

BUDGET REQUEST BY IC (SUMMARY TABLE)

(Dollars in Thousands) ¹	FY 2020 Final ⁶	FY 2021 Enacted ⁶	FY 2022 President's Budget ⁷
NCI.....	\$6,440,438	\$6,558,805	\$6,733,302
NHLBI.....	\$3,625,258	\$3,664,703	\$3,845,681
NIDCR.....	\$477,679	\$484,843	\$516,197
NIDDK ²	\$2,265,146	\$2,281,931	\$2,360,748
NINDS.....	\$2,446,577	\$2,510,913	\$2,783,300
NIAID.....	\$5,876,195	\$6,067,071	\$6,245,926
NIGMS ³	\$2,937,218	\$2,991,417	\$3,096,103
NICHD ⁴	\$1,797,780	\$1,837,972	\$1,942,117
NEI.....	\$823,325	\$835,521	\$858,535
NIEHS ⁵	\$883,598	\$896,168	\$1,020,647
NIA.....	\$3,545,869	\$3,899,926	\$4,035,591
NIAMS.....	\$624,889	\$634,286	\$680,186
NIDCD.....	\$490,692	\$498,073	\$511,792
NIMH.....	\$2,042,966	\$2,105,902	\$2,213,574
NIDA.....	\$1,457,724	\$1,480,309	\$1,852,503
NIAAA.....	\$546,696	\$554,882	\$570,165
NINR.....	\$172,363	\$174,936	\$199,755
NHGRI.....	\$604,118	\$616,012	\$632,973
NIBIB.....	\$404,638	\$410,726	\$422,039
NIMHD.....	\$335,812	\$391,586	\$652,244
NCCIH.....	\$151,877	\$154,079	\$184,323
NCATS.....	\$832,888	\$855,421	\$878,957
FIC.....	\$80,827	\$84,013	\$96,322
NLM.....	\$456,911	\$462,138	\$474,864
OD ⁴	\$2,163,516	\$2,283,867	\$2,394,859
ARPA-H.....	---	---	\$6,500,000
B&F.....	\$200,000	\$200,000	\$250,000
Total, NIH Program Level.....	\$41,685,000	\$42,935,500	\$51,952,703
Special Type 1 Diabetes Research.....	-\$150,000	-\$150,000	-\$141,450
PHS Program Evaluation.....	-\$1,230,821	-\$1,271,505	-\$1,271,505
Interior Approp. (Superfund Research).....	-\$81,000	-\$81,500	-\$83,540
Total, NIH Labor/HHS Budget Authority.....	\$40,223,179	\$41,432,495	\$50,456,208

¹ Includes funding derived by transfer from the NIH Innovation Account under the 21st Century Cures Act.

² Includes Type 1 Diabetes mandatory funding as shown later in the table.

³ Includes Program Evaluation financing as shown later in the table.

⁴ FY 2020 and FY 2021 levels for OD and NICHD are adjusted for comparability with the proposed transfer of ECHO and INCLUDE to NICHD in FY 2022.

⁵ Includes Interior Appropriations for Superfund Research activities as shown later in the table.

⁶ Amounts for FY 2020 and FY 2021 reflect directive transfer of \$5.0 million from OD to the HHS Office of Inspector General, and HIV/AIDS transfers across ICs under the authority of the Office of AIDS Research.

⁷ Reflects directive transfer of \$5.0 million from OD to the HHS Office of Inspector General.

APPROPRIATIONS ADJUSTMENT TABLE FOR FY 2020

(Dollars in Thousands)	FY 2020 Enacted	Permissive Transfer (NIH Innovation Account) ³	OIG Transfer ⁴	HIV/AIDS Transfer ⁵	Subtotal	Comparable Adjustments	Comparable Budget Authority
NCI.....	\$6,245,442	\$195,000		-\$4	\$6,440,438		\$6,440,438
NHLBI.....	\$3,624,258			\$1,000	\$3,625,258		\$3,625,258
NIDCR.....	\$477,429			\$250	\$477,679		\$477,679
NIDDK ¹	\$2,264,314			\$832	\$2,265,146		\$2,265,146
NINDS.....	\$2,374,687	\$70,000		\$1,890	\$2,446,577		\$2,446,577
NIAID.....	\$5,885,470			-\$9,275	\$5,876,195		\$5,876,195
NIGMS.....	\$2,937,218				\$2,937,218		\$2,937,218
NICHHD.....	\$1,556,879			\$30	\$1,556,909	\$240,871	\$1,797,780
NEI.....	\$824,090			-\$765	\$823,325		\$823,325
NIEHS ²	\$883,598				\$883,598		\$883,598
NIA.....	\$3,543,673			\$2,196	\$3,545,869		\$3,545,869
NIAMS.....	\$624,889				\$624,889		\$624,889
NIDCD.....	\$490,692				\$490,692		\$490,692
NIMH.....	\$1,968,374	\$70,000		\$4,592	\$2,042,966		\$2,042,966
NIDA.....	\$1,462,016			-\$4,292	\$1,457,724		\$1,457,724
NIAAA.....	\$545,373			\$1,323	\$546,696		\$546,696
NINR.....	\$169,113			\$3,250	\$172,363		\$172,363
NHGRI.....	\$606,349			-\$2,231	\$604,118		\$604,118
NIBIB.....	\$403,638			\$1,000	\$404,638		\$404,638
NIMHD.....	\$335,812				\$335,812		\$335,812
NCCIH.....	\$151,740			\$137	\$151,877		\$151,877
NCATS.....	\$832,888				\$832,888		\$832,888
FIC.....	\$80,760			\$67	\$80,827		\$80,827
NLM.....	\$456,911				\$456,911		\$456,911
OD.....	\$2,744,387	-\$335,000	-\$5,000		\$2,404,387	-\$240,871	\$2,163,516
B&F.....	\$200,000				\$200,000		\$200,000
Total, NIH Program Level.....	\$41,690,000	\$0	-\$5,000	\$0	\$41,685,000	\$0	\$41,685,000
Less funds allocated from different sources:							
Mandatory Type 1 Diabetes Research.....	-\$150,000				-\$150,000		-\$150,000
PHS Program Evaluation.....	-\$1,230,821				-\$1,230,821		-\$1,230,821
Total, NIH Discretionary Budget Authority...	\$40,309,179	\$0	-\$5,000	\$0	\$40,304,179	\$0	\$40,304,179
Interior Budget Authority.....	-\$81,000				-\$81,000		-\$81,000
Total, NIH Labor/HHS Budget Authority.....	\$40,228,179	\$0	-\$5,000	\$0	\$40,223,179	\$0	\$40,223,179

¹Includes Type 1 Diabetes.

²Includes Superfund Research activity.

³Reflects redistribution of NIH Innovation account for the 21st Century Cures Act.

⁴Reflects directive transfer of \$5.0 million from OD to the HHS Office of Inspector General.

⁵Reflects HIV/AIDS transfers across ICs under the authority of the Office of AIDS Research.

APPROPRIATIONS ADJUSTMENT TABLE FOR FY 2021

(Dollars in Thousands)	FY 2021 Enacted	Permissive Transfer (NIH Innovation Account) ³	OIG Transfer ⁴	HIV/AIDS Transfer ⁵	Subtotal	Comparable Adjustments	Comparable Budget Authority
NCL.....	\$6,364,852	\$195,000		-\$1,047	\$6,558,805		\$6,558,805
NHLBI.....	\$3,664,811			-\$108	\$3,664,703		\$3,664,703
NIDCR.....	\$484,867			-\$24	\$484,843		\$484,843
NIDDK ¹	\$2,281,975			-\$44	\$2,281,931		\$2,281,931
NINDS.....	\$2,463,393	\$50,000		-\$2,480	\$2,510,913		\$2,510,913
NIAD.....	\$6,069,619			-\$2,548	\$6,067,071		\$6,067,071
NIGMS.....	\$2,991,417				\$2,991,417		\$2,991,417
NICHD.....	\$1,590,337			\$2,635	\$1,592,972	\$245,000	\$1,837,972
NEL.....	\$835,714			-\$193	\$835,521		\$835,521
NIEHS ²	\$896,175			-\$7	\$896,168		\$896,168
NIA.....	\$3,899,227			\$699	\$3,899,926		\$3,899,926
NIAMS.....	\$634,292			-\$6	\$634,286		\$634,286
NIDCD.....	\$498,076			-\$3	\$498,073		\$498,073
NIMH.....	\$2,053,708	\$50,000		\$2,194	\$2,105,902		\$2,105,902
NIDA.....	\$1,479,660			\$649	\$1,480,309		\$1,480,309
NIAAA.....	\$554,923			-\$41	\$554,882		\$554,882
NINR.....	\$174,957			-\$21	\$174,936		\$174,936
NHGRI.....	\$615,780			\$232	\$616,012		\$616,012
NIBIB.....	\$410,728			-\$2	\$410,726		\$410,726
NIMHD.....	\$390,865			\$721	\$391,586		\$391,586
NCCIH.....	\$154,162			-\$83	\$154,079		\$154,079
NCATS.....	\$855,421				\$855,421		\$855,421
FIC.....	\$84,044			-\$31	\$84,013		\$84,013
NLM.....	\$463,787			-\$1,649	\$462,138		\$462,138
OD.....	\$2,827,710	-\$295,000	-\$5,000	\$1,157	\$2,528,867	-\$245,000	\$2,283,867
B&F.....	\$200,000				\$200,000		\$200,000
Total, NIH Program Level.....	\$42,940,500	\$0	-\$5,000	\$0	\$42,935,500	\$0	\$42,935,500
Less funds allocated from different sources:							
Mandatory Type 1 Diabetes Research.....	-\$150,000				-\$150,000		-\$150,000
PHS Program Evaluation.....	-\$1,230,821				-\$1,230,821		-\$1,230,821
Total, NIH Discretionary Budget Authority...	\$41,559,679	\$0	-\$5,000	\$0	\$41,554,679	\$0	\$41,554,679
Interior Budget Authority.....	-\$81,000				-\$81,000		-\$81,000
Total, NIH Labor/HHS Budget Authority.....	\$41,478,679	\$0	-\$5,000	\$0	\$41,473,679	\$0	\$41,473,679

¹Includes Type 1 Diabetes.

²Includes Superfund Research activity.

³Reflects redistribution of NIH Innovation account for the 21st Century Cures Act.

⁴Reflects directive transfer of \$5.0 million from OD to the HHS Office of Inspector General.

⁵Reflects HIV/AIDS transfers across ICs under the authority of the Office of AIDS Research.

BUDGET MECHANISM TABLE

Budget Mechanism - Total^{1,2,3}

(Dollars in Thousands) ^{1,2,3}	FY 2020 Final ^{7,8}		FY 2021 Enacted ^{7,8}		FY 2022 President's Budget ^{7,9}		FY 2022 +/- FY 2021	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount
Research Projects:								
Noncompeting	28,415	\$15,903,452	29,040	\$16,402,139	29,718	\$17,350,182	678	\$948,043
Administrative Supplements ³	(2,723)	555,090	(2,573)	509,636	(2,388)	456,192	(-185)	-53,443
Competing	11,395	\$6,395,871	11,189	\$6,492,703	12,664	\$7,191,779	1,475	\$699,075
Subtotal, RPGs	39,810	\$22,854,413	40,229	\$23,404,478	42,382	\$24,998,153	2,153	\$1,593,675
SBIR/STTR	1,833	1,127,734	1,854	1,154,534	1,961	1,229,604	107	75,069
Research Project Grants	41,643	\$23,982,147	42,083	\$24,559,013	44,343	\$26,227,757	2,260	\$1,668,744
Research Centers:								
Specialized/Comprehensive	999	\$1,937,294	1,063	\$2,036,557	1,104	\$2,132,854	41	\$96,297
Clinical Research	70	432,804	67	419,359	66	418,554	-1	-805
Biotechnology	73	125,526	64	102,802	59	93,653	-5	-9,149
Comparative Medicine	48	138,385	51	141,435	52	141,514	1	79
Research Centers in Minority Institutions	21	74,111	22	78,386	25	86,000	3	7,614
Research Centers	1,211	\$2,708,120	1,267	\$2,778,539	1,306	\$2,872,575	39	\$94,036
Other Research:								
Research Careers	4,461	\$835,776	4,558	\$862,683	4,761	\$896,618	203	\$33,935
Cancer Education	59	14,878	83	20,939	85	21,439	2	500
Cooperative Clinical Research	272	498,295	265	501,540	268	508,255	3	6,715
Biomedical Research Support	125	89,486	131	91,397	130	90,994	-1	-403
Minority Biomedical Research Support	286	98,392	257	88,594	190	66,696	-67	-21,898
Other	2,127	1,273,872	2,265	1,431,756	2,454	1,512,570	189	80,814
Other Research	7,330	\$2,810,700	7,559	\$2,996,908	7,888	\$3,096,571	329	\$99,663
Total Research Grants	50,184	\$29,500,967	50,909	\$30,334,460	53,537	\$32,196,903	2,628	\$1,862,443
Ruth L. Kirchstein Training Awards:								
	<u>FTTPs</u>		<u>FTTPs</u>		<u>FTTPs</u>		<u>FTTPs</u>	
Individual Awards	3,919	\$186,323	4,005	\$196,857	4,106	\$209,440	101	\$12,584
Institutional Awards	13,089	720,929	13,550	755,007	13,843	809,755	293	54,748
Total Research Training	17,008	\$907,252	17,555	\$951,864	17,949	\$1,019,196	394	\$67,332
Research & Develop. Contracts								
(SBIR/STTR) (non-add) ³	2,304	\$3,295,504	2,355	\$3,362,683	2,521	\$3,561,276	166	\$198,593
	(109)	(71,684)	(116)	(76,634)	(121)	(82,267)	(5)	(5,632)
Intramural Research		\$4,460,682		\$4,548,996		\$4,695,985		\$146,989
Res. Management & Support		1,979,165		2,090,554		2,184,166		93,612
Res. Management & Support (SBIR Admin) (non-add) ³		(7,762)		(10,128)		(10,116)		(-11)
Office of the Director - Appropriation ^{3,4}		(2,163,516)		(2,283,867)		(2,394,859)		(110,992)
Office of the Director - Other		1,230,430		1,335,443		1,431,636		96,194
ORIP (non-add) ^{3,4}		(293,976)		(304,684)		(299,885)		(4,798)
Common Fund (non-add) ^{3,4}		(639,111)		(648,539)		(658,539)		(10,000)
ARPA-H		0		0		6,500,000		6,500,000
Buildings and Facilities ⁵		230,000		230,000		280,000		50,000
Appropriation ³		(200,000)		(200,000)		(250,000)		(50,000)
Type 1 Diabetes ⁶		-150,000		-150,000		-141,450		8,550
Program Evaluation Financing ⁶		-1,230,821		-1,271,505		-1,271,505		0
Subtotal, Labor/HHS Budget Authority		\$40,223,179		\$41,432,495		\$50,456,208		\$9,023,713
Interior Appropriation for Superfund Research		81,000		81,500		83,540		2,040
Total, NIH Discretionary Budget Authority		\$40,304,179		\$41,513,995		\$50,539,748		\$9,025,753
Type 1 Diabetes		150,000		150,000		141,450		-8,550
Total, NIH Budget Authority		\$40,454,179		\$41,663,995		\$50,681,198		\$9,017,203
Program Evaluation Financing		1,230,821		1,271,505		1,271,505		0
Total, Program Level		\$41,685,000		\$42,935,500		\$51,952,703		\$9,017,203

1 All Subtotal and Total numbers may not add due to rounding.
2 Includes 21st Century Cures Act funding and excludes supplemental financing.
3 All numbers in italics and brackets are non-add.
4 Number of grants and dollars for the Common Fund and ORIP components of OD are distributed by mechanism and are noted here as non-adds. Office of the Director - Appropriation is the non-add total of these amounts and the funds accounted for under OD - Other.
5 Includes B&F appropriation and monies allocated pursuant to appropriations acts provisions such that funding may be used for facilities repairs and improvements at the NCI Federally Funded Research and Development Center in Frederick, Maryland.
6 Number of grants and dollars for mandatory Type 1 Diabetes (T1D) and NIGMS Program Evaluation financing are distributed by mechanism above; therefore, T1D and Program Evaluation financing amounts are deducted to provide subtotals for Labor/HHS Budget Authority.
7 Reflects transfer of \$5.0 million to the HHS OIG.
8 Amounts are adjusted for comparability with the proposed transfer of ECHO and INCLUDE from OD to NICHD in FY 2022.
9 Reflects Type 1 Diabetes Research sequestration of \$8.55 million.

BUDGET AUTHORITY BY OBJECT CLASS INCLUDING TYPE 1 DIABETES

(Dollars in Thousands)¹

Object Classes	FY 2021 Enacted	FY 2022 President's Budget	FY 2022 +/- FY 2021
Personnel Compensation			
Full-Time Permanent (11.1)	\$1,116,657	\$1,181,512	\$64,855
Other Than Full-Time Permanent (11.3)	561,071	584,236	23,165
Other Personnel Compensation (11.5)	58,144	60,051	1,907
Military Personnel (11.7)	17,474	18,153	679
Special Personnel Services Payments (11.8)	207,271	213,584	6,313
Subtotal Personnel Compensation (11.9)	\$1,960,617	\$2,057,536	\$96,919
Civilian Personnel Benefits (12.1)	639,521	689,172	49,651
Military Personnel Benefits (12.2)	13,667	14,120	454
Benefits to Former Personnel (13.0)	0	0	0
Total Pay Costs	\$2,613,805	\$2,760,829	\$147,024
Travel & Transportation of Persons (21.0)	19,957	21,660	1,702
Transportation of Things (22.0)	6,452	6,546	94
Rental Payments to GSA (23.1)	25,682	25,482	-200
Rental Payments to Others (23.2)	1,454	1,404	-50
Communications, Utilities & Misc. Charges (23.3)	25,805	25,940	135
Printing & Reproduction (24.0)	241	240	0
Consultant Services (25.1)	1,382,675	1,452,680	70,004
Other Services (25.2)	1,470,793	1,488,960	18,166
Purchase of goods and services from government accounts (25.3)	3,049,930	3,200,055	150,125
Operation & Maintenance of Facilities (25.4)	68,179	68,685	506
R&D Contracts (25.5)	1,506,025	1,610,862	104,836
Medical Care (25.6)	36,371	37,515	1,144
Operation & Maintenance of Equipment (25.7)	162,482	165,034	2,551
Subsistence & Support of Persons (25.8)	7	7	0
Subtotal Other Contractual Services (25.0)	\$7,676,464	\$8,023,797	\$347,333
Supplies & Materials (26.0)	223,730	226,523	2,793
Equipment (31.0)	240,702	282,806	42,103
Land and Structures (32.0)	215,816	216,554	738
Investments & Loans (33.0)	0	0	0
Grants, Subsidies & Contributions (41.0)	30,532,328	39,005,820	8,473,491
Insurance Claims & Indemnities (42.0)	0	0	0
Interest & Dividends (43.0)	58	56	-2
Refunds (44.0)	0	0	0
Subtotal Non-Pay Costs	\$38,968,690	\$47,836,829	\$8,868,139
Total Budget Authority	\$41,582,495	\$50,597,658	\$9,015,163

¹ Excludes the Superfund Research account under the jurisdiction of the Interior & Related Agencies Appropriations Subcommittee, supplemental financing, and Program Evaluation Financing.

BUDGET AUTHORITY BY OBJECT CLASS INCLUDING SSF AND MF

(Dollars in Thousands)¹

Object Classes	FY 2021 Enacted	FY 2022 President's Budget	FY 2022 +/- FY 2021
Personnel Compensation			
Full-Time Permanent (11.1)	\$1,556,025	\$1,648,850	\$92,825
Other Than Full-Time Permanent (11.3)	613,349	637,703	24,354
Other Personnel Compensation (11.5)	96,949	101,128	4,179
Military Personnel (11.7)	26,972	27,915	943
Special Personnel Services Payments (11.8)	214,043	220,510	6,467
Subtotal Personnel Compensation (11.9)	\$2,507,339	\$2,636,107	\$128,768
Civilian Personnel Benefits (12.1)	825,072	889,461	64,389
Military Personnel Benefits (12.2)	19,530	20,147	617
Benefits to Former Personnel (13.0)	1,218	1,218	0
Total Pay Costs	\$3,353,159	\$3,546,932	\$193,773
Other Contractual Services (25.0)			
Travel & Transportation of Persons (21.0)	21,826	23,624	1,798
Transportation of Things (22.0)	11,963	12,088	125
Rental Payments to GSA (23.1)	84,830	84,642	-188
Rental Payments to Others (23.2)	63,462	63,413	-49
Communications, Utilities & Misc. Charges (23.3)	127,695	130,935	3,240
Printing & Reproduction (24.0)	252	252	0
Consultant Services (25.1)	630,822	661,296	30,474
Other Services (25.2)	2,775,618	2,850,800	75,181
Purchase of goods and services from government accounts (25.3)	870,644	917,550	46,906
Operation & Maintenance of Facilities (25.4)	229,415	245,944	16,529
R&D Contracts (25.5)	1,506,378	1,611,216	104,839
Medical Care (25.6)	51,162	53,258	2,096
Operation & Maintenance of Equipment (25.7)	361,980	370,460	8,480
Subsistence & Support of Persons (25.8)	41	43	2
Subtotal Other Contractual Services (25.0)	\$6,426,060	\$6,710,567	\$284,506
Non-Pay Costs			
Supplies & Materials (26.0)	400,613	413,398	12,785
Equipment (31.0)	299,232	343,961	44,729
Land and Structures (32.0)	260,800	261,754	953
Investments & Loans (33.0)	0	0	0
Grants, Subsidies & Contributions (41.0)	30,532,328	39,005,820	8,473,491
Insurance Claims & Indemnities (42.0)	0	0	0
Interest & Dividends (43.0)	274	272	-2
Refunds (44.0)	0	0	0
Subtotal Non-Pay Costs	\$38,229,336	\$47,050,726	\$8,821,390
Total Budget Authority	\$41,582,495	\$50,597,658	\$9,015,163

¹ Excludes the Superfund Research account under the jurisdiction of the Interior & Related Agencies Appropriations Subcommittee, supplemental financing, and Program Evaluation Financing.

SALARIES AND EXPENSES

(Dollars in Thousands)¹

Object Classes	FY 2021 Enacted	FY 2022 President's Budget	FY 2022 +/- FY 2021
<u>Personnel Compensation</u>			
Full-Time Permanent (11.1)	\$1,116,657	\$1,181,512	\$64,855
Other Than Full-Time Permanent (11.3)	561,071	584,236	23,165
Other Personnel Compensation (11.5)	58,144	60,051	1,907
Military Personnel (11.7)	17,474	18,153	679
Special Personnel Services Payments (11.8)	207,271	213,584	6,313
Subtotal Personnel Compensation (11.9)	\$1,960,617	\$2,057,536	\$96,919
Civilian Personnel Benefits (12.1)	639,521	689,172	49,651
Military Personnel Benefits (12.2)	13,667	14,120	454
Benefits to Former Personnel (13.0)	0	0	0
Total Pay Costs	\$2,613,805	\$2,760,829	\$147,024
Travel & Transportation of Persons (21.0)	19,957	21,660	1,702
Transportation of Things (22.0)	6,452	6,546	94
Rental Payments to Others (23.2)	1,454	1,404	-50
Communications, Utilities & Misc. Charges (23.3)	25,805	25,940	135
Printing & Reproduction (24.0)	241	240	0
<u>Other Contractual Services:</u>			
Consultant Services (25.1) ²	1,267,494	1,316,389	48,895
Other Services (25.2)	1,470,793	1,488,960	18,166
Purchase of goods and services from government accounts (25.3) ²	2,004,747	2,108,390	103,643
Operation & Maintenance of Facilities (25.4) ²	68,179	68,685	506
Operation & Maintenance of Equipment (25.7)	162,482	165,034	2,551
Subsistence & Support of Persons (25.8)	7	30,007	30,000
Subtotal Other Contractual Services	\$4,973,702	\$5,177,465	\$203,763
Supplies & Materials (26.0)	223,730	226,523	2,793
Subtotal Non-Pay Costs	\$5,251,341	\$5,459,779	\$208,437
Total Salaries and Expense / Administrative Costs	\$7,865,147	\$8,220,608	\$355,461

¹ Excludes the Superfund Research account under the jurisdiction of the Interior & Related Agencies Appropriations Subcommittee, supplemental financing, and Program Evaluation Financing.

² Excludes obligations from accounts (OC 25.1, 25.3 and 25.4) supporting Program Evaluations and Inter-agency Agreements related to the Research and Development Contracts mechanism.

DETAIL OF FULL-TIME EQUIVALENT EMPLOYMENT (FTE)

Institutes and Centers	FY 2020 Actual	FY 2021 Estimate	FY 2022 Estimate
NCI.....	2,993	3,090	3,193
NHLBI.....	817	962	962
NIDCR.....	230	247	252
NIDDK.....	632	666	666
NINDS.....	525	549	607
NIAID.....	1,969	2,051	2,051
NIGMS.....	171	184	184
NICHD ¹	520	561	602
NEI.....	269	282	282
NIEHS.....	625	662	672
NIA.....	438	478	520
NIAMS.....	219	238	238
NIDCD.....	130	140	140
NIMH.....	548	577	589
NIDA.....	363	388	388
NIAAA.....	219	238	238
NINR.....	85	96	111
NHGRI.....	334	351	370
NIBIB.....	92	102	102
FIC.....	59	61	61
NIMHD.....	66	71	107
NCCIH.....	71	79	90
NCATS.....	187	239	277
NLM.....	647	741	741
OD ¹	875	952	975
ARPA-H.....	---	---	50
Central Services:			
OD - CS.....	792	841	851
CC.....	1,883	1,995	2,035
CSR.....	409	422	427
CIT.....	227	257	257
ORS.....	512	539	539
ORF.....	716	726	726
Subtotal Central Services².....	4,539	4,780	4,835
<i>PHS Trust Fund (non-add)³.....</i>	<i>4</i>	<i>4</i>	<i>4</i>
<i>CRADA (non-add)⁴.....</i>	<i>6</i>	<i>6</i>	<i>6</i>
Total.....	17,623	18,785	19,303

¹ Includes transfer of 11 ECHO FTEs from OD to NICHD in FY 2022.

² Reflects FTE associated with Central Services positions whose payroll costs are financed from the NIH Management Fund and the NIH Service and Supply Fund.

³ PHS Trust Fund positions are incorporated within the IC's Direct-funded civilian FTE category and are treated as non-add values.

⁴ CRADA positions are distributed across multiple ICs and are treated as non-add values.

PROGRAMS PROPOSED FOR ELIMINATION

The FY 2022 request for the National Institutes of Health does not propose any programs for elimination.

PHYSICIAN’S COMPARABILITY ALLOWANCE WORKSHEET

	FY 2019 Actual	FY 2020 Actual	FY 2021 Estimate ¹	FY 2022 Estimate	
1) Number of Physicians Receiving PCAs	130	123	126	126	
2) Number of Physicians with One-Year PCA	23	22	21	21	
3) Number of Physicians with Multi-Year PCA	107	101	105	105	
4) Average Annual Physician Pay (without PCA payment)	\$168,551	\$174,272	\$174,452	\$178,420	
5) Average Annual PCA Payment	\$17,445	\$18,770	\$20,744	\$21,216	
6) Number of Physicians Receiving PCAs by Category (non-add)	Category I Clinical Position				
	Category II Research Position	130	123	124	
	Category III Occupational Health				
	Category IV-A Disability Evaluation			1	1
	Category IV-B Health and Medical Admin.	0	0	1	1

7) If applicable, list and explain the necessity of any additional physician categories designated by your agency (for categories other than I through IV-B). Provide the number of PCA agreements per additional category for the PY, CY and BY.

N/A

8) Provide the maximum annual PCA amount paid to each category of physician in your agency and explain the reasoning for these amounts by category.

Maximum annual PCA amounts for category II and IV-B vary based on grade level, amount of federal service and length of the PCA agreement. The monetary range is between \$4,000 and \$30,000. These flexible amounts are necessary to recruit and retain the caliber of physician needed to carry out the NIH mission which directly impacts the health of the nation.

9) Explain the recruitment and retention problem(s) for each category of physician in your agency (this should demonstrate that a current need continues to persist).(Please include any staffing data to support your explanation, such as number and duration of unfilled positions and number of accessions and separations per fiscal year.)

NIH strives to make progress recruiting and retaining qualified physicians to the Federal service. However, due to competition and more lucrative compensation in the private sector it continues to be challenging. NIH consistently has had a high turnover rate for physicians. NIH physicians require unique and specialized qualifications that make it difficult to fill vacancies.

10) Explain the degree to which recruitment and retention problems were alleviated in your agency through the use of PCAs in the prior fiscal year. (Please include any staffing data to support your explanation, such as number and duration of unfilled positions and number of accessions and separations per fiscal year.)

In FY 2020, there were a total of 123 PCA recipients across NIH. In FY 2021 and beyond, as indicated by the minimal increase in recipients to-date relative to the prior year, the critical need continues to exist for highly qualified, specialized physicians to support the NIH mission. NIH still requires compensation flexibilities such as PCA to attract and retain qualified physicians.

11) Provide any additional information that may be useful in planning PCA staffing levels and amounts in your agency.

N/A

¹ FY 2021 data will be approved during the FY 2022 Budget cycle.

HISTORY OF OBLIGATIONS BY IC

(Dollars in Thousands)	FY 2012	FY 2013	FY 2014	FY 2015 ¹	FY 2016 ¹	FY 2017 ^{1,6}	FY 2018 ^{1,6,7}	FY 2019 ^{1,6,8}	FY 2020 ^{1,6,9}	FY 2021 ^{1,6,10} Enacted	FY 2022 ^{1,6,10,11} President's Budget
NCL.....	\$5,062,763	\$4,789,014	\$4,932,368	\$4,944,593	\$5,206,169	\$5,636,393	\$5,948,569	\$5,993,599	\$6,418,988	\$6,755,147	\$6,733,302
NHLBI.....	\$3,073,302	\$2,903,768	\$2,988,415	\$2,995,546	\$3,109,062	\$3,209,843	\$3,374,154	\$3,482,237	\$3,624,863	\$3,664,703	\$3,845,681
NIDCR.....	\$409,947	\$387,309	\$397,833	\$397,672	\$412,788	\$424,782	\$446,656	\$460,613	\$477,644	\$484,843	\$516,197
NIDDK ²	\$1,943,706	\$1,837,027	\$1,884,377	\$1,899,088	\$1,963,738	\$2,009,448	\$1,989,700	\$2,099,265	\$2,220,977	\$2,526,624	\$2,360,748
NINDS.....	\$1,623,344	\$1,533,793	\$1,588,899	\$1,604,581	\$1,692,830	\$1,778,684	\$1,949,067	\$2,413,897	\$2,443,099	\$2,517,496	\$2,783,300
NIAID.....	\$4,482,369	\$4,235,094	\$4,401,185	\$4,417,529	\$4,749,884	\$4,905,708	\$5,262,398	\$5,567,138	\$5,880,084	\$6,085,200	\$6,245,926
NIGMS ³	\$2,425,522	\$2,293,044	\$2,366,429	\$2,372,199	\$2,508,868	\$2,646,059	\$2,780,954	\$2,821,806	\$2,937,142	\$2,991,417	\$3,096,103
NICHD.....	\$1,318,943	\$1,246,140	\$1,283,314	\$1,286,797	\$1,338,280	\$1,376,541	\$1,449,613	\$1,508,603	\$1,556,841	\$1,837,972	\$1,942,117
NEL.....	\$701,407	\$657,055	\$675,551	\$676,726	\$707,002	\$731,203	\$770,483	\$793,767	\$823,310	\$835,521	\$858,535
NIEHS ⁴	\$763,225	\$721,331	\$743,002	\$745,533	\$769,730	\$789,860	\$826,646	\$850,793	\$883,808	\$896,168	\$1,020,647
NIA.....	\$1,120,391	\$1,040,565	\$1,171,656	\$1,197,459	\$1,596,005	\$2,048,792	\$2,571,438	\$3,080,043	\$3,545,814	\$3,899,926	\$4,035,591
NIAMS.....	\$534,791	\$505,206	\$520,314	\$521,480	\$540,874	\$556,568	\$585,240	\$602,907	\$624,832	\$634,286	\$680,186
NIDCD.....	\$415,500	\$392,540	\$404,237	\$405,168	\$422,311	\$435,877	\$458,876	\$472,988	\$490,687	\$498,073	\$511,792
NIMH.....	\$1,477,516	\$1,396,006	\$1,419,632	\$1,433,603	\$1,516,325	\$1,604,624	\$1,754,423	\$1,869,653	\$2,044,852	\$2,107,924	\$2,213,574
NIDA.....	\$1,051,410	\$993,404	\$1,017,957	\$1,015,695	\$1,048,971	\$1,070,813	\$1,161,149	\$1,621,334	\$1,457,683	\$1,480,309	\$1,852,503
NIAAA.....	\$458,665	\$433,247	\$446,282	\$447,152	\$466,713	\$482,449	\$508,398	\$525,282	\$546,691	\$554,882	\$570,165
NINR.....	\$144,500	\$136,516	\$140,553	\$140,837	\$145,701	\$149,930	\$157,633	\$163,165	\$172,342	\$174,936	\$199,755
NHGR1.....	\$512,258	\$483,650	\$498,076	\$498,648	\$512,486	\$528,316	\$556,741	\$575,361	\$604,083	\$616,012	\$632,973
NIBIB.....	\$337,728	\$319,062	\$326,989	\$327,223	\$342,997	\$356,971	\$376,700	\$388,079	\$404,616	\$410,726	\$422,039
NIMHD.....	\$275,927	\$260,671	\$268,439	\$270,480	\$280,264	\$287,640	\$304,372	\$313,195	\$335,799	\$391,586	\$652,244
NCCIH.....	\$127,820	\$120,767	\$124,368	\$124,046	\$129,760	\$134,373	\$141,667	\$145,933	\$151,871	\$154,079	\$184,323
NCATS.....	\$574,297	\$542,598	\$633,571	\$632,629	\$684,366	\$704,248	\$754,080	\$847,430	\$832,856	\$854,421	\$878,957
FIC.....	\$69,493	\$65,627	\$67,575	\$67,576	\$69,996	\$71,813	\$75,534	\$77,894	\$80,811	\$84,013	\$96,322
NLM ⁵	\$373,087	\$325,088	\$334,383	\$336,653	\$393,074	\$406,250	\$424,789	\$441,645	\$456,584	\$462,138	\$474,864
ORIP.....	\$303,525	\$290,042	\$294,486	\$294,662	\$295,783	\$279,130	\$289,205	\$288,096	\$293,970	\$299,885	\$304,684
Common Fund.....	\$544,930	\$513,461	\$531,146	\$545,607	\$675,628	\$695,430	\$600,707	\$619,166	\$639,111	\$648,539	\$658,539
OD - Other.....	\$608,713	\$608,584	\$477,293	\$573,328	\$599,263	\$714,058	\$1,016,632	\$1,185,155	\$1,467,130	\$1,398,785	\$1,431,636
B&F.....	\$125,308	\$106,676	\$88,880	\$123,464	\$79,883	\$113,415	\$106,434	\$211,107	\$108,709	\$200,000	\$250,000
ARPA-H.....	---	---	---	---	---	---	---	---	---	---	\$6,500,000
Total, NIH Program Level.....	\$30,860,387	\$29,137,284	\$30,027,205	\$30,295,974	\$32,258,751	\$34,149,217	\$36,642,258	\$39,420,151	\$41,525,195	\$43,466,612	\$51,952,703
Less funds allocated from different sources:											
Mandatory - Special type 1 Diabetes Research.....	-\$150,000	-\$142,350	-\$139,200	-\$150,000	-\$150,000	-\$139,650	-\$26,292	-\$73,923	-\$105,893	-\$150,000	-\$141,450
PHS Program Evaluation.....	-\$8,200	-\$8,200	-\$8,200	-\$715,000	-\$780,000	-\$824,443	-\$922,871	-\$1,146,821	-\$1,230,821	-\$1,271,505	-\$1,271,505
Total, NIH Discretionary Budget Authority.....	\$30,702,187	\$28,986,734	\$29,879,805	\$29,430,974	\$31,328,751	\$33,185,124	\$35,693,095	\$38,199,407	\$40,188,481	\$42,045,107	\$50,539,748
Interior Budget Authority.....	-\$78,928	-\$74,864	-\$77,345	-\$77,349	-\$77,252	-\$77,337	-\$77,342	-\$78,988	-\$80,993	-\$81,500	-\$83,540
Total, NIH Labor/HHS Budget Authority.....	\$30,623,259	\$28,911,870	\$29,802,460	\$29,353,625	\$31,251,499	\$33,107,787	\$33,021,788	\$38,120,419	\$40,107,488	\$41,963,607	\$50,456,208

¹ Excludes Ebola, Zika and other supplemental funding or transfers.

² Includes Special type 1 Diabetes Research mandatory account funding (through FY 2021). FY 2020 includes carryover of \$123,707,707 from FY 2018 and \$76,493,143 from FY 2019.

³ Includes PHS Program Evaluation financing of \$715,000,000 in FY 2015, \$780,000,000 in FY 2016, \$824,443,000 in FY 2017, \$922,871,000 in FY 2018, \$1,146,821,000 in FY 2019, \$1,230,821,000 in FY 2020 and \$1,271,505,000 in FY 2021 and FY 2022.

⁴ Includes Interior Appropriation allocation for Superfund Research activities.

⁵ Includes PHS Program Evaluation financing of \$8,200,000 for years before FY 2015.

⁶ Includes funds under the 21st Century Cures Act.

⁷ Includes obligations of \$60,647,563 of 21st Century Cures carryover from FY 2017.

⁸ Includes obligations of \$429,883,740 of FY 2018 Opioids carryover in various ICs and \$42,852,637 of 21st Century Cures carryover from FY 2017 and FY 2018 in various ICs and \$415,197 of T1D carryover.

⁹ Includes CURES carryover obligations of \$230,278,992

¹⁰ Amounts represent estimated or requested budget authority as opposed to obligations displayed in historical years.

¹¹ The FY 2022 Budget proposes a new Advanced Research Projects Agency for Health (ARPA-H).

HISTORY OF OBLIGATIONS BY TOTAL MECHANISM

(Dollars in Thousands) ¹	FY 2012 Actual	FY 2013 Actual	FY 2014 Actual	FY 2015 Actual ⁴	FY 2016 Actual ⁴	FY 2017 Actual ⁴	FY 2018 Actual ^{4,5}	FY 2019 Actual ^{4,6}	FY 2020 Actual ^{4,7}	FY 2021 Enacted ^{4,8}	FY 2022 President's Budget ^{4,9,10}
Research Project Grants.....	\$16,550,486	\$15,445,463	\$16,168,246	\$16,441,843	\$17,839,691	\$19,105,304	\$20,756,893	\$22,493,313	\$23,744,187	\$24,876,534	\$26,227,757
Research Centers.....	\$3,040,375	\$2,708,744	\$2,723,203	\$2,663,064	\$2,573,774	\$2,536,308	\$2,581,750	\$2,680,161	\$2,713,731	\$2,791,905	\$2,872,575
Other Research.....	\$1,808,138	\$1,783,481	\$1,846,841	\$1,802,719	\$2,019,736	\$2,181,261	\$2,371,164	\$2,698,036	\$2,753,289	\$3,010,048	\$3,096,571
Subtotal, Research Grants.....	\$21,398,999	\$19,937,688	\$20,738,290	\$20,907,625	\$22,433,201	\$23,822,873	\$25,709,807	\$27,871,510	\$29,211,207	\$30,678,487	\$32,196,903
Research Training.....	\$761,934	\$733,524	\$738,429	\$758,017	\$803,869	\$827,397	\$855,844	\$865,305	\$907,010	\$951,864	\$1,019,196
R & D Contracts.....	\$2,937,188	\$2,927,077	\$2,990,037	\$2,826,971	\$2,913,224	\$3,046,759	\$3,072,406	\$3,124,750	\$3,283,765	\$3,440,135	\$3,561,276
Intramural Research.....	\$3,401,506	\$3,247,193	\$3,373,601	\$3,409,362	\$3,682,831	\$3,780,181	\$3,972,054	\$4,179,250	\$4,462,022	\$4,595,200	\$4,695,985
Res. Mgt. & Support.....	\$1,530,874	\$1,485,575	\$1,527,131	\$1,619,784	\$1,653,230	\$1,747,406	\$1,813,738	\$1,886,087	\$1,974,360	\$2,090,641	\$2,184,166
Office of the Director ²	\$609,530	\$608,584	\$477,293	\$573,328	\$599,263	\$701,864	\$1,016,633	\$1,185,155	\$1,467,130	\$1,398,785	\$1,431,636
Subtotal.....	\$30,640,031	\$28,939,641	\$29,844,781	\$30,095,088	\$32,085,618	\$33,928,465	\$36,440,482	\$39,112,057	\$41,305,493	\$43,155,112	\$45,089,163
Buildings & Facilities ³	\$133,228	\$114,580	\$96,880	\$123,464	\$95,883	\$143,415	\$124,434	\$229,107	\$138,709	\$230,000	\$280,000
Interior- Superfund.....	\$78,928	\$74,864	\$77,345	\$77,332	\$77,252	\$77,337	\$77,342	\$78,988	\$80,993	\$81,500	\$83,540
ARPA-H.....	---	---	---	---	---	---	---	---	---	---	\$6,500,000
Total.....	\$30,852,187	\$29,129,085	\$30,019,005	\$30,295,884	\$32,258,753	\$34,149,217	\$36,642,258	\$39,420,151	\$41,525,195	\$43,466,612	\$51,952,703

¹ Obligations for actual years exclude lapse. Amounts for all years include Special Type 1 Diabetes. All Subtotal and Total numbers may not add due to rounding. FY 2017 through FY 2021 includes 21st Century Cures Act funding. All years exclude Ebola-related and supplemental funding.

² Excludes obligations for the Common Fund and the Office of Research Infrastructure Programs, which are distributed by mechanism.

³ Includes B&F appropriation and monies allocated (\$18,000,000 in FY 2018, \$18,000,000 in FY 2019, \$30,000,000 in FY 2020, \$30,000,000 in FY 2021, and \$30,000,000 in FY 2022) pursuant to appropriations acts provisions that funding may be used for facilities repairs and improvements at the NCI Federally funded Research and Development Center in Frederick, Maryland.

⁴ Includes Program Evaluation Financing resources of \$715,000,000 in FY 2015, \$780,000,000 in FY 2016, \$824,443,000 in FY 2017, \$922,871,000 in FY 2018, \$1,146,821,000 in FY 2019, \$1,230,821,000 in FY 2020, \$1,271,505,000 in FY 2021 and \$1,271,505,000 in FY 2022.

⁵ Includes obligations of \$60,647,563 of 21st Century Cures Act funding which was appropriated in FY 2017, but carried over into FY 2018.

⁶ Includes obligations of \$42,852,637 of 21st Century Cures Act funding which was appropriated in FY 2017 and FY 2018, but carried over into FY 2019. Similarly, includes \$429,883,740 of Opioids funding and \$415,917 of Type 1 Diabetes funding carried over from FY 2018. Obligations of carryover funding are distributed by mechanism.

⁷ Includes obligations of \$230,278,992 of 21st Century Cures Act funding which was appropriated in FY 2017 through FY 2019, but carried over into FY 2020. Similarly, includes \$200,200,850 of Type 1 Diabetes funding carried over from FY 2018 and FY 2019. Obligations of carryover funding are distributed by mechanism.

⁸ Includes estimated obligations of \$268,290,203 of 21st Century Cures Act funding which was appropriated in FY 2017 through FY 2020, but carried over into FY 2021. Similarly, includes \$244,692,931 of Type 1 Diabetes funding carried over from FY 2018 through FY 2020. Obligations of carryover funding are distributed by mechanism.

⁹ The FY 2022 Budget proposes a new Advanced Research Projects Agency for Health (ARPA-H).

¹⁰ FY 2022 figures based on requested budget authority.

STATISTICAL DATA: DIRECT AND INDIRECT COSTS AWARDED

(Dollars in Thousands)	Direct Cost Awarded	Indirect Cost Awarded	Percent of Total		Percent Change	
			Direct Cost Awarded	Indirect Cost Awarded	Direct Cost Awarded	Indirect Cost Awarded
FY 2010	\$16,040,991	\$6,193,567	72.1%	27.9%	2.3%	2.8%
FY 2011	\$15,849,082	\$6,173,769	72.0%	28.0%	-1.2%	-0.3%
FY 2012	\$15,978,032	\$6,182,900	72.1%	27.9%	0.8%	0.2%
FY 2013	\$14,915,599	\$5,755,617	72.2%	27.8%	-6.7%	-6.9%
FY 2014	\$15,568,553	\$5,908,275	72.5%	27.5%	4.4%	2.7%
FY 2015	\$15,645,282	\$6,020,843	72.2%	27.8%	0.5%	1.9%
FY 2016	\$16,791,158	\$6,445,133	72.3%	27.7%	7.3%	7.1%
FY 2017 ¹	\$17,799,515	\$6,838,801	72.2%	27.8%	6.0%	6.1%
FY 2018 ^{1,3}	\$19,599,758	\$7,481,452	72.4%	27.6%	10.1%	9.4%
FY 2019 ^{1,2}	\$20,544,931	\$7,953,747	72.1%	27.9%	4.8%	6.3%
FY 2020 Final ^{*,1}	\$21,971,965	\$8,436,254	72.3%	27.7%	7.0%	6.1%
FY 2021 Enacted ^{*,1}	\$22,627,128	\$8,659,196	72.3%	27.7%	3.0%	2.6%
FY 2022 President's Budget ^{a,1}	\$24,008,509	\$9,207,590	72.3%	27.7%	6.9%	7.1%

Note: Data for fiscal years 2021 and later represent estimates and will change as actual data are received.

¹ Includes 21st Century Cures Act funding.

² Figures include estimates of BA carried over into later years.

³ Figures reflect BA carried over into later years.

* To make the figures for FY 2020 and FY 2021 comparable to FY 2022, the costs of awards for the ECHO & INCLUDE programs have been added to the NICHD mechanism tables for those years, adding \$236.5 and \$239.6 million to the total NIH award amounts, respectively. As a result, the "Percent of Total" figures in the comparable case differ by less than about 0.015% from the not-comparable case.

^a Figures do not include any awards related to the proposed ARPA-H program.

RPGS – TOTAL NUMBER OF AWARDS AND FUNDING

(Dollars in Thousands)	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
					Final ³	Final ^{3,5}	Final ^{3,4}	Final Allocation ^{*,3}	Enacted ^{*,3}	President's Budget ^{*,3}
No. of Awards:										
Competing	8,234	9,168	9,540	10,364	10,123	11,116	11,020	11,395	11,189	12,664
Noncompeting	25,140	23,504	23,261	23,528	24,638	25,780	27,624	28,415	29,040	29,718
Subtotal	33,374	32,672	32,801	33,892	34,761	36,896	38,644	39,810	40,229	42,382
SBIR/STTR	1,466	1,660	1,578	1,689	1,807	2,034	2,023	1,833	1,854	1,961
Total	34,840	34,332	34,379	35,581	36,568	38,930	40,667	41,643	42,083	44,343
Average Annual Cost:										
Competing RPGs	\$418	\$489	\$452	\$484	\$522	\$527	\$573	\$561	\$580	\$568
Total RPGs ¹	444	474	479	502	523	546	552	574	582	590
Percent Change in Average										
Cost from Prior Year²										
Competing RPGs	-0.8%	17.0%	-7.5%	7.2%	7.8%	1.0%	8.7%	-2.0%	3.4%	-2.1%
Total RPGs ¹	-3.3%	6.7%	1.2%	4.8%	4.0%	4.4%	1.1%	4.1%	1.3%	1.4%
Average Length										
of Award in Years	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6

NOTE: Includes awards supported by the Common Fund program (for all years) and the Type 1 Diabetes mandatory account.

¹ Includes Noncompeting RPGs and Administrative Supplements. Excludes SBIR/STTR awards.

² Based on average costs in whole dollars.

³ Includes 21st Century Cures Act funding.

⁴ Figures include estimates of BA carried over into later years.

⁵ Figures reflect BA carried over into later years.

* To make the figures for FY 2020 and FY 2021 comparable to FY 2022, RPG awards and dollars for the ECHO & INCLUDE programs have been added to the NICHD mechanism tables for those years, adding 58 and 72 RPGs and \$175.8 and \$175.6 million to the NIH-total figures, respectively.

^a Figures do not include any awards related to the proposed ARPA-H program.

RPGS – SUCCESS RATES

INSTITUTES & CENTERS ^{+,1,2}	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017 Final ⁶	FY 2018 Final ^{6,8}	FY 2019 Final ^{6,7}	FY 2020 Final Allocation ^{*,6}	FY 2021 Enacted ^{*,6}	FY 2022 President's Budget ^{6,a}
NCI	13.7%	14.1%	13.0%	12.0%	11.7%	11.3%	11.9%	12.9%	13.4%	13.3%
NHLBI	16.9%	18.2%	21.9%	24.2%	23.5%	25.1%	22.3%	22.2%	21.1%	21.8%
NIDCR	19.9%	21.5%	22.0%	19.9%	17.8%	22.2%	23.8%	21.7%	24.5%	27.3%
NIDDK	21.0%	22.9%	20.3%	20.1%	17.8%	21.6%	20.3%	24.4%	24.2%	26.5%
NINDS	19.8%	18.7%	20.5%	19.8%	17.7%	22.4%	20.4%	23.7%	20.5%	22.1%
NIAID	18.8%	22.0%	21.5%	23.8%	19.1%	22.9%	22.1%	23.9%	22.2%	23.9%
NIGMS	19.9%	24.8%	29.6%	29.6%	30.6%	29.2%	32.6%	32.3%	33.2%	24.7%
NICHHD [*]	10.8%	12.5%	11.5%	13.2%	16.1%	18.4%	19.5%	18.8%	20.8%	21.8%
NEI	23.7%	26.7%	21.4%	25.7%	24.9%	26.7%	28.4%	29.6%	26.2%	27.2%
NIEHS	15.3%	15.0%	14.7%	14.2%	15.0%	17.1%	14.8%	14.2%	15.9%	35.7%
NIA	13.6%	15.9%	17.7%	22.8%	26.6%	28.9%	29.2%	25.8%	27.5%	26.1%
NIAMS	15.9%	18.1%	16.7%	16.0%	17.0%	16.7%	17.1%	18.0%	17.5%	22.2%
NIDCD	22.5%	25.8%	24.9%	26.7%	24.4%	27.1%	25.2%	24.2%	21.7%	22.3%
NIMH	18.7%	19.4%	20.4%	22.9%	20.9%	22.2%	24.8%	22.5%	21.1%	21.9%
NIDA	19.5%	18.0%	19.6%	15.4%	19.7%	19.4%	17.5%	16.9%	12.0%	33.7%
NIAAA	19.5%	19.2%	16.4%	18.8%	22.0%	26.7%	20.9%	21.4%	17.8%	24.5%
NINR	9.1%	11.6%	8.0%	9.0%	8.9%	10.3%	9.3%	10.8%	10.2%	16.6%
NHGRI	20.5%	17.7%	18.8%	25.6%	23.9%	28.0%	19.2%	21.8%	18.6%	13.1%
NIBIB	13.7%	13.1%	12.0%	14.6%	13.0%	16.8%	18.3%	19.8%	15.7%	17.0%
NIMHD	4.3%	11.9%	13.7%	19.3%	21.5%	10.7%	7.5%	7.9%	12.1%	41.6%
NCCIH ³	11.6%	8.7%	10.8%	13.9%	16.7%	20.3%	12.5%	11.6%	12.3%	22.5%
NCATS ⁴	N/A	16.7%	66.7%	27.7%	21.8%	36.4%	20.7%	25.2%	21.5%	28.0%
FIC	14.6%	9.1%	9.7%	29.5%	10.8%	19.5%	20.6%	19.7%	15.7%	25.4%
NLM	12.3%	19.4%	19.8%	13.0%	14.9%	17.7%	18.4%	13.4%	14.2%	12.1%
ORIP & SEPA ⁵	20.0%	19.6%	21.5%	18.8%	16.5%	17.8%	34.2%	29.6%	29.2%	29.2%
Common Fund	9.2%	10.0%	12.1%	12.6%	11.8%	10.9%	11.0%	9.5%	8.8%	6.5%
NIH	16.7%	18.0%	18.3%	19.1%	18.7%	20.3%	20.1%	20.7%	20.1%	22.1%

⁺ Success Rates identified in FY 2021 and beyond are estimates, and will change as applications are received and selected for funding.

¹ Application success rates represent the percentage of applications that are awarded during the fiscal year.

² Includes Special type 1 Diabetes Research program administered by NIDDK. Excludes NIEHS Superfund Research and OD Other awards.

³ The National Center for Complementary and Alternative Medicine (NCCAM) was renamed in December 2014 to the National Center for Complementary and Integrative Health (NCCIH).

⁴ The National Center for Advancing Translational Sciences (NCATS) was established concurrent with the dissolution of National Center for Research Resources (NCRR) effective FY 2012.

⁵ The SEPA program transitioned to NIGMS in FY 2017 from the NIH Office of Research Infrastructure Program (ORIP).

⁶ Includes 21st Century Cures Act funding.

⁷ Figures include estimates of BA carried over into later years.

⁸ Figures reflect BA carried over into later years.

^{*} To make the success rates for FY 2020 and FY 2021 comparable to FY 2022, competing RPG awards for the ECHO & INCLUDE programs have been added to the NICHHD mechanism tables for those years. Those tables include 22 and 20 competing awards, respectively. Application counts are not adjusted. Those competing awards increase the success rates for NICHHD in those years by about 0.8%, whereas the NIH total success rate remains unchanged, to within the displayed digits.

^a Figures do not include any awards or applications related to the proposed ARPA-H program.

TOTAL R01 EQUIVALENT DATA FOR FIRST TIME AND ESTABLISHED INVESTIGATORS

R01 Equivalent Grants^{X,1,2,3,4,5}	FY 2020 Final Allocation[*]	FY 2021 Enacted[*]	FY 2022 President's Budget^a
Applications			
Received.....	37,413	39,248	41,961
Funded.....	8,169	8,321	9,773
Total Investigators			
Received.....	32,888	34,598	36,992
Funded.....	9,962	10,234	12,127
Established Investigators			
Received.....	20,442	21,203	22,535
Funded.....	7,231	7,300	8,628
First-time Investigators			
Received.....	12,446	13,395	14,457
Funded.....	2,731	2,934	3,499

^X R01 Equivalent Grants form a subset of all RPG awards. In FY 2020 they comprised roughly 72% of Funded Applications, 75% of Funded Total Investigators, 84% of Funded Established Investigators and 59% of Funded First-time Applicants.

¹ Grant data is based on linear extrapolation of five years of latest actual data.

² Excludes applications and awards associated with reimbursable agreements and Superfund Research.

³ Estimates for received applications reflect consolidations of Institute/Center validated refinements to linear extrapolation of five years of latest actual data.

⁴ Includes 21st Century Cures Act funding.

⁵ Figures include estimates of BA carried over into later years.

^{*} To make the figures for FY 2020 and FY 2021 comparable to FY 2022, RPG awards for the ECHO & INCLUDE programs have been added to the NICHD mechanism tables for those years. As a result the comparable figures for FY 2020 and FY 2021 are slightly larger than the non-comparable figures: 1) there are about 15 more Funded Applications, and 2) there are about 19 more Funded Investigators (5 of which are First-time Investigators).

^a Figures do not include any applications or awards related to the proposed ARPA-H program.

COMPETING RPGS BY LENGTH OF AWARD

(Dollars in Thousands)	FY 2020		FY 2021		FY 2022	
	Final Allocation *		Enacted *		President's Budget ^a	
	No.	Amount	No.	Amount	No.	Amount
Competing RPGs:^{1,2}						
One-Year Awards.....	1,671	\$1,424,460	1,293	\$1,346,182	1,463	\$1,491,126
Two-Year Awards.....	2,210	\$500,099	2,535	\$601,442	2,869	\$666,200
Three-Year Awards.....	445	\$252,864	505	\$307,578	571	\$340,696
Four-Year Awards.....	2,033	\$1,123,379	2,069	\$1,191,495	2,341	\$1,319,784
Five or More Year Awards.....	5,036	\$3,095,069	4,787	\$3,046,006	5,420	\$3,373,973
Total Competing RPGs.....	11,395	\$6,395,871	11,189	\$6,492,703	12,664	\$7,191,779

¹ The distribution of awards with durations of 1, 2, 3, 4 and 5+ years is based on historical data.

² Includes 21st Century Cures Act funding.

* To make the figures for FY 2020 and FY 2021 comparable to FY 2022, RPG awards for the ECHO & INCLUDE programs have been added to the NICHD mechanism table for those years, adding 22 and 20 competing RPGs and \$38.6 and \$35.7 million to the NIH-total figures, respectively.

^a Figures do not include any awards related to the proposed ARPA-H program.

NON-COMPETING COMMITMENTS

(Dollars in Thousands)	FY 2020 Final Allocation ^{*4}	FY 2021 Enacted ^{*4}	FY 2022 President's Budget ^{a,4}
Research Project Grants (RPGs)			
Noncompeting:			
Number.....	28,415	29,040	29,718
Amount.....	\$15,903,452	\$16,402,139	\$17,350,182
Administrative Supp.....	\$555,090	\$509,636	\$456,192
Competing:			
Number.....	11,395	11,189	12,664
Amount.....	\$6,395,871	\$6,492,703	\$7,191,779
SBIR/STTR:			
Number.....	1,833	1,854	1,961
Noncompeting.....	944	810	780
Amount ¹	\$1,127,734	\$1,154,534	\$1,229,604
Noncompeting.....	\$581,069	\$504,224	\$488,957
Subtotal, RPGs:			
Number.....	41,643	42,083	44,343
Amount.....	\$23,982,147	\$24,559,013	\$26,227,757
Research Centers:			
Number.....	1,211	1,267	1,306
Noncompeting.....	985	889	1,033
Amount.....	\$2,708,120	\$2,778,539	\$2,872,575
Noncompeting.....	\$2,203,389	\$1,949,775	\$2,272,126
Other Research:			
Number.....	7,330	7,559	7,888
Noncompeting.....	5,798	5,015	6,203
Amount.....	\$2,810,700	\$2,996,908	\$3,096,571
Noncompeting.....	\$2,223,230	\$1,988,488	\$2,435,118
Training:			
FITPs.....	17,008	17,555	17,949
Noncompeting.....	12,588	13,555	13,288
Amount.....	\$907,252	\$951,864	\$1,019,196
Noncompeting.....	\$671,492	\$734,993	\$754,546
Total Extramural Research².....			
	\$30,408,219	\$31,286,324	\$33,216,099
Noncompeting Number/FITPs.....	48,730	49,309	51,022
Competing Number/FITPs.....	18,462	19,155	20,464
Noncompeting Amount.....	\$22,137,722	\$22,089,255	\$23,757,121
Competing Amount.....	\$8,270,497	\$9,197,069	\$9,458,978
Total Percent Change.....	6.7%	2.9%	6.2%
Total Discretionary Budget Authority³.....	\$41,535,000	\$42,785,500	\$45,311,253
Percent Change.....	6.4%	3.0%	5.9%

¹ The 3.65% combined SBIR/STTR program threshold is achieved in FY 2020 and sustained in subsequent years.

² Includes both grants and FITPs for Noncompeting and Competing numbers.

³ Includes Labor/HHS appropriations, the Interior Superfund Research account, 21st Century Cures Act funding, as well as Program Evaluation financing resources. Excludes mandatory accounts such as Type 1 Diabetes.

⁴ Includes 21st Century Cures Act funding.

* To make the figures for FY 2020 and FY 2021 comparable to FY 2022, competing and noncompeting awards for the ECHO & INCLUDE programs have been added to the NICHD mechanism tables for those years. The only significant differences are for the RPGs and Other Research mechanisms, for which the award totals in the comparable case are about 0.8% and 2.2% larger than in the non-comparable case, respectively.

^a Figures exclude awards and total discretionary budget authority related to the proposed ARPA-H program.

MF GENERAL STATEMENT

The NIH Management Fund (MF) was established on June 29, 1957, by Public Law 85-67. The MF was created to finance a variety of centralized support services and administrative activities that are required for the efficient and effective operation of all NIH programs and facilities. The services provided by the MF include a research hospital and outpatient clinic; receipt, review and referral of research and training grant applications; and police, fire, security, and general administrative support services. The MF is financed through offsetting collections from the NIH Institutes and Centers representing charges for services provided. Funds credited to the NIH Management Fund remain available for one fiscal year after the fiscal year in which they are deposited.

MF BUDGET AUTHORITY BY ACTIVITY

Budget Authority by Activity
(Dollars in thousands)

	FY 2020 Final		FY 2021 Enacted		FY 2022 President's Budget		Change	
	<u>FTEs</u>	<u>Amount</u>	<u>FTEs</u>	<u>Amount</u>	<u>FTEs</u>	<u>Amount</u>	<u>FTEs</u>	<u>Amount</u>
<u>Detail:</u>								
Clinical Center	1,883	\$604,145	1,995	\$651,872	2,035	\$684,466	40	\$32,594
Center for Scientific Review	409	128,341	422	128,597	427	135,027	5	6,430
Office of Research Services, Development & Operations and Administrative services	258	80,851	272	81,094	272	85,149	0	4,055
TOTAL	2,550	\$813,337	2,689	\$861,563	2,734	\$904,642	45	\$43,079

MF BUDGET AUTHORITY BY OBJECT CLASS

(Dollars in thousands)

	2021 Enacted	FY 2022 President's Budget	Increase or Decrease
Total compensable workyears:			
Full-time employment	2,689	2,734	45
Full-time equivalent of overtime and holiday hours	0	0	0
Average ES salary	\$194	\$194	1
Average GM/GS grade	11.3	11.3	0
Average GM/GS salary	\$109	\$112	3
Average salary, grade established by act of July 1, 1944 (42 U.S.C. 207)	\$110	\$113	3
Average salary of ungraded positions	104	107	3
OBJECT CLASSES	FY 2021 Enacted	FY 2022 President's Budget	Increase or Decrease
Personnel Compensation:			
11.1 Full-time permanent	\$224,186	\$238,457	\$14,271
11.3 Other than full-time permanent	43,897	44,896	999
11.5 Other personnel compensation	27,007	28,588	1,581
11.7 Military personnel	6,291	6,466	175
11.8 Special personnel services payments	6,743	6,897	154
Total, Personnel Compensation	308,124	325,304	17,180
12.0 Personnel benefits	99,920	107,856	7,936
12.2 Military personnel benefits	4,235	4,352	117
13.0 Benefits for former personnel	0	0	0
Subtotal, Pay Costs	412,279	437,512	25,233
21.0 Travel and transportation of persons	1,650	1,724	74
22.0 Transportation of things	750	781	31
23.1 Rental payments to GSA	236	247	11
23.2 Rental payments to others	10	10	0
23.3 Communications, utilities and miscellaneous charges	4,850	5,044	194
24.0 Printing and reproduction	12	12	0
25.1 Consulting services	37,235	37,607	372
25.2 Other services	129,483	129,533	50
25.3 Purchase of goods and services from government accounts	77,093	81,129	4,036
25.4 Operation and maintenance of facilities	8,417	9,157	740
25.5 Research and development contracts	37	39	2
25.6 Medical care	11,934	12,829	895
25.7 Operation and maintenance of equipment	25,849	28,305	2,456
25.8 Subsistence and support of persons	35	36	1
25.0 Subtotal, Other Contractual Services	290,083	298,635	8,552
26.0 Supplies and materials	124,161	130,990	6,829
31.0 Equipment	24,250	26,190	1,940
32.0 Land and structures	3,260	3,475	215
33.0 Investments and loans	0	0	0
41.0 Grants, subsidies and contributions	0	0	0
42.0 Insurance claims and indemnities	0	0	0
43.0 Interest and dividends	22	22	0
44.0 Refunds	0	0	0
Subtotal, Non-Pay Costs	449,284	467,130	17,846
Total Budget Authority by Object	861,563	904,642	43,079

MF DETAIL OF POSITIONS

GRADE	FY 2020 Final	FY 2021 Enacted	FY 2022 President's Budget
Total, ES Positions	4	4	4
Total, ES Salary	\$763,595	\$774,658	\$776,599
GM/GS-15	110	115	116
GM/GS-14	330	336	339
GM/GS-13	367	383	391
GS-12	530	482	491
GS-11	478	480	488
GS-10	35	34	35
GS-9	113	119	121
GS-8	100	99	100
GS-7	217	224	227
GS-6	47	49	53
GS-5	26	21	22
GS-4	8	9	9
GS-3	10	7	8
GS-2	3	3	2
GS-1	1	1	1
Subtotal	2,375	2,362	2,403
Commissioned Corps (42 U.S.C. 207)			
Assistant Surgeon General	0	0	0
Director Grade	14	13	13
Senior Grade	16	14	14
Full Grade	13	13	13
Senior Assistant Grade	15	15	15
Assistant Grade	1	1	1
Subtotal	59	56	56
Ungraded	285	245	249
Total permanent positions	2,413	2,455	2,461
Total positions, end of year	2,723	2,667	2,712
Total full-time equivalent (FTE) employment, end of year	2,550	2,689	2,734
Average ES salary	190,899	193,664	194,150
Average GM/GS grade	11.3	11.3	11.3
Average GM/GS salary	103,149	108,728	111,664

SSF GENERAL STATEMENT

The NIH Service and Supply Fund (SSF) was established on July 3, 1945, under 42 U.S.C. 231. The SSF was created to finance a variety of centralized research support services and administrative activities that are required for the efficient and effective operation of all NIH programs and facilities. The SSF provides a single means for consolidating the financing and accounting of business-type operations, including the sales of services and commodities to customers. The services provided through the SSF include mainframe computing, enterprise IT software planning and development, facilities engineering, planning and design, facility use and maintenance including leased buildings, printing, telecommunications, procurement, shipping and receiving, motor pool, research animals, fabrication and maintenance of scientific equipment, utilities and plant maintenance, finance and accounting operations, government-wide contracting for IT, biomedical engineering, security, consolidated human resources, collaborative computer science research, and other administrative support services. The SSF is financed through offsetting collections from the NIH Institutes and Centers representing charges for goods and services provided.

SSF Budget Authority by Activity

Budget Authority by Activity
(Dollars in thousands)

	FY 2020 Final		FY 2021 Enacted		FY 2022 President's Budget		Change	
	FTEs	Amount	FTEs	Amount	FTEs	Amount	FTEs	Amount
Detail:								
Research Support and Administrative (OD & includes CIF, ORS)	1,046	\$1,493,350	1,108	\$1,581,458	1,118	\$1,660,519	10	\$79,061
Office of Research Facilities Development & Operations (ORF)	716	552,212	726	584,793	726	614,032	0	29,240
Information Technology (CIT)	227	403,821	257	427,647	257	449,029	0	21,382
TOTAL	1,989	\$2,449,384	2,091	\$2,593,898	2,101	\$2,723,581	10	\$129,683

SSF BUDGET AUTHORITY BY OBJECT

(Dollars in Thousands)

	FY 2021 Enacted	FY 2022 President's Budget	Increase or Decrease
Total compensable workyears:			
Full-time employment	2,091	2,101	10
Full-time equivalent of overtime and holiday hours	0	0	0
Average ES salary	\$196	\$199	3
Average GM/GS grade	12.2	12.3	0
Average GM/GS salary	\$117	\$120	3
Average salary, grade established by act of July 1, 1944 (42 U.S.C. 207)	\$105	\$107	2
Average salary of ungraded positions	147	150	3
OBJECT CLASSES	FY 2021 Enacted	FY 2022 President's Budget	Increase or Decrease
Personnel Compensation:			
11.1 Full-time permanent	\$215,183	\$228,881	\$13,699
11.3 Other than full-time permanent	8,381	8,572	191
11.5 Other personnel compensation	11,798	12,489	691
11.7 Military personnel	3,207	3,296	89
11.8 Special personnel services payments	29	29	1
Total, Personnel Compensation	238,597	253,267	14,670
12.0 Personnel benefits	85,631	92,433	6,801
12.2 Military personnel benefits	1,629	1,674	45
13.0 Benefits for former personnel	1,218	1,218	0
Subtotal, Pay Costs	327,075	348,591	21,516
21.0 Travel and transportation of persons	218	240	22
22.0 Transportation of things	4,761	4,761	0
23.1 Rental payments to GSA	58,912	58,912	0
23.2 Rental payments to others	61,999	61,999	0
23.3 Communications, utilities and miscellaneous charges	97,040	99,951	2,911
24.0 Printing and reproduction	2	2	0
25.1 Consulting services	29,912	30,959	1,047
25.2 Other services	1,175,342	1,232,307	56,965
25.3 Purchase of goods and services from government accounts	380,078	404,638	24,561
25.4 Operation and maintenance of facilities	152,820	168,102	15,282
25.5 Research and development contracts	316	316	0
25.6 Medical care	2,857	2,914	57
25.7 Operation and maintenance of equipment	173,649	177,122	3,473
25.8 Subsistence and support of persons	0	0	0
25.0 Subtotal, Other Contractual Services	1,914,972	2,016,357	101,385
26.0 Supplies and materials	52,722	55,885	3,163
31.0 Equipment	34,279	34,965	686
32.0 Land and structures	41,725	41,725	0
33.0 Investments and loans	0	0	0
41.0 Grants, subsidies and contributions	0	0	0
42.0 Insurance claims and indemnities	0	0	0
43.0 Interest and dividends	194	194	0
44.0 Refunds	0	0	0
Subtotal, Non-Pay Costs	2,266,824	2,374,991	108,167
Total Budget Authority by Object	2,593,897	2,723,581	129,684

SSF DETAIL OF POSITIONS

GRADE	FY 2020 Final	FY 2021 Enacted	FY 2022 President's Budget
Total, ES Positions	6	7	7
Total, ES Salary	\$1,169,410	\$1,374,485	\$1,395,715
GM/GS-15	96	107	112
GM/GS-14	314	336	346
GM/GS-13	637	665	674
GS-12	291	304	306
GS-11	120	128	129
GS-10	7	7	7
GS-9	100	105	106
GS-8	20	21	21
GS-7	51	54	54
GS-6	6	6	6
GS-5	9	10	10
GS-4	16	15	15
GS-3	14	9	9
GS-2	10	6	6
GS-1	9	6	6
Subtotal	1,700	1,779	1,807
Commissioned Corps (42 U.S.C. 207)			
Assistant Surgeon General	0	0	0
Director Grade	7	7	7
Senior Grade	7	7	7
Full Grade	11	11	11
Senior Assistant Grade	3	3	3
Assistant Grade	1	1	1
Subtotal	29	29	29
Ungraded	328	337	339
Total permanent positions	1,982	2,037	2,062
Total positions, end of year	2,063	2,152	2,182
Total full-time equivalent (FTE) employment, end of year	1,989	2,091	2,101
Average ES salary	194,902	196,355	199,388
Average GM/GS grade	12.1	12.2	12.3
Average GM/GS salary	113,726	116,882	120,052

DIGITAL MODERNIZATION

Modernization of the Public-Facing Digital Services – 21st Century Integrated Digital Experience Act

The 21st Century Integrated Digital Experience Act (IDEA) was signed into law on Dec. 20, 2018. It requires data-driven, user-centric website and digital services modernization, website consolidation, and website design consistency in all Executive Agencies. Departments across the federal landscape are working to implement innovative digital communications approaches to increase efficiency and create more effective relationships with their intended audiences. The American public expects instant and impactful communications – desired, trusted content available when they want it, where they want it, and in the format they want it. If the consumer is not satisfied they move on and the opportunity for impact is lost.

Modernization Efforts

In FY 2019, HHS engaged Department leadership and developed a Digital Communications Strategy that aligns with the requirements of IDEA. In FY 2020, HHS Digital Communications Leaders began implementation of the Strategy in alignment with IDEA, beginning to align budgets to modernization requirements.

As the result of a comprehensive review of costs associated with website development, maintenance, and their measures of effectiveness, HHS will prioritize:

- modernization needs of websites, including providing unique digital communications services, and
- continuing to developing estimated costs and impact measures for achieving IDEA.

Over the next four years, HHS will continue to implement IDEA by focusing extensively on a user-centric, Digital First approach to both external and internal communications and developing performance standards. HHS will focus on training, hiring, and tools that drive the communication culture change necessary to successfully implement IDEA.

Over the next year, HHS Agencies and Offices will work together to continue to implement IDEA and the HHS Digital Communications Strategy across all communications products and platforms.

