

WEBVTT

NOTE duration:"00:18:18"

NOTE recognizability:0.812

NOTE language:en-us

NOTE Confidence: 0.78574623125

00:00:18.920 --> 00:00:21.560 Welcome back to the Yale Liver

NOTE Confidence: 0.78574623125

00:00:21.560 --> 00:00:23.168 Diamond Jubilee. This session

NOTE Confidence: 0.78574623125

00:00:23.168 --> 00:00:24.850 is being recorded. Thank you.

NOTE Confidence: 0.85237334

00:00:29.070 --> 00:00:31.550 Well, welcome to everyone and

NOTE Confidence: 0.85237334

00:00:31.550 --> 00:00:33.510 and our next week is the is

NOTE Confidence: 0.85237334

00:00:33.510 --> 00:00:35.870 going to be Doctor Jay Hufnagel.

NOTE Confidence: 0.85237334

00:00:35.870 --> 00:00:38.775 Dr Hufnagel is director of liver disease

NOTE Confidence: 0.85237334

00:00:38.775 --> 00:00:41.284 research branch at NIDDK and also

NOTE Confidence: 0.85237334

00:00:41.284 --> 00:00:43.786 proud Yale School of Medicine alone

NOTE Confidence: 0.85237334

00:00:43.790 --> 00:00:45.878 and the title of this talk will be

NOTE Confidence: 0.85237334

00:00:45.878 --> 00:00:47.688 priorities and liver disease research.

NOTE Confidence: 0.85237334

00:00:47.690 --> 00:00:51.410 Past present and future and IDK

NOTE Confidence: 0.85237334

00:00:51.410 --> 00:00:53.158 perspective Jay please go ahead.

NOTE Confidence: 0.9220813083333333

00:00:58.830 --> 00:00:59.874 OK, well thank you.
NOTE Confidence: 0.9220813083333333

00:00:59.874 --> 00:01:01.981 I'm sorry I can't be there in person
NOTE Confidence: 0.9220813083333333

00:01:01.981 --> 00:01:05.930 and they have to do this virtually.
NOTE Confidence: 0.9220813083333333

00:01:05.930 --> 00:01:08.360 I'm going to talk about.
NOTE Confidence: 0.9220813083333333

00:01:08.360 --> 00:01:11.608 NIH liver disease funding.
NOTE Confidence: 0.9220813083333333

00:01:11.610 --> 00:01:12.654 The the past,
NOTE Confidence: 0.9220813083333333

00:01:12.654 --> 00:01:14.394 the present and the future.
NOTE Confidence: 0.870603715

00:01:16.890 --> 00:01:21.650 This is the present at the present time.
NOTE Confidence: 0.870603715

00:01:21.650 --> 00:01:24.512 The amount of liver disease research
NOTE Confidence: 0.870603715

00:01:24.512 --> 00:01:28.510 funding at the NIH is \$845 million.
NOTE Confidence: 0.870603715

00:01:28.510 --> 00:01:31.310 It's about 2% of the NIH budget.
NOTE Confidence: 0.870603715

00:01:31.310 --> 00:01:33.425 This slide shows you the
NOTE Confidence: 0.870603715

00:01:33.425 --> 00:01:34.694 breakdown by institute.
NOTE Confidence: 0.870603715

00:01:34.700 --> 00:01:37.857 Of the 26 institutes at the NIH,
NOTE Confidence: 0.870603715

00:01:37.860 --> 00:01:40.401 many of them fund liver disease research
NOTE Confidence: 0.870603715

00:01:40.401 --> 00:01:43.200 in IDK has the largest proportion.

NOTE Confidence: 0.870603715

00:01:43.200 --> 00:01:44.553 It's about 33%.

NOTE Confidence: 0.870603715

00:01:44.553 --> 00:01:47.710 The NCI is also an important contributor,

NOTE Confidence: 0.870603715

00:01:47.710 --> 00:01:50.560 as is NIAID, the allergy and

NOTE Confidence: 0.870603715

00:01:50.560 --> 00:01:51.985 Infectious Disease Institute,

NOTE Confidence: 0.870603715

00:01:51.990 --> 00:01:53.298 and the Alcohol Institute.

NOTE Confidence: 0.89486635

00:01:55.770 --> 00:01:59.558 That's. That's the present.

NOTE Confidence: 0.89486635

00:01:59.560 --> 00:02:02.038 This is a N IDK structure.

NOTE Confidence: 0.89486635

00:02:02.040 --> 00:02:05.322 We have 3 extramural divisions that

NOTE Confidence: 0.89486635

00:02:05.322 --> 00:02:08.250 fund grants in research, diabetes,

NOTE Confidence: 0.89486635

00:02:08.250 --> 00:02:11.910 adjustive disease and nutrition and kidney,

NOTE Confidence: 0.89486635

00:02:11.910 --> 00:02:12.844 urology, hematology.

NOTE Confidence: 0.89486635

00:02:12.844 --> 00:02:15.179 They are similar in size,

NOTE Confidence: 0.89486635

00:02:15.180 --> 00:02:18.190 diabetes, a little bit larger.

NOTE Confidence: 0.89486635

00:02:18.190 --> 00:02:19.914 The liver disease research

NOTE Confidence: 0.89486635

00:02:19.914 --> 00:02:21.638 branches within the digestive

NOTE Confidence: 0.89486635

00:02:21.638 --> 00:02:23.750 disease and nutrition division.
NOTE Confidence: 0.89486635

00:02:23.750 --> 00:02:24.870 In addition,
NOTE Confidence: 0.89486635

00:02:24.870 --> 00:02:27.930 I DK has intramural program that
NOTE Confidence: 0.89486635

00:02:27.930 --> 00:02:31.014 means on campus and in the intramural
NOTE Confidence: 0.89486635

00:02:31.014 --> 00:02:33.102 program is the liver diseases branch.
NOTE Confidence: 0.89486635

00:02:33.110 --> 00:02:35.322 I started there at the NIH in
NOTE Confidence: 0.89486635

00:02:35.322 --> 00:02:36.800 the liver diseases branch.
NOTE Confidence: 0.89486635

00:02:36.800 --> 00:02:39.936 At the time it was the smallest branch.
NOTE Confidence: 0.89486635

00:02:39.940 --> 00:02:40.742 And IDK.
NOTE Confidence: 0.89486635

00:02:40.742 --> 00:02:43.148 It is now the largest branch.
NOTE Confidence: 0.8082946997

00:02:45.180 --> 00:02:48.068 And in 1988 I left the liver disease
NOTE Confidence: 0.8082946997

00:02:48.068 --> 00:02:51.391 branch to become the head of the
NOTE Confidence: 0.8082946997

00:02:51.391 --> 00:02:53.906 digestive disease and nutrition division.
NOTE Confidence: 0.8082946997

00:02:53.910 --> 00:02:55.638 But I've kept my involvement there.
NOTE Confidence: 0.855710932592593

00:02:58.370 --> 00:03:00.938 And this, as a chairman of the director
NOTE Confidence: 0.855710932592593

00:03:00.938 --> 00:03:03.612 of the of the Digestive Disease and

NOTE Confidence: 0.855710932592593
00:03:03.612 --> 00:03:06.152 Nutrition Division I had an Advisory
NOTE Confidence: 0.855710932592593
00:03:06.152 --> 00:03:09.206 Council Advisory Council to the Institute.
NOTE Confidence: 0.855710932592593
00:03:09.210 --> 00:03:13.200 We have 4 senior members experts who.
NOTE Confidence: 0.855710932592593
00:03:13.200 --> 00:03:15.420 Or advisors to in gastroenterology
NOTE Confidence: 0.855710932592593
00:03:15.420 --> 00:03:17.640 Sid Cohen and Jerry Trier,
NOTE Confidence: 0.855710932592593
00:03:17.640 --> 00:03:19.980 one in nutrition, George Pray.
NOTE Confidence: 0.855710932592593
00:03:19.980 --> 00:03:23.100 And this young man, representing liver,
NOTE Confidence: 0.855710932592593
00:03:23.100 --> 00:03:26.362 who I remembered from liver from Gale,
NOTE Confidence: 0.855710932592593
00:03:26.362 --> 00:03:28.784 the first liver biopsy I ever saw,
NOTE Confidence: 0.855710932592593
00:03:28.790 --> 00:03:31.838 was being done by Jim Boyle.
NOTE Confidence: 0.855710932592593
00:03:31.840 --> 00:03:33.280 Also important behind me are
NOTE Confidence: 0.855710932592593
00:03:33.280 --> 00:03:35.648 the staff and I want to show you
NOTE Confidence: 0.855710932592593
00:03:35.648 --> 00:03:37.376 the liver diseases branch at the
NOTE Confidence: 0.855710932592593
00:03:37.376 --> 00:03:39.259 time as this person right here.
NOTE Confidence: 0.855710932592593
00:03:39.260 --> 00:03:39.972 Sarah kauser.
NOTE Confidence: 0.855710932592593

00:03:39.972 --> 00:03:42.820 She took care of all of the liver
NOTE Confidence: 0.855710932592593

00:03:42.899 --> 00:03:45.220 disease research portfolio.
NOTE Confidence: 0.911406685

00:03:47.390 --> 00:03:49.742 So that's where we began many years
NOTE Confidence: 0.911406685

00:03:49.742 --> 00:03:52.250 ago and our. Budget was \$43 million.
NOTE Confidence: 0.911406685

00:03:52.250 --> 00:03:55.839 That was a lot of the time I thought.
NOTE Confidence: 0.796007481428571

00:03:57.860 --> 00:04:00.219 Now I go to the the present.
NOTE Confidence: 0.796007481428571

00:04:00.220 --> 00:04:01.798 Here is the liver disease branch,
NOTE Confidence: 0.796007481428571

00:04:01.800 --> 00:04:04.880 but the present and our.
NOTE Confidence: 0.796007481428571

00:04:04.880 --> 00:04:06.028 Amount of money has.
NOTE Confidence: 0.66953465

00:04:08.160 --> 00:04:13.190 Increased sixfold to 200 about 250.
NOTE Confidence: 0.66953465

00:04:13.190 --> 00:04:15.780 And our staff has increased about 6
NOTE Confidence: 0.66953465

00:04:15.780 --> 00:04:19.525 fold as well. We now have six other
NOTE Confidence: 0.66953465

00:04:19.525 --> 00:04:23.080 members of the branch of Bonnie.
NOTE Confidence: 0.66953465

00:04:23.080 --> 00:04:25.600 Those views who I hope you know she's
NOTE Confidence: 0.66953465

00:04:25.600 --> 00:04:27.779 in charge of our basic programs.
NOTE Confidence: 0.66953465

00:04:27.780 --> 00:04:31.095 Edward do and April Sherker 2

NOTE Confidence: 0.66953465

00:04:31.095 --> 00:04:33.470 transplant Hepatologist who run at

NOTE Confidence: 0.66953465

00:04:33.470 --> 00:04:37.540 some of our categorical branches.

NOTE Confidence: 0.66953465

00:04:37.540 --> 00:04:40.348 This is Jose Serrano is an

NOTE Confidence: 0.66953465

00:04:40.348 --> 00:04:41.752 MD PhD gastroenterologist.

NOTE Confidence: 0.66953465

00:04:41.760 --> 00:04:43.596 He runs the pancreas program and

NOTE Confidence: 0.66953465

00:04:43.596 --> 00:04:45.800 part of the liver disease branch,

NOTE Confidence: 0.66953465

00:04:45.800 --> 00:04:48.386 and here are two new faces.

NOTE Confidence: 0.66953465

00:04:48.390 --> 00:04:49.746 Actually, they're so new that I

NOTE Confidence: 0.66953465

00:04:49.746 --> 00:04:51.130 haven't met with them in person.

NOTE Confidence: 0.66953465

00:04:51.130 --> 00:04:53.554 We've only talked on zoom about

NOTE Confidence: 0.66953465

00:04:53.554 --> 00:04:56.129 weekly about one at least once.

NOTE Confidence: 0.66953465

00:04:56.130 --> 00:04:58.210 Weekly. One is Katrina Lowe.

NOTE Confidence: 0.66953465

00:04:58.210 --> 00:05:01.550 She is a pediatric gastroenterologist.

NOTE Confidence: 0.66953465

00:05:01.550 --> 00:05:04.646 Hepatologist, her true love is hepatology,

NOTE Confidence: 0.66953465

00:05:04.650 --> 00:05:06.715 and she's taking over some

NOTE Confidence: 0.66953465

00:05:06.715 --> 00:05:08.367 of our pediatric programs,
NOTE Confidence: 0.66953465

00:05:08.370 --> 00:05:12.290 and this is Ludmilla Polanski,
NOTE Confidence: 0.66953465

00:05:12.290 --> 00:05:15.452 who is a PhD geneticist who
NOTE Confidence: 0.66953465

00:05:15.452 --> 00:05:18.480 has joined us from UC San.
NOTE Confidence: 0.66953465

00:05:18.480 --> 00:05:21.768 San Francisco also has done research
NOTE Confidence: 0.66953465

00:05:21.768 --> 00:05:25.060 in the genetics of liberties.
NOTE Confidence: 0.66953465

00:05:25.060 --> 00:05:28.078 These two new people are joined.
NOTE Confidence: 0.66953465

00:05:28.080 --> 00:05:29.352 The division in general,
NOTE Confidence: 0.66953465

00:05:29.352 --> 00:05:31.260 and they have some GI components
NOTE Confidence: 0.66953465

00:05:31.325 --> 00:05:32.780 not shown in this picture.
NOTE Confidence: 0.66953465

00:05:32.780 --> 00:05:35.480 As a as a person who has just joined us,
NOTE Confidence: 0.66953465

00:05:35.480 --> 00:05:38.175 who is an expert on the microbiome.
NOTE Confidence: 0.66953465

00:05:38.180 --> 00:05:40.400 So as the field grows,
NOTE Confidence: 0.66953465

00:05:40.400 --> 00:05:42.242 the staff has grown in the
NOTE Confidence: 0.66953465

00:05:42.242 --> 00:05:43.163 liver disease branch.
NOTE Confidence: 0.7070086311

00:05:45.340 --> 00:05:46.426 Overseas branch actually

NOTE Confidence: 0.7070086311

00:05:46.426 --> 00:05:48.960 was a was added to an IDK.

NOTE Confidence: 0.7070086311

00:05:48.960 --> 00:05:52.180 In 2003 it was created on on the basis of

NOTE Confidence: 0.7070086311

00:05:52.265 --> 00:05:55.215 congressional language to promote liver

NOTE Confidence: 0.7070086311

00:05:55.215 --> 00:05:58.560 disease related research across the NIH.

NOTE Confidence: 0.7070086311

00:05:58.560 --> 00:06:00.849 We were charged to develop an action

NOTE Confidence: 0.7070086311

00:06:00.849 --> 00:06:02.989 plan for liver disease research.

NOTE Confidence: 0.7070086311

00:06:02.990 --> 00:06:06.084 And to manage the portfolio as well

NOTE Confidence: 0.7070086311

00:06:06.084 --> 00:06:08.994 as to represent the NIH broadly

NOTE Confidence: 0.7070086311

00:06:08.994 --> 00:06:10.978 in liver disease issues.

NOTE Confidence: 0.7070086311

00:06:10.980 --> 00:06:12.755 Here's the action plan that

NOTE Confidence: 0.7070086311

00:06:12.755 --> 00:06:14.212 we published in 2004.

NOTE Confidence: 0.7070086311

00:06:14.212 --> 00:06:16.956 Many of you participated in helping out,

NOTE Confidence: 0.7070086311

00:06:16.960 --> 00:06:18.528 including the Michael Nathanson

NOTE Confidence: 0.7070086311

00:06:18.528 --> 00:06:19.704 and John Boyer.

NOTE Confidence: 0.7070086311

00:06:19.710 --> 00:06:22.470 To put this together.

NOTE Confidence: 0.7070086311

00:06:22.470 --> 00:06:26.296 What we did is I I took all the grants funded
NOTE Confidence: 0.7070086311

00:06:26.296 --> 00:06:30.274 by the NIH that were coded as liver related,
NOTE Confidence: 0.7070086311

00:06:30.280 --> 00:06:32.830 not just our our institute,
NOTE Confidence: 0.7070086311

00:06:32.830 --> 00:06:36.322 but all institutes and I put them into piles.
NOTE Confidence: 0.7070086311

00:06:36.330 --> 00:06:39.894 I I started with 12 piles but it expanded
NOTE Confidence: 0.7070086311

00:06:39.894 --> 00:06:43.348 to 16 topic areas which I show here.
NOTE Confidence: 0.7070086311

00:06:43.350 --> 00:06:45.090 Now the first four called basic,
NOTE Confidence: 0.7070086311

00:06:45.090 --> 00:06:47.367 but they're not all of the grants are basic.
NOTE Confidence: 0.7070086311

00:06:47.370 --> 00:06:49.190 Almost all of these grants were basic.
NOTE Confidence: 0.7070086311

00:06:49.190 --> 00:06:51.046 Very few clinical grants.
NOTE Confidence: 0.7070086311

00:06:51.046 --> 00:06:54.062 These, however, are.
NOTE Confidence: 0.7070086311

00:06:54.062 --> 00:06:55.668 Are nonspecific?
NOTE Confidence: 0.7070086311

00:06:55.668 --> 00:06:57.964 I should say they refer to the
NOTE Confidence: 0.7070086311

00:06:57.964 --> 00:07:00.478 liver in general and not to a
NOTE Confidence: 0.7070086311

00:07:00.478 --> 00:07:01.910 specific disease or condition.
NOTE Confidence: 0.7070086311

00:07:01.910 --> 00:07:02.990 Selling molecular biology,

NOTE Confidence: 0.7070086311

00:07:02.990 --> 00:07:03.710 for instance,

NOTE Confidence: 0.7070086311

00:07:03.710 --> 00:07:06.195 is what Mike Nathanson has his grants

NOTE Confidence: 0.7070086311

00:07:06.195 --> 00:07:08.150 in bio Billy Ruben Cholestasis.

NOTE Confidence: 0.7070086311

00:07:08.150 --> 00:07:11.210 Sounds like Jim Boyer, doesn't it?

NOTE Confidence: 0.7070086311

00:07:11.210 --> 00:07:15.150 These were our largest thing.

NOTE Confidence: 0.7070086311

00:07:15.150 --> 00:07:18.552 Portfolio here's the breakdown I made

NOTE Confidence: 0.7070086311

00:07:18.552 --> 00:07:22.825 on the basis of these 16 areas and

NOTE Confidence: 0.7070086311

00:07:22.825 --> 00:07:25.985 shown in each is the the institutes of

NOTE Confidence: 0.7070086311

00:07:25.985 --> 00:07:29.407 that are involving say DK shown and red.

NOTE Confidence: 0.7070086311

00:07:29.410 --> 00:07:32.546 We were the major participants of major

NOTE Confidence: 0.7070086311

00:07:32.546 --> 00:07:35.189 contributors to the basic portfolio.

NOTE Confidence: 0.7070086311

00:07:35.190 --> 00:07:36.216 And barrel hepatitis.

NOTE Confidence: 0.7070086311

00:07:36.216 --> 00:07:38.268 We actually only represent about 10%.

NOTE Confidence: 0.7070086311

00:07:38.270 --> 00:07:41.246 The majority was by NIIT and

NOTE Confidence: 0.7070086311

00:07:41.246 --> 00:07:43.230 by what's called NCRR.

NOTE Confidence: 0.7070086311

00:07:43.230 --> 00:07:44.649 That's research resources.
NOTE Confidence: 0.7070086311

00:07:44.649 --> 00:07:47.487 This is currently known as incats.
NOTE Confidence: 0.84020824

00:07:49.670 --> 00:07:52.470 Fatty liver disease very little from us,
NOTE Confidence: 0.84020824

00:07:52.470 --> 00:07:54.370 mostly from the Alcohol Institute.
NOTE Confidence: 0.84020824

00:07:54.370 --> 00:07:56.542 Drug induced liver disease, mostly from
NOTE Confidence: 0.84020824

00:07:56.542 --> 00:07:58.430 environmental health and of course,
NOTE Confidence: 0.84020824

00:07:58.430 --> 00:08:00.500 cancer, almost entirely by cancer.
NOTE Confidence: 0.93131299555556

00:08:02.720 --> 00:08:05.492 So while we represented only about
NOTE Confidence: 0.93131299555556

00:08:05.492 --> 00:08:08.557 1/3 of funding for liver disease,
NOTE Confidence: 0.93131299555556

00:08:08.557 --> 00:08:12.470 we represent the areas that we think.
NOTE Confidence: 0.93131299555556

00:08:12.470 --> 00:08:15.459 Of as being liver most most importantly.
NOTE Confidence: 0.83463398125

00:08:18.320 --> 00:08:20.738 Here's the breakdown by the grants
NOTE Confidence: 0.83463398125

00:08:20.738 --> 00:08:23.734 that were administered by us and
NOTE Confidence: 0.83463398125

00:08:23.734 --> 00:08:25.918 delivered disease research branch.
NOTE Confidence: 0.83463398125

00:08:25.920 --> 00:08:27.744 You can see the basic program
NOTE Confidence: 0.83463398125

00:08:27.744 --> 00:08:28.960 represented the majority of

NOTE Confidence: 0.83463398125

00:08:29.013 --> 00:08:30.555 more than half of the grants.

NOTE Confidence: 0.83463398125

00:08:30.560 --> 00:08:34.040 In 2004 we had 162 grants that were.

NOTE Confidence: 0.717612401733333

00:08:36.360 --> 00:08:40.000 Now let's the past to the present by

NOTE Confidence: 0.717612401733333

00:08:40.000 --> 00:08:42.645 showing green the distribution of

NOTE Confidence: 0.717612401733333

00:08:42.645 --> 00:08:46.440 grants now 364 by these topic areas.

NOTE Confidence: 0.717612401733333

00:08:46.440 --> 00:08:47.928 So the number of grants that

NOTE Confidence: 0.717612401733333

00:08:47.928 --> 00:08:49.709 we fund is more than doubled.

NOTE Confidence: 0.717612401733333

00:08:49.710 --> 00:08:51.726 And has increased in virtually all

NOTE Confidence: 0.717612401733333

00:08:51.726 --> 00:08:54.259 of the all of the topic areas.

NOTE Confidence: 0.717612401733333

00:08:54.260 --> 00:08:55.480 Some more than others,

NOTE Confidence: 0.717612401733333

00:08:55.480 --> 00:08:57.768 and of course the one that's expanded

NOTE Confidence: 0.717612401733333

00:08:57.768 --> 00:09:00.126 enormously is in fatty liver disease.

NOTE Confidence: 0.717612401733333

00:09:00.130 --> 00:09:01.110 We had two grants.

NOTE Confidence: 0.775118553333333

00:09:03.160 --> 00:09:05.746 2014 88. It's kind of overburdening,

NOTE Confidence: 0.775118553333333

00:09:05.750 --> 00:09:09.550 and we're going to have to divide it in half.

NOTE Confidence: 0.775118553333333

00:09:09.550 --> 00:09:11.748 At two runs, this program and our
NOTE Confidence: 0.7751185533333333

00:09:11.748 --> 00:09:14.086 one of our new people will have
NOTE Confidence: 0.7751185533333333

00:09:14.086 --> 00:09:16.420 to take some of this from him.
NOTE Confidence: 0.7751185533333333

00:09:16.420 --> 00:09:19.346 Shows you what's happened in liver disease.
NOTE Confidence: 0.8550215222222222

00:09:21.370 --> 00:09:23.094 Now, what about money?
NOTE Confidence: 0.8550215222222222

00:09:23.094 --> 00:09:25.249 Now we're talking Turkey huh?
NOTE Confidence: 0.8550215222222222

00:09:25.250 --> 00:09:28.710 So here I show you the growth of the NIH
NOTE Confidence: 0.8550215222222222

00:09:28.798 --> 00:09:32.254 total budget in green with the red dots.
NOTE Confidence: 0.8550215222222222

00:09:32.260 --> 00:09:35.158 As well as the growth of.
NOTE Confidence: 0.8550215222222222

00:09:35.160 --> 00:09:40.004 Total liver funded grants across the NIH.
NOTE Confidence: 0.8550215222222222

00:09:40.010 --> 00:09:42.428 Shown in the.
NOTE Confidence: 0.8550215222222222

00:09:42.430 --> 00:09:46.710 Between 1993 and 2009.
NOTE Confidence: 0.8550215222222222

00:09:46.710 --> 00:09:51.334 And you can see the NIH budget was.
NOTE Confidence: 0.8550215222222222

00:09:51.340 --> 00:09:52.636 Flat for many years,
NOTE Confidence: 0.8550215222222222

00:09:52.636 --> 00:09:54.256 but then began to increase,
NOTE Confidence: 0.8550215222222222

00:09:54.260 --> 00:09:56.997 and during this very important period here,

NOTE Confidence: 0.855021522222222

00:09:57.000 --> 00:10:00.810 the Senate doubled the NIH budget.

NOTE Confidence: 0.855021522222222

00:10:00.810 --> 00:10:02.808 You can see the liver component

NOTE Confidence: 0.855021522222222

00:10:02.808 --> 00:10:04.976 of the NIH has increased a

NOTE Confidence: 0.855021522222222

00:10:04.976 --> 00:10:07.256 little bit ahead of the curve.

NOTE Confidence: 0.855021522222222

00:10:07.260 --> 00:10:07.560 Actually,

NOTE Confidence: 0.855021522222222

00:10:07.560 --> 00:10:10.068 a lot ahead of the curve and this really

NOTE Confidence: 0.855021522222222

00:10:10.068 --> 00:10:11.720 started with the doubling of the budget.

NOTE Confidence: 0.855021522222222

00:10:11.720 --> 00:10:14.600 Come back to that 2009.

NOTE Confidence: 0.855021522222222

00:10:14.600 --> 00:10:15.560 I cut off there,

NOTE Confidence: 0.855021522222222

00:10:15.560 --> 00:10:17.853 not at the president because in 2009

NOTE Confidence: 0.855021522222222

00:10:17.853 --> 00:10:19.105 something very important happened

NOTE Confidence: 0.855021522222222

00:10:19.105 --> 00:10:21.286 and that is the coding of grants

NOTE Confidence: 0.855021522222222

00:10:21.286 --> 00:10:22.978 was taken away from the Institute.

NOTE Confidence: 0.855021522222222

00:10:22.980 --> 00:10:25.120 Each institute did it separately

NOTE Confidence: 0.855021522222222

00:10:25.120 --> 00:10:27.654 and it was very variable and it

NOTE Confidence: 0.855021522222222

00:10:27.654 --> 00:10:30.519 was done by computer after that.
NOTE Confidence: 0.8550215222222222

00:10:30.520 --> 00:10:34.160 That that caused an immediate increase in
NOTE Confidence: 0.8550215222222222

00:10:34.160 --> 00:10:37.538 liver related funding by over \$100 million.
NOTE Confidence: 0.8550215222222222

00:10:37.540 --> 00:10:39.400 So what I've done is I've
NOTE Confidence: 0.8550215222222222

00:10:39.400 --> 00:10:40.640 taken the balance back.
NOTE Confidence: 0.8550215222222222

00:10:40.640 --> 00:10:44.210 Baseline of 2009.
NOTE Confidence: 0.8550215222222222

00:10:44.210 --> 00:10:46.658 After this coding and these are
NOTE Confidence: 0.8550215222222222

00:10:46.658 --> 00:10:49.310 data based on what's called RCDC,
NOTE Confidence: 0.8550215222222222

00:10:49.310 --> 00:10:51.040 the coding things shows that
NOTE Confidence: 0.8550215222222222

00:10:51.040 --> 00:10:52.770 our budget has been fairly
NOTE Confidence: 0.8550215222222222

00:10:52.841 --> 00:10:54.665 flat for the first six years,
NOTE Confidence: 0.8550215222222222

00:10:54.670 --> 00:10:57.130 but has increased over the last
NOTE Confidence: 0.8550215222222222

00:10:57.130 --> 00:10:59.626 six or seven years and again,
NOTE Confidence: 0.8550215222222222

00:10:59.630 --> 00:11:00.830 liver disease a little bit
NOTE Confidence: 0.8550215222222222

00:11:00.830 --> 00:11:01.790 ahead of the curve.
NOTE Confidence: 0.777820616

00:11:07.250 --> 00:11:09.940 So that's mostly basic research.

NOTE Confidence: 0.777820616

00:11:09.940 --> 00:11:11.432 What about clinical research?

NOTE Confidence: 0.777820616

00:11:11.432 --> 00:11:13.297 Clinical research was really benefited

NOTE Confidence: 0.777820616

00:11:13.297 --> 00:11:15.149 by the doubling of the budget,

NOTE Confidence: 0.777820616

00:11:15.150 --> 00:11:16.566 because during this doubling

NOTE Confidence: 0.777820616

00:11:16.566 --> 00:11:19.198 we were able to create what we

NOTE Confidence: 0.777820616

00:11:19.198 --> 00:11:20.966 call clinical research networks,

NOTE Confidence: 0.777820616

00:11:20.970 --> 00:11:22.806 and we created quite a few.

NOTE Confidence: 0.777820616

00:11:22.810 --> 00:11:25.014 Initially, the HALLSEY trial

NOTE Confidence: 0.777820616

00:11:25.014 --> 00:11:27.769 acute liver failure Study group.

NOTE Confidence: 0.777820616

00:11:27.770 --> 00:11:30.758 Byron Upsy PC big big pressure

NOTE Confidence: 0.777820616

00:11:30.758 --> 00:11:33.090 on big look at C,

NOTE Confidence: 0.777820616

00:11:33.090 --> 00:11:35.442 but you can see that stopped and

NOTE Confidence: 0.777820616

00:11:35.442 --> 00:11:37.850 what we've done is as time goes on,

NOTE Confidence: 0.777820616

00:11:37.850 --> 00:11:41.098 we've changed the the types of clinical

NOTE Confidence: 0.777820616

00:11:41.098 --> 00:11:43.390 research networks that we've done.

NOTE Confidence: 0.777820616

00:11:43.390 --> 00:11:45.376 One of the longest standing ones
NOTE Confidence: 0.777820616

00:11:45.376 --> 00:11:47.970 is the Nash and this one here that
NOTE Confidence: 0.777820616

00:11:47.970 --> 00:11:49.570 is children now call children,
NOTE Confidence: 0.777820616

00:11:49.570 --> 00:11:52.270 began as the bill area tree
NOTE Confidence: 0.777820616

00:11:52.270 --> 00:11:53.620 show research network.
NOTE Confidence: 0.777820616

00:11:53.620 --> 00:11:56.056 Some have been in liver transplantation
NOTE Confidence: 0.777820616

00:11:56.056 --> 00:11:57.680 and acute liver failure.
NOTE Confidence: 0.777820616

00:11:57.680 --> 00:11:58.787 But you see,
NOTE Confidence: 0.777820616

00:11:58.787 --> 00:12:01.370 some after a while they stopped after
NOTE Confidence: 0.777820616

00:12:01.447 --> 00:12:06.720 either 5 to 10 or even 20 years.
NOTE Confidence: 0.777820616

00:12:06.720 --> 00:12:09.597 And currently we have 3 being funded,
NOTE Confidence: 0.777820616

00:12:09.600 --> 00:12:12.080 the hepatitis B research network
NOTE Confidence: 0.777820616

00:12:12.080 --> 00:12:14.245 has technically ended their funding
NOTE Confidence: 0.777820616

00:12:14.245 --> 00:12:17.300 there in a no cost extension.
NOTE Confidence: 0.777820616

00:12:17.300 --> 00:12:20.450 Here we are in 2022 and we've had two
NOTE Confidence: 0.777820616

00:12:20.450 --> 00:12:23.710 new clinical research networks added.

NOTE Confidence: 0.810930204285714
00:12:26.280 --> 00:12:28.086 The first of these is called triumph.
NOTE Confidence: 0.810930204285714
00:12:28.090 --> 00:12:30.710 This is actually investigator
NOTE Confidence: 0.810930204285714
00:12:30.710 --> 00:12:33.330 initiated by Estella Alonso.
NOTE Confidence: 0.810930204285714
00:12:33.330 --> 00:12:35.234 Who was Valerie dukowski?
NOTE Confidence: 0.810930204285714
00:12:35.234 --> 00:12:38.090 Our the statistician has created this
NOTE Confidence: 0.810930204285714
00:12:38.169 --> 00:12:40.935 network of 20 different centers across
NOTE Confidence: 0.810930204285714
00:12:40.935 --> 00:12:44.022 the United States that are participating
NOTE Confidence: 0.810930204285714
00:12:44.022 --> 00:12:47.514 in a randomized controlled trial of
NOTE Confidence: 0.810930204285714
00:12:47.514 --> 00:12:50.340 comparing antithymocyte globulin.
NOTE Confidence: 0.810930204285714
00:12:50.340 --> 00:12:52.676 To high dose Methylprednisolone.
NOTE Confidence: 0.810930204285714
00:12:52.676 --> 00:12:56.180 People sibo and children with acute
NOTE Confidence: 0.810930204285714
00:12:56.274 --> 00:12:58.939 liver failure of unknown cause.
NOTE Confidence: 0.810930204285714
00:12:58.940 --> 00:13:00.980 Despite 20 years of looking,
NOTE Confidence: 0.810930204285714
00:13:00.980 --> 00:13:02.933 we have not been able to sort
NOTE Confidence: 0.810930204285714
00:13:02.933 --> 00:13:04.932 out what the cause of acute
NOTE Confidence: 0.810930204285714

00:13:04.932 --> 00:13:06.757 liver failure is in children,
NOTE Confidence: 0.810930204285714

00:13:06.760 --> 00:13:08.690 and about 40% of cases.
NOTE Confidence: 0.888323940333333

00:13:10.820 --> 00:13:13.352 The cytokine look at these children
NOTE Confidence: 0.888323940333333

00:13:13.352 --> 00:13:16.478 appears to show that they have increased
NOTE Confidence: 0.888323940333333

00:13:16.478 --> 00:13:19.190 signal interferon signaling and a lot
NOTE Confidence: 0.888323940333333

00:13:19.190 --> 00:13:22.894 of this trial is focused on studying
NOTE Confidence: 0.888323940333333

00:13:22.894 --> 00:13:25.006 the immune mediated pathophysiology.
NOTE Confidence: 0.888323940333333

00:13:25.010 --> 00:13:26.990 So that's triumph. It's just started.
NOTE Confidence: 0.888323940333333

00:13:26.990 --> 00:13:29.146 Actually patients have not been enrolled yet.
NOTE Confidence: 0.888323940333333

00:13:29.150 --> 00:13:31.862 I believe Yale is one of the centers
NOTE Confidence: 0.888323940333333

00:13:31.862 --> 00:13:34.360 that are participating in Trump.
NOTE Confidence: 0.888323940333333

00:13:34.360 --> 00:13:36.912 This is the other network that we created
NOTE Confidence: 0.888323940333333

00:13:36.912 --> 00:13:39.134 last year that's still being formulated,
NOTE Confidence: 0.888323940333333

00:13:39.134 --> 00:13:41.498 and that's the liver cirrhosis network
NOTE Confidence: 0.888323940333333

00:13:41.498 --> 00:13:43.749 that consists of 10 clinical centers
NOTE Confidence: 0.888323940333333

00:13:43.749 --> 00:13:46.094 across the United States and the data

NOTE Confidence: 0.888323940333333
00:13:46.160 --> 00:13:48.280 coordinating Center at Northwestern.
NOTE Confidence: 0.888323940333333
00:13:48.280 --> 00:13:50.566 They are currently putting together a
NOTE Confidence: 0.888323940333333
00:13:50.566 --> 00:13:53.224 cohort study of patients to be followed
NOTE Confidence: 0.888323940333333
00:13:53.224 --> 00:13:55.628 with cirrhosis and a statin intervention
NOTE Confidence: 0.888323940333333
00:13:55.628 --> 00:13:58.878 trial and somewhat similar to the VA
NOTE Confidence: 0.888323940333333
00:13:58.878 --> 00:14:02.468 trial that Lupe presented recently.
NOTE Confidence: 0.888323940333333
00:14:02.470 --> 00:14:03.898 This group has just gotten together.
NOTE Confidence: 0.888323940333333
00:14:03.900 --> 00:14:07.670 We don't even have a logo yet, but.
NOTE Confidence: 0.888323940333333
00:14:07.670 --> 00:14:09.478 As part of the.
NOTE Confidence: 0.888323940333333
00:14:09.480 --> 00:14:11.657 We are also involved in strategic planning
NOTE Confidence: 0.888323940333333
00:14:11.657 --> 00:14:13.960 and here are three examples of that.
NOTE Confidence: 0.888323940333333
00:14:13.960 --> 00:14:17.138 Here's the strategic plan from our institute.
NOTE Confidence: 0.888323940333333
00:14:17.140 --> 00:14:19.660 It's a broad based plan that
NOTE Confidence: 0.888323940333333
00:14:19.660 --> 00:14:22.480 includes a liver disease.
NOTE Confidence: 0.888323940333333
00:14:22.480 --> 00:14:25.285 Here's an important plan and
NOTE Confidence: 0.888323940333333

00:14:25.285 --> 00:14:28.780 hepatitis BA search for the cure.
NOTE Confidence: 0.888323940333333

00:14:28.780 --> 00:14:30.517 It's going to be a long search I'm afraid,
NOTE Confidence: 0.888323940333333

00:14:30.520 --> 00:14:32.214 but that's what it's aimed at and
NOTE Confidence: 0.888323940333333

00:14:32.214 --> 00:14:34.113 this is a strategic plan that's
NOTE Confidence: 0.888323940333333

00:14:34.113 --> 00:14:35.973 actually just now being written
NOTE Confidence: 0.888323940333333

00:14:35.980 --> 00:14:38.350 and finally a strategic plan for
NOTE Confidence: 0.888323940333333

00:14:38.350 --> 00:14:39.930 elimination of viral hepatitis.
NOTE Confidence: 0.888323940333333

00:14:39.930 --> 00:14:43.853 This is government wide and our branch has
NOTE Confidence: 0.888323940333333

00:14:43.853 --> 00:14:46.730 has led the NIH participation in that.
NOTE Confidence: 0.9134678725

00:14:49.270 --> 00:14:51.150 Another important area for
NOTE Confidence: 0.9134678725

00:14:51.150 --> 00:14:53.030 priorities for the future,
NOTE Confidence: 0.9134678725

00:14:53.030 --> 00:14:55.910 or is this issue of inclusion,
NOTE Confidence: 0.9134678725

00:14:55.910 --> 00:14:58.610 diversity, equity and accessibility.
NOTE Confidence: 0.9134678725

00:14:58.610 --> 00:15:01.606 What's called IPO? To which our
NOTE Confidence: 0.9134678725

00:15:01.606 --> 00:15:03.216 institute has added civility.
NOTE Confidence: 0.9134678725

00:15:03.220 --> 00:15:05.476 I'm not sure what civility means.

NOTE Confidence: 0.9134678725

00:15:05.480 --> 00:15:07.116 It's a little bit.

NOTE Confidence: 0.9134678725

00:15:07.116 --> 00:15:10.313 But what this is is expanding participation

NOTE Confidence: 0.9134678725

00:15:10.313 --> 00:15:12.913 of women and underrepresented

NOTE Confidence: 0.9134678725

00:15:12.913 --> 00:15:15.555 minorities in our research,

NOTE Confidence: 0.9134678725

00:15:15.555 --> 00:15:20.350 not just the staff but also investigators.

NOTE Confidence: 0.9134678725

00:15:20.350 --> 00:15:23.686 This is ongoing and is just starting up,

NOTE Confidence: 0.9134678725

00:15:23.690 --> 00:15:26.154 but it's it's going to be an

NOTE Confidence: 0.9134678725

00:15:26.154 --> 00:15:28.130 important part of the future.

NOTE Confidence: 0.9134678725

00:15:28.130 --> 00:15:29.935 Here are some research opportunities

NOTE Confidence: 0.9134678725

00:15:29.935 --> 00:15:32.360 that we've published in the last year.

NOTE Confidence: 0.9134678725

00:15:32.360 --> 00:15:35.904 What I think should be applicable to Yale

NOTE Confidence: 0.9134678725

00:15:35.904 --> 00:15:39.087 Center one is a program announcement.

NOTE Confidence: 0.9134678725

00:15:39.090 --> 00:15:41.638 So actually have set review times and

NOTE Confidence: 0.9134678725

00:15:41.638 --> 00:15:44.814 there is some set aside money, very exciting.

NOTE Confidence: 0.9134678725

00:15:44.814 --> 00:15:46.110 One early stage.

NOTE Confidence: 0.9134678725

00:15:46.110 --> 00:15:48.710 Preclinical validation of therapeutic leads.
NOTE Confidence: 0.9134678725

00:15:48.710 --> 00:15:51.317 This is being led by Bonnie
NOTE Confidence: 0.9134678725

00:15:51.317 --> 00:15:54.278 Burgess because and.
NOTE Confidence: 0.9134678725

00:15:54.280 --> 00:15:56.050 Take a look at it.
NOTE Confidence: 0.9134678725

00:15:56.050 --> 00:15:59.221 Early stage and here is the important
NOTE Confidence: 0.9134678725

00:15:59.221 --> 00:16:01.475 announcement about high impact
NOTE Confidence: 0.9134678725

00:16:01.475 --> 00:16:04.212 interdisciplinary science, the RC2,
NOTE Confidence: 0.9134678725

00:16:04.212 --> 00:16:08.069 the RC2 is a somewhat new mechanism.
NOTE Confidence: 0.9134678725

00:16:08.070 --> 00:16:09.970 It is basically replacing
NOTE Confidence: 0.9134678725

00:16:09.970 --> 00:16:11.870 the program project slowly.
NOTE Confidence: 0.9134678725

00:16:11.870 --> 00:16:14.525 Program projects are largely being
NOTE Confidence: 0.9134678725

00:16:14.525 --> 00:16:18.026 wound down and this is a very exciting
NOTE Confidence: 0.9134678725

00:16:18.026 --> 00:16:22.120 mechanism and it's aimed at innovation.
NOTE Confidence: 0.9134678725

00:16:22.120 --> 00:16:24.448 Translational basic research.
NOTE Confidence: 0.75407962

00:16:26.480 --> 00:16:29.900 And finally a special interest
NOTE Confidence: 0.75407962

00:16:29.900 --> 00:16:32.618 announcement from our Institute on Sex,

NOTE Confidence: 0.75407962

00:16:32.620 --> 00:16:35.555 Gender, race, and ethnicity attempting

NOTE Confidence: 0.75407962

00:16:35.555 --> 00:16:39.110 to encourage grants in those areas.

NOTE Confidence: 0.75407962

00:16:39.110 --> 00:16:42.161 So here we are at the present of current

NOTE Confidence: 0.75407962

00:16:42.161 --> 00:16:46.798 NIH budget is \$41 billion. That's all.

NOTE Confidence: 0.75407962

00:16:46.800 --> 00:16:52.680 And IDK budget is about \$2.1 billion.

NOTE Confidence: 0.75407962

00:16:52.680 --> 00:16:53.716 Again, this is 2002.

NOTE Confidence: 0.75407962

00:16:53.716 --> 00:16:55.587 We're Aussie a year or two behind

NOTE Confidence: 0.75407962

00:16:55.587 --> 00:16:57.111 and and being able to show

NOTE Confidence: 0.75407962

00:16:57.111 --> 00:16:58.869 you what the budget really is.

NOTE Confidence: 0.75407962

00:16:58.870 --> 00:17:01.397 Liver disease reach our research funding at

NOTE Confidence: 0.930464313333333

00:17:03.610 --> 00:17:04.834 845 million per year.

NOTE Confidence: 0.930464313333333

00:17:04.834 --> 00:17:07.970 About 2% of the NIH budget.

NOTE Confidence: 0.930464313333333

00:17:07.970 --> 00:17:11.892 And and and IDK about 245 million.

NOTE Confidence: 0.930464313333333

00:17:11.892 --> 00:17:14.390 It's about 12% of the NTK budget.

NOTE Confidence: 0.851624128888889

00:17:16.940 --> 00:17:18.890 So that's the mostly the

NOTE Confidence: 0.851624128888889

00:17:18.890 --> 00:17:20.450 past and the present.
NOTE Confidence: 0.851624128888889

00:17:20.450 --> 00:17:21.698 I can't really tell you what
NOTE Confidence: 0.851624128888889

00:17:21.698 --> 00:17:22.839 the future is going to be,
NOTE Confidence: 0.851624128888889

00:17:22.840 --> 00:17:24.865 but we are very committed
NOTE Confidence: 0.851624128888889

00:17:24.865 --> 00:17:26.485 to continuing a healthy.
NOTE Confidence: 0.851624128888889

00:17:26.490 --> 00:17:28.682 A healthy stimulation of
NOTE Confidence: 0.851624128888889

00:17:28.682 --> 00:17:30.326 liver disease research.
NOTE Confidence: 0.851624128888889

00:17:30.330 --> 00:17:30.740 Thank you.
NOTE Confidence: 0.615384989875

00:17:32.080 --> 00:17:33.376 Yeah. Doctor Hoofnagle,
NOTE Confidence: 0.615384989875

00:17:33.376 --> 00:17:35.968 thanks very much for her brutal
NOTE Confidence: 0.615384989875

00:17:35.968 --> 00:17:38.663 review and in highlighting some
NOTE Confidence: 0.615384989875

00:17:38.663 --> 00:17:40.760 granting opportunities for us.
NOTE Confidence: 0.615384989875

00:17:40.760 --> 00:17:41.708 Thank you very much.
NOTE Confidence: 0.819524

00:17:44.090 --> 00:17:44.700 Welcome.