 00:23:47.290 Unit localized to 9 W and
NOTE Confidence: 0.788931335714286

00:23:47.290 --> 00:23:48.850 Yona Haven Hospital.
NOTE Confidence: 0.788931335714286

00:23:48.850 --> 00:23:50.534 It's alongside the transplant
NOTE Confidence: 0.788931335714286

00:23:50.534 --> 00:23:52.639 service and it's a conveniently
NOTE Confidence: 0.788931335714286

00:23:52.639 --> 00:23:54.487 located adjacent that is just
NOTE Confidence: 0.788931335714286

00:23:54.487 --> 00:23:57.598 across the bridge to the Miku.

NOTE Confidence: 0.788931335714286
00:23:57.600 --> 00:23:59.108 It's staffed by Hepatologist
NOTE Confidence: 0.788931335714286
00:23:59.108 --> 00:24:00.239 from our faculty,
NOTE Confidence: 0.788931335714286
00:24:00.240 --> 00:24:02.976 plus a dedicated apparen Miss McDonough,
NOTE Confidence: 0.788931335714286
00:24:02.980 --> 00:24:05.302 who I mentioned a GI Fellow
NOTE Confidence: 0.788931335714286
00:24:05.302 --> 00:24:06.463 3 medical residents,
NOTE Confidence: 0.788931335714286
00:24:06.470 --> 00:24:08.584 one of whom rotates here from our
NOTE Confidence: 0.788931335714286
00:24:08.584 --> 00:24:10.140 affiliated hospital in Bridgeport,
NOTE Confidence: 0.788931335714286
00:24:10.140 --> 00:24:12.438 2 interns and two medical students,
NOTE Confidence: 0.788931335714286
00:24:12.440 --> 00:24:15.146 and I would say there's really
NOTE Confidence: 0.788931335714286
00:24:15.146 --> 00:24:17.978 intensive teaching on this unit of and,
NOTE Confidence: 0.788931335714286
00:24:17.980 --> 00:24:19.912 and the patients tend to be
NOTE Confidence: 0.788931335714286
00:24:19.912 --> 00:24:21.656 quite ill and either Despite
NOTE Confidence: 0.788931335714286
00:24:21.656 --> 00:24:23.960 that or perhaps because of that,
NOTE Confidence: 0.788931335714286
00:24:23.960 --> 00:24:26.032 it's consistently ranked with
NOTE Confidence: 0.788931335714286
00:24:26.032 --> 00:24:28.622 one of the two most.
NOTE Confidence: 0.788931335714286

00:24:28.630 --> 00:24:30.334 One of the two favorite rotations
NOTE Confidence: 0.788931335714286

00:24:30.334 --> 00:24:31.840 among the Yale House staff,
NOTE Confidence: 0.788931335714286

00:24:31.840 --> 00:24:32.540 and interestingly,
NOTE Confidence: 0.788931335714286

00:24:32.540 --> 00:24:34.640 it's the most highly ranked rotation
NOTE Confidence: 0.788931335714286

00:24:34.640 --> 00:24:36.530 among the Bridgeport residents,
NOTE Confidence: 0.788931335714286

00:24:36.530 --> 00:24:37.905 even though it's a rotation
NOTE Confidence: 0.788931335714286

00:24:37.905 --> 00:24:39.810 that's not even at their hospital,
NOTE Confidence: 0.871015208

00:24:39.810 --> 00:24:42.306 and so I think it's been
NOTE Confidence: 0.871015208

00:24:42.306 --> 00:24:43.970 quite a successful service,
NOTE Confidence: 0.871015208

00:24:43.970 --> 00:24:47.198 both in terms of patient care
NOTE Confidence: 0.871015208

00:24:47.198 --> 00:24:49.402 and training of residents,
NOTE Confidence: 0.871015208

00:24:49.402 --> 00:24:51.506 medical students, residents, and fellows.
NOTE Confidence: 0.871015208

00:24:51.506 --> 00:24:52.994 In fact, residents frequently
NOTE Confidence: 0.871015208

00:24:52.994 --> 00:24:55.466 comment on how they have always
NOTE Confidence: 0.871015208

00:24:55.466 --> 00:24:57.460 been terrified of liver patients.
NOTE Confidence: 0.871015208

00:24:57.460 --> 00:24:59.056 Until they rotate on the classical

NOTE Confidence: 0.871015208

00:24:59.056 --> 00:25:00.911 service and then they feel quite

NOTE Confidence: 0.871015208

00:25:00.911 --> 00:25:02.399 comfortable managing these patients.

NOTE Confidence: 0.871015208

00:25:02.400 --> 00:25:04.800 Next slide please.

NOTE Confidence: 0.871015208

00:25:04.800 --> 00:25:06.360 So there's some recurring educational

NOTE Confidence: 0.871015208

00:25:06.360 --> 00:25:07.920 events to mention as well.

NOTE Confidence: 0.871015208

00:25:07.920 --> 00:25:10.030 We have a monthly research

NOTE Confidence: 0.871015208

00:25:10.030 --> 00:25:11.718 liver center research seminar.

NOTE Confidence: 0.871015208

00:25:11.720 --> 00:25:14.534 We have an annual klatskin lecture now

NOTE Confidence: 0.871015208

00:25:14.534 --> 00:25:16.901 to become rededicated as the Klatskin

NOTE Confidence: 0.871015208

00:25:16.901 --> 00:25:19.435 Boyer Lecture that's in its 35th year.

NOTE Confidence: 0.871015208

00:25:19.440 --> 00:25:21.594 Joe Lim hosts an annual liver

NOTE Confidence: 0.871015208

00:25:21.594 --> 00:25:23.880 update now in its 12th year,

NOTE Confidence: 0.871015208

00:25:23.880 --> 00:25:26.065 and it routinely attracts 100

NOTE Confidence: 0.871015208

00:25:26.065 --> 00:25:27.813 participants and something that

NOTE Confidence: 0.871015208

00:25:27.813 --> 00:25:30.412 we are instituting and this got

NOTE Confidence: 0.871015208

00:25:30.412 --> 00:25:32.497 delayed because of the pandemic.

NOTE Confidence: 0.871015208

00:25:32.500 --> 00:25:33.520 But we're going to start it.

NOTE Confidence: 0.871015208

00:25:33.520 --> 00:25:35.272 Now is a what we're calling

NOTE Confidence: 0.871015208

00:25:35.272 --> 00:25:36.440 a reverse mini sabbatical.

NOTE Confidence: 0.871015208

00:25:36.440 --> 00:25:38.648 Program and it will be to

NOTE Confidence: 0.871015208

00:25:38.648 --> 00:25:40.120 attract innovative or established

NOTE Confidence: 0.871015208

00:25:40.191 --> 00:25:41.663 investigators for extended visits

NOTE Confidence: 0.871015208

00:25:41.663 --> 00:25:44.360 to Yale in order to share their

NOTE Confidence: 0.871015208

00:25:44.360 --> 00:25:46.450 expertise and to cultivate new

NOTE Confidence: 0.871015208

00:25:46.450 --> 00:25:48.590 collaborations with folks here at Yale.

NOTE Confidence: 0.91456372

00:25:51.170 --> 00:25:55.210 Next slide, please. So to summarize,

NOTE Confidence: 0.91456372

00:25:55.210 --> 00:25:58.648 I would say what is Yale liver in the

NOTE Confidence: 0.91456372

00:25:58.648 --> 00:26:00.930 new Millennium in terms of research,

NOTE Confidence: 0.91456372

00:26:00.930 --> 00:26:03.594 I hope I've shown you that we have

NOTE Confidence: 0.91456372

00:26:03.594 --> 00:26:05.566 investigators from across the university

NOTE Confidence: 0.91456372

00:26:05.566 --> 00:26:08.050 involved in liver research in an

NOTE Confidence: 0.91456372

00:26:08.050 --> 00:26:09.965 environment that's highly collaborative

NOTE Confidence: 0.91456372

00:26:09.965 --> 00:26:12.827 and provides liver specific core facilities

NOTE Confidence: 0.91456372

00:26:12.827 --> 00:26:15.094 that facilitate ongoing high impact

NOTE Confidence: 0.91456372

00:26:15.094 --> 00:26:17.770 discoveries in terms of clinical practice.

NOTE Confidence: 0.91456372

00:26:17.770 --> 00:26:19.690 We have hepatologists and other

NOTE Confidence: 0.91456372

00:26:19.690 --> 00:26:21.610 types of clinicians providing highly

NOTE Confidence: 0.91456372

00:26:21.671 --> 00:26:23.820 specialized levels of care to a large.

NOTE Confidence: 0.91456372

00:26:23.820 --> 00:26:26.208 Volume of inpatients and outpatients across

NOTE Confidence: 0.91456372

00:26:26.208 --> 00:26:28.592 the entire spectrum of liver diseases

NOTE Confidence: 0.91456372

00:26:28.592 --> 00:26:31.126 and in terms of education and training.

NOTE Confidence: 0.91456372

00:26:31.130 --> 00:26:33.866 We've been fortunate to train literally

NOTE Confidence: 0.91456372

00:26:33.866 --> 00:26:36.038 hundreds of postdoctoral fellows in

NOTE Confidence: 0.91456372

00:26:36.038 --> 00:26:38.126 liver research here over the years,

NOTE Confidence: 0.91456372

00:26:38.130 --> 00:26:40.506 and they in turn have gone on to

NOTE Confidence: 0.91456372

00:26:40.506 --> 00:26:41.913 become established investigators and

NOTE Confidence: 0.91456372

00:26:41.913 --> 00:26:44.151 to train others and liver research

NOTE Confidence: 0.91456372

00:26:44.151 --> 00:26:46.187 both across the US and worldwide.

NOTE Confidence: 0.91456372

00:26:46.190 --> 00:26:47.828 So thank you for your attention,

NOTE Confidence: 0.91456372

00:26:47.830 --> 00:26:49.085 and if there's any questions

NOTE Confidence: 0.91456372

00:26:49.085 --> 00:26:51.040 I'd be happy to to answer them.

NOTE Confidence: 0.844751291666667

00:26:57.300 --> 00:27:00.426 Michael, thanks very much for very.

NOTE Confidence: 0.844751291666667

00:27:00.430 --> 00:27:03.195 Extensive summary and and

NOTE Confidence: 0.844751291666667

00:27:03.195 --> 00:27:05.085 it's really been a very very

NOTE Confidence: 0.844751291666667

00:27:05.085 --> 00:27:06.719 successful liver Center for sure.

NOTE Confidence: 0.844751291666667

00:27:06.720 --> 00:27:08.025 Congratulations to you and all

NOTE Confidence: 0.844751291666667

00:27:08.025 --> 00:27:09.510 the people who contributed to it.

NOTE Confidence: 0.97560603

00:27:11.860 --> 00:27:14.930 Thank you. You you mentioned as

NOTE Confidence: 0.97560603

00:27:14.930 --> 00:27:16.470 we're waiting for questions.

NOTE Confidence: 0.97560603

00:27:16.470 --> 00:27:18.002 We you mentioned the

NOTE Confidence: 0.97560603

00:27:18.002 --> 00:27:19.131 undiagnosed liver clinic.

NOTE Confidence: 0.97560603

00:27:19.131 --> 00:27:21.297 It's an unusual clinic and are

NOTE Confidence: 0.97560603

00:27:21.297 --> 00:27:23.537 there any specific cases you you

NOTE Confidence: 0.97560603

00:27:23.537 --> 00:27:25.357 might mention through the group?

NOTE Confidence: 0.743331436363636

00:27:27.360 --> 00:27:30.416 I don't know if I if Sylvia Vilarinho

NOTE Confidence: 0.743331436363636

00:27:30.416 --> 00:27:32.670 is is here, and if so she would

NOTE Confidence: 0.743331436363636

00:27:32.670 --> 00:27:33.880 be the one who addressed that.

NOTE Confidence: 0.743331436363636

00:27:33.880 --> 00:27:36.722 I know that she has published several

NOTE Confidence: 0.743331436363636

00:27:36.722 --> 00:27:39.070 papers reporting new liver diseases,

NOTE Confidence: 0.743331436363636

00:27:39.070 --> 00:27:41.690 and some of these people.

NOTE Confidence: 0.743331436363636

00:27:41.690 --> 00:27:44.994 I'm sure she's drawn from her clinic.

NOTE Confidence: 0.743331436363636

00:27:45.000 --> 00:27:46.836 If she's on, I don't know

NOTE Confidence: 0.743331436363636

00:27:46.836 --> 00:27:48.060 if she's even eight.

NOTE Confidence: 0.743331436363636

00:27:48.060 --> 00:27:50.094 I don't know if we can call on someone

NOTE Confidence: 0.743331436363636

00:27:50.094 --> 00:27:52.178 who's in the audience to to speak or not,

NOTE Confidence: 0.743331436363636

00:27:52.180 --> 00:27:53.204 but I would I,

NOTE Confidence: 0.743331436363636

00:27:53.204 --> 00:27:55.474 I guess I would just refer you to

NOTE Confidence: 0.743331436363636

00:27:55.474 --> 00:27:57.129 to some of those publications.

NOTE Confidence: 0.743331436363636

00:27:57.850 --> 00:27:58.150 Yeah.

NOTE Confidence: 0.8230573369

00:28:01.330 --> 00:28:02.406 Reminder to the audience.

NOTE Confidence: 0.8230573369

00:28:02.406 --> 00:28:04.020 If you want to ask questions,

NOTE Confidence: 0.8230573369

00:28:04.020 --> 00:28:06.476 you can use the Q&A function in zoom.

NOTE Confidence: 0.799568195

00:28:13.950 --> 00:28:16.870 So there's a question,

NOTE Confidence: 0.799568195

00:28:16.870 --> 00:28:18.949 can you share your thoughts on the

NOTE Confidence: 0.799568195

00:28:18.949 --> 00:28:20.570 current challenges and opportunities

NOTE Confidence: 0.799568195

00:28:20.570 --> 00:28:22.530 and what you see or hope for the

NOTE Confidence: 0.799568195

00:28:22.530 --> 00:28:24.070 future direction of the unit will be.

NOTE Confidence: 0.9373923

00:28:27.480 --> 00:28:28.110 Well.

NOTE Confidence: 0.8328506598

00:28:31.610 --> 00:28:33.788 So I guess I would have to break that

NOTE Confidence: 0.8328506598

00:28:33.788 --> 00:28:35.503 down into all three categories that

NOTE Confidence: 0.8328506598

00:28:35.503 --> 00:28:37.996 I that that I used to give this talk

NOTE Confidence: 0.8328506598

00:28:37.996 --> 00:28:40.434 and in terms of research I think it's

NOTE Confidence: 0.8328506598

00:28:40.434 --> 00:28:43.633 going to be quite important to continue

NOTE Confidence: 0.8328506598

00:28:43.633 --> 00:28:47.676 to attract basic investigators and to

NOTE Confidence: 0.8328506598

00:28:47.676 --> 00:28:50.472 facilitate their collaboration with

NOTE Confidence: 0.8328506598

00:28:50.472 --> 00:28:54.018 clinicians and translational investigators.

NOTE Confidence: 0.8328506598

00:28:54.020 --> 00:29:01.810 You know, I think that. It's. I you know,

NOTE Confidence: 0.8328506598

00:29:01.810 --> 00:29:05.460 I think a great example of that is.

NOTE Confidence: 0.8328506598

00:29:05.460 --> 00:29:07.965 Jerry Schulman and Rachel Perry's

NOTE Confidence: 0.8328506598

00:29:07.965 --> 00:29:10.470 observation that that I highlighted

NOTE Confidence: 0.8328506598

00:29:10.545 --> 00:29:13.541 that that there's a non toxic protons

NOTE Confidence: 0.8328506598

00:29:13.541 --> 00:29:15.701 for they've developed that can

NOTE Confidence: 0.8328506598

00:29:15.701 --> 00:29:18.246 essentially help burn up liver fat.

NOTE Confidence: 0.8328506598

00:29:18.246 --> 00:29:21.557 And you know that has the potential.

NOTE Confidence: 0.8328506598

00:29:21.560 --> 00:29:23.390 Through collaborating with all of

NOTE Confidence: 0.8328506598

00:29:23.390 --> 00:29:25.911 the fatty liver clinics and the huge

NOTE Confidence: 0.8328506598

00:29:25.911 --> 00:29:27.783 number of fatty liver patients we

NOTE Confidence: 0.8328506598

00:29:27.783 --> 00:29:30.309 here have here to do some impressive

NOTE Confidence: 0.8328506598

00:29:30.309 --> 00:29:32.284 clinical trials to establish how well
NOTE Confidence: 0.8328506598

00:29:32.284 --> 00:29:33.796 a technique like that would work.
NOTE Confidence: 0.8328506598

00:29:33.800 --> 00:29:35.824 So I think you know, an effort.
NOTE Confidence: 0.8328506598

00:29:35.824 --> 00:29:38.116 To continue to engage and collaborate
NOTE Confidence: 0.8328506598

00:29:38.116 --> 00:29:40.555 with the basic science investigators is
NOTE Confidence: 0.8328506598

00:29:40.555 --> 00:29:43.772 going to be very important to move our
NOTE Confidence: 0.8328506598

00:29:43.772 --> 00:29:45.950 field forward in terms of clinical practice.
NOTE Confidence: 0.8328506598

00:29:45.950 --> 00:29:47.246 It's I mean it.
NOTE Confidence: 0.8328506598

00:29:47.246 --> 00:29:49.190 When I was reviewing the numbers,
NOTE Confidence: 0.8328506598

00:29:49.190 --> 00:29:51.430 it's really amazing the the volume of
NOTE Confidence: 0.8328506598

00:29:51.430 --> 00:29:53.944 liver patients that we see in the number
NOTE Confidence: 0.8328506598

00:29:53.944 --> 00:29:55.830 of liver related procedures that we do,
NOTE Confidence: 0.8328506598

00:29:55.830 --> 00:29:58.982 and I think that it will be important
NOTE Confidence: 0.8328506598

00:29:58.982 --> 00:30:01.850 to continue to make sure there is
NOTE Confidence: 0.8328506598

00:30:01.850 --> 00:30:03.930 communication among our clinicians and
NOTE Confidence: 0.8328506598

00:30:04.004 --> 00:30:06.916 integration of our efforts at every level.

NOTE Confidence: 0.8328506598

00:30:06.920 --> 00:30:07.766 And and then,

NOTE Confidence: 0.8328506598

00:30:07.766 --> 00:30:09.458 in terms of education and training,

NOTE Confidence: 0.8328506598

00:30:09.460 --> 00:30:11.350 I think that it's it will just be a

NOTE Confidence: 0.8328506598

00:30:11.350 --> 00:30:13.386 matter of continuing to make sure that

NOTE Confidence: 0.8328506598

00:30:13.386 --> 00:30:15.133 there's adequate support so that we

NOTE Confidence: 0.8328506598

00:30:15.133 --> 00:30:16.918 can continue to train people in this

NOTE Confidence: 0.8328506598

00:30:16.918 --> 00:30:19.196 really unique and exciting environment.

NOTE Confidence: 0.8328506598

00:30:19.196 --> 00:30:19.700 OK,

NOTE Confidence: 0.846792345

00:30:19.850 --> 00:30:23.558 one last question and quick answer.

NOTE Confidence: 0.846792345

00:30:23.560 --> 00:30:26.094 Over to 75 years of history in

NOTE Confidence: 0.846792345

00:30:26.094 --> 00:30:28.960 Hepatology, ill. What do you think?

NOTE Confidence: 0.846792345

00:30:28.960 --> 00:30:32.070 Is the most important achievement.

NOTE Confidence: 0.914004512

00:30:36.990 --> 00:30:37.910 You know, This is why.

NOTE Confidence: 0.914004512

00:30:37.910 --> 00:30:39.723 This is why I gave three slides

NOTE Confidence: 0.914004512

00:30:39.723 --> 00:30:41.238 instead of one or one line.

NOTE Confidence: 0.914004512

00:30:41.240 --> 00:30:43.400 I mean, the very first slide was every
NOTE Confidence: 0.914004512

00:30:43.400 --> 00:30:45.228 single thing is something people learn
NOTE Confidence: 0.914004512

00:30:45.228 --> 00:30:47.450 in medical school now around the world.
NOTE Confidence: 0.914004512

00:30:47.450 --> 00:30:50.123 I, I don't think I can say there's anyone.
NOTE Confidence: 0.914004512

00:30:50.130 --> 00:30:52.716 Probably the I take that back.
NOTE Confidence: 0.914004512

00:30:52.720 --> 00:30:54.765 The probably the biggest achievement
NOTE Confidence: 0.914004512

00:30:54.765 --> 00:30:56.401 would be helping establish
NOTE Confidence: 0.914004512

00:30:56.401 --> 00:30:58.200 hepatology as an independent field.
NOTE Confidence: 0.7972405383333333

00:30:59.690 --> 00:31:02.355 Alright thanks, thanks very much
NOTE Confidence: 0.7972405383333333

00:31:02.355 --> 00:31:04.819 Michael. Wonderful look thanks.
NOTE Confidence: 0.8530592368

00:31:19.160 --> 00:31:20.654 This session will be ending and
NOTE Confidence: 0.8530592368

00:31:20.654 --> 00:31:22.483 you can access the next session by
NOTE Confidence: 0.8530592368

00:31:22.483 --> 00:31:24.296 clicking the All sessions tab at the
NOTE Confidence: 0.8530592368

00:31:24.352 --> 00:31:26.090 top banner of the screen. Thank you.