



FY 2005 DATA BOOK

Extramural Loan Repayment Programs

NIH Division of Loan Repayment

Revised: March 1, 2014

Fiscal Year 2005 Highlights

Fiscal Year period covers
October 1, 2004 to September 30, 2005

Application Cycle:

September 1 - December 15, 2004

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Note: Numbers and statistics reported on the program are the result of a consistent methodology established by the revision date of this document. Documents published previously may show slight discrepancies.

NIH Institutes and Centers*

Institutes

National Cancer Institute (NCI)
National Eye Institute (NEI)
National Heart, Lung, and Blood Institute (NHLBI)
National Human Genome Research Institute (NHGRI)
National Institute on Aging (NIA)
National Institute on Alcohol Abuse and Alcoholism (NIAAA)
National Institute of Allergy and Infectious Diseases (NIAID)
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)
National Institute of Biomedical Imaging and Bioengineering (NIBIB)
***Eunice Kennedy Shriver* National Institute of Child Health and Human Development (NICHD)**
National Institute on Deafness and Other Communication Disorders (NIDCD)
National Institute of Dental and Craniofacial Research (NIDCR)
National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
National Institute on Drug Abuse (NIDA)
National Institute of Environmental Health Sciences (NIEHS)
National Institute of General Medical Sciences (NIGMS)
National Institute of Mental Health (NIMH)
National Institute of Neurological Disorders and Stroke (NINDS)
National Institute of Nursing Research (NINR)
National Library of Medicine (NLM)

Centers

John E. Fogarty International Center (FIC)
National Center for Complementary and Alternative Medicine (NCCAM)
National Center for Research Resources (NCRR)

* Participating in the Extramural Loan Repayment Programs

The Year in Review

In Fiscal Year (FY) 2005, 3,290 individuals applied to the five Extramural Loan Repayment Programs (LRPs): Clinical Research, Pediatric Research, Health Disparities Research, Clinical Research for Individuals from Disadvantaged Backgrounds, and Contraception and Infertility Research. Of those applicants, 1,600 were awarded contracts in the amount of \$71,540,788 overall. The success rate for the Extramural LRPs across NIH was 49 percent.

The LRP with the largest number of applications was the Extramural Clinical Research LRP which received 1,948 (or 59 percent) of all applications.

Approximately 59 percent of Extramural Clinical Research LRP contracts were funded.

New applicants (those not previously funded) constituted 65 percent of all applications while renewal applicants (those previously funded) comprised 35 percent of all applicants. Success rates for new and renewal applicants were 38 and 68 percent, respectively.

The LRPs are open to health professionals with doctoral degrees or advanced certifications with different levels of experience and at different stages in their careers. Many of FY 2005 awardees were fairly early in their careers, with 55 percent having received their post-graduate degrees within the previous 5 years, and 91 percent within the past 10 years.

MDs (including those with MD/PhD degrees) comprised 58 percent of the 1,600 awardees, while those with PhDs (including those with PhDs and any combined degree other than MD) comprised 37 percent of the total awards.

The educational debt level of 66 percent of the 1,600 awardees was greater than \$50,000 with approximately 5 percent having debt levels greater than \$200,000.

Men and women received an approximately equal share of LRP awards, with women having received a slightly higher percentage with 51% of the awards. Minorities, which included Asian/Pacific Islanders, African-Americans, Hispanics, and Native Americans, were recipients of 27 percent (or 439) of the awards.

The Five Extramural Loan Repayment Programs (LRP)

Clinical Research LRP:

Clinical research is patient-oriented clinical research conducted with human subjects, or research on the causes and consequences of disease in human populations involving material of human origin (such as tissue specimens and cognitive phenomena) for which an investigator or colleague directly interacts with human subjects in an outpatient or inpatient setting to clarify a problem in human physiology, pathophysiology or disease, or epidemiologic or behavioral studies, outcomes research or health services research, or developing new technologies, therapeutic interventions, or clinical trials.

Pediatric Research LRP:

Qualified Pediatric Research is defined as research directly related to diseases, disorders, and other conditions in children.

Health Disparities Research LRP:

The scope of research qualified for this program includes basic research, clinical research or behavioral research directly related to health disparity populations and the medically underserved. Group is defined as a health disparity population: if there is a significant disparity in the overall rate of disease incidence, prevalence, morbidity, mortality, or survival rates in the population as compared to the health status of the general population.

Clinical Research for Individuals from Disadvantaged Backgrounds LRP:

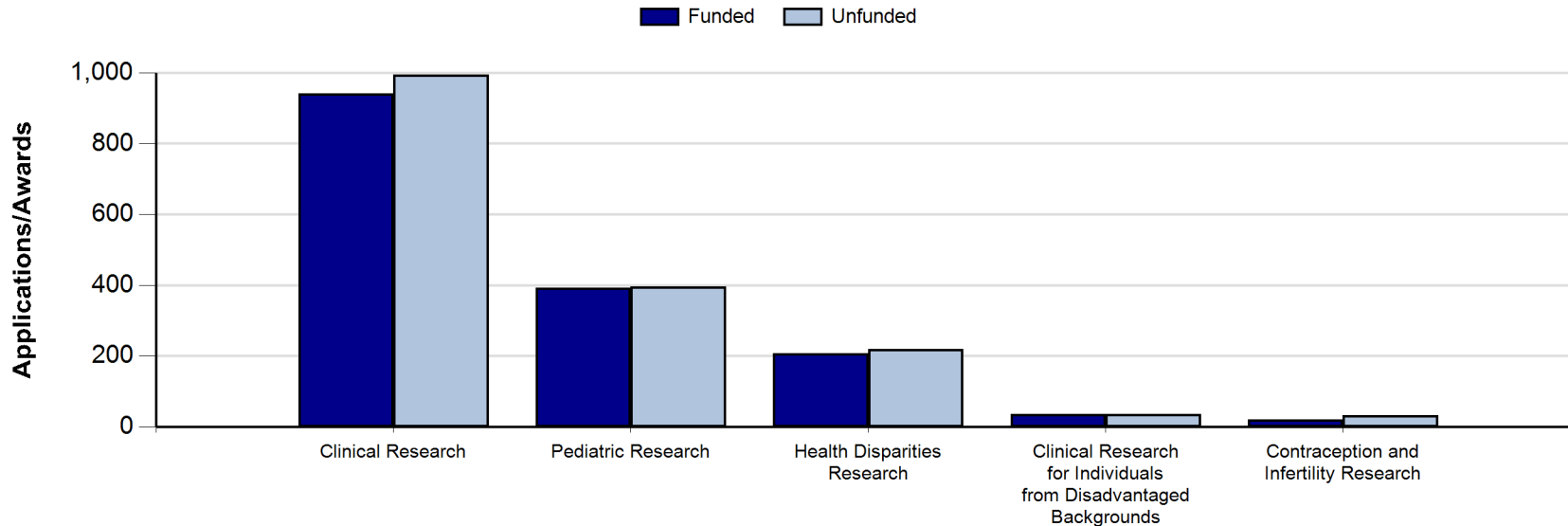
For this program, an individual from a disadvantaged background is defined according to low family income levels set by the U.S. Bureau of the Census – as published in the Federal Register.

To meet this low-income requirement candidates must demonstrate their disadvantaged status by submitting (1) a written statement from former school(s) where he/she qualified for Federal disadvantaged assistance, (2) verification of receipt of loans from either the Health Professions Student Loans (HPSL) or Loans for Disadvantaged Student Program, or (3) verification of a scholarship from the U.S. Department of Health and Human Services under the Scholarship for Individuals with Exceptional Financial Need.

Contraception and Infertility Research LRP:

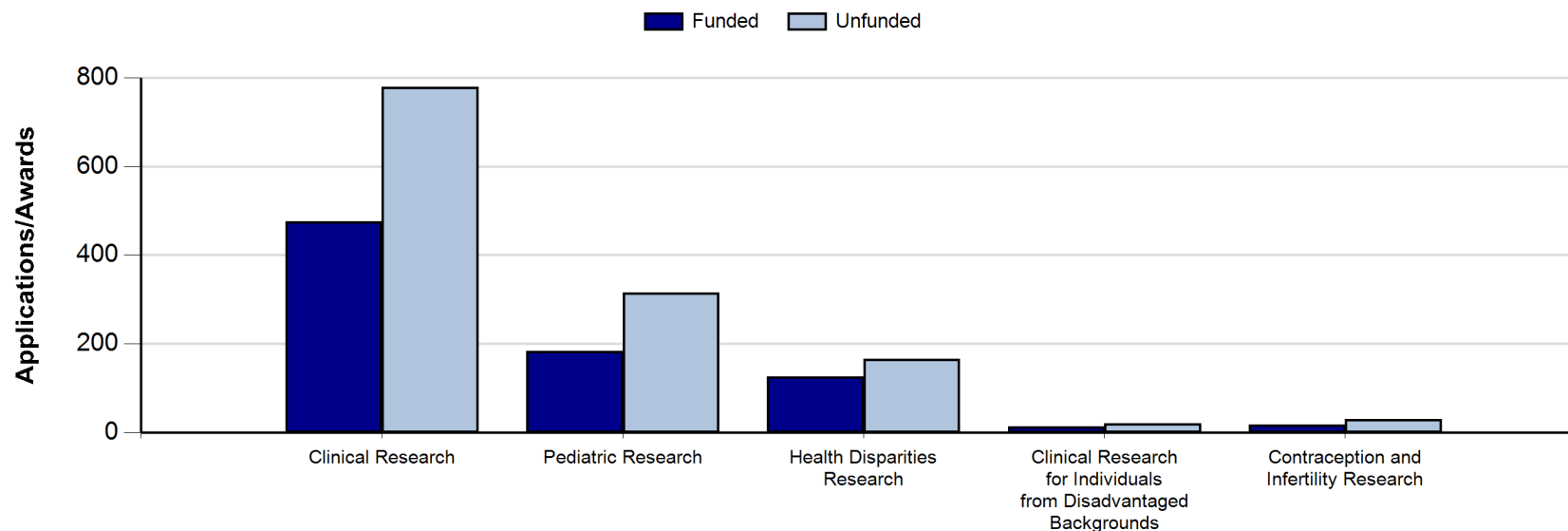
Contraception research is defined as research whose ultimate goal is to provide new or improved methods of preventing pregnancy. Infertility research is defined as research whose long-range objective is to evaluate, treat, or ameliorate conditions which result in the failure of couples to either conceive or bear young.

Funded and Unfunded Applications by Program (New + Renewal)



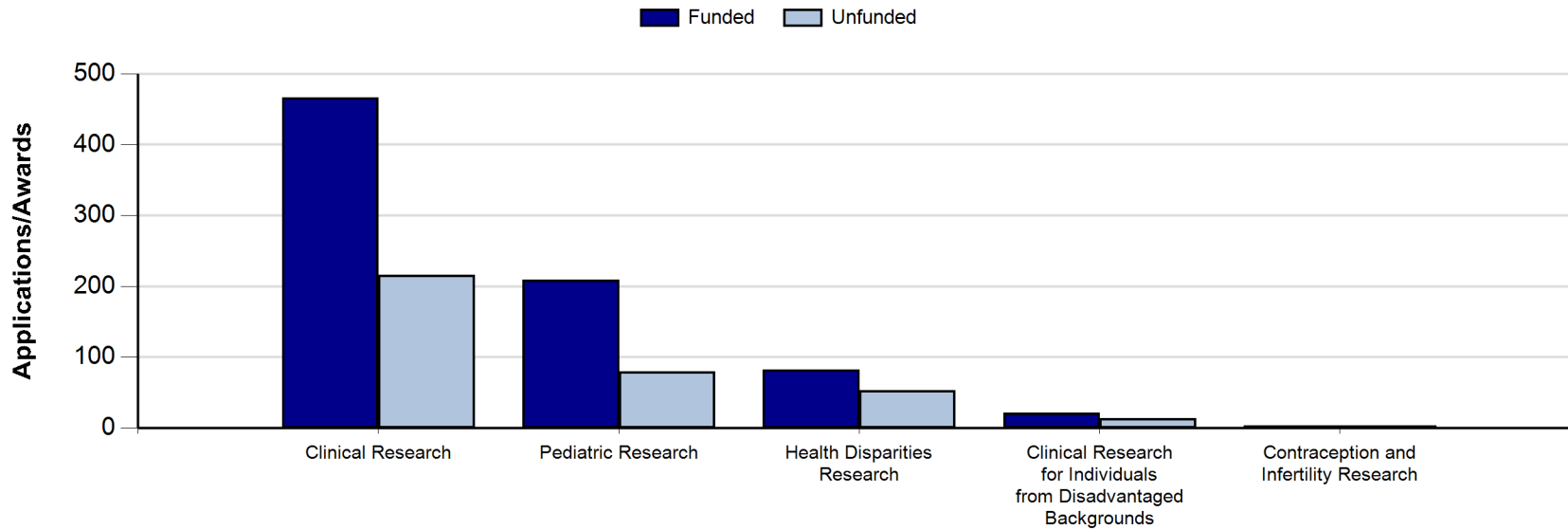
Applications, N	1,937		789		427		70		54	
Funded n, %	942	49	393	50	208	49	35	50	21	39
Unfunded n, %	995	51	396	50	219	51	35	50	33	61

Funded and Unfunded Applications by Program (New)



Applications, N	1,255		500		292		35		48	
Funded n, %	476	38	184	37	126	43	14	40	18	38
Unfunded n, %	779	62	316	63	166	57	21	60	30	63

Funded and Unfunded Applications by Program (Renewal)



Applications, N	682		289		135		35		6	
Funded, n, %	466	68	209	72	82	61	21	60	3	50
Unfunded, n, %	216	32	80	28	53	39	14	40	3	50

Applications, Awards, and Success Rates by Program

LRP	New + Renewal			New			Renewal		
	Applications	Awards	Success Rate %	Applications	Awards	Success Rate %	Applications	Awards	Success Rate %
	N	n	%	N	n	%	N	n	%
Clinical Research	1,937	942	49	1,255	476	38	682	466	68
Pediatric Research	789	393	50	500	184	37	289	209	72
Health Disparities Research	427	208	49	292	126	43	135	82	61
Clinical Research for Individuals from Disadvantaged Backgrounds	70	35	50	35	14	40	35	21	60
Contraception and Infertility Research	54	21	39	48	18	38	6	3	50
Total	3,277	1,599	49	2,130	818	38	1,147	781	68

Funding by Program (New + Renewal)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	942	\$42,630,949	\$45,256	\$32,609
Pediatric Research	393	\$17,384,297	\$44,235	\$30,907
Health Disparities Research	208	\$9,072,308	\$43,617	\$29,926
Clinical Research for Individuals from Disadvantaged Backgrounds	35	\$1,546,300	\$44,180	\$32,764
Contraception and Infertility Research	21	\$1,005,898	\$47,900	\$31,222
Total	1,599	\$71,639,751	\$44,803	\$31,813

Funding by Program (New)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	476	\$26,777,121	\$56,254	\$34,042
Pediatric Research	184	\$11,074,438	\$60,187	\$32,689
Health Disparities Research	126	\$6,299,574	\$49,997	\$32,417
Clinical Research for Individuals from Disadvantaged Backgrounds	14	\$952,387	\$68,028	\$30,239
Contraception and Infertility Research	18	\$853,696	\$47,428	\$32,922
Total	818	\$45,957,216	\$56,182	\$33,535

Funding by Program (Renewal)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	466	\$15,853,827	\$34,021	\$26,791
Pediatric Research	209	\$6,309,859	\$30,191	\$20,901
Health Disparities Research	82	\$2,772,734	\$33,814	\$22,504
Clinical Research for Individuals from Disadvantaged Backgrounds	21	\$593,913	\$28,282	\$23,814
Contraception and Infertility Research	3	\$152,202	\$50,734	\$22,827
Total	781	\$25,682,535	\$32,884	\$24,849

Funding by NIH Institutes and Centers (New)

IC	Awards	Funding	Mean Award	Standard Deviation
NCMHD	140	\$7,251,961	\$51,800	\$32,558
NHLBI	137	\$8,595,241	\$62,739	\$31,997
NICHD	79	\$3,682,239	\$46,611	\$33,136
NCI	78	\$4,889,479	\$62,686	\$36,054
NIMH	60	\$3,033,303	\$50,555	\$34,180
NIAID	55	\$3,539,399	\$64,353	\$32,116
NIDDK	48	\$2,822,201	\$58,796	\$32,067
NINDS	32	\$2,033,990	\$63,562	\$31,543
NIDA	31	\$1,585,246	\$51,137	\$34,954
NIA	29	\$1,255,206	\$43,283	\$32,038
NIDCD	21	\$810,397	\$38,590	\$30,651
NEI	19	\$1,255,063	\$66,056	\$28,356
NIAMS	19	\$961,477	\$50,604	\$32,094
NIAAA	18	\$669,505	\$37,195	\$29,108
NCRR	17	\$1,415,164	\$83,245	\$27,209
NIDCR	8	\$463,019	\$57,877	\$22,975
NIGMS	7	\$613,523	\$87,646	\$20,432
NIEHS	6	\$258,909	\$43,151	\$29,670
NCCAM	3	\$272,215	\$90,738	\$26,533
NLM	3	\$237,646	\$79,215	\$44,361
NIBIB	3	\$81,068	\$27,023	\$24,768
NHGRI	2	\$63,423	\$31,711	\$20,479
NINR	2	\$61,485	\$30,743	\$26,677
FIC	1	\$106,057	\$0	\$0
Total	818	\$45,957,216	\$56,182	\$33,535

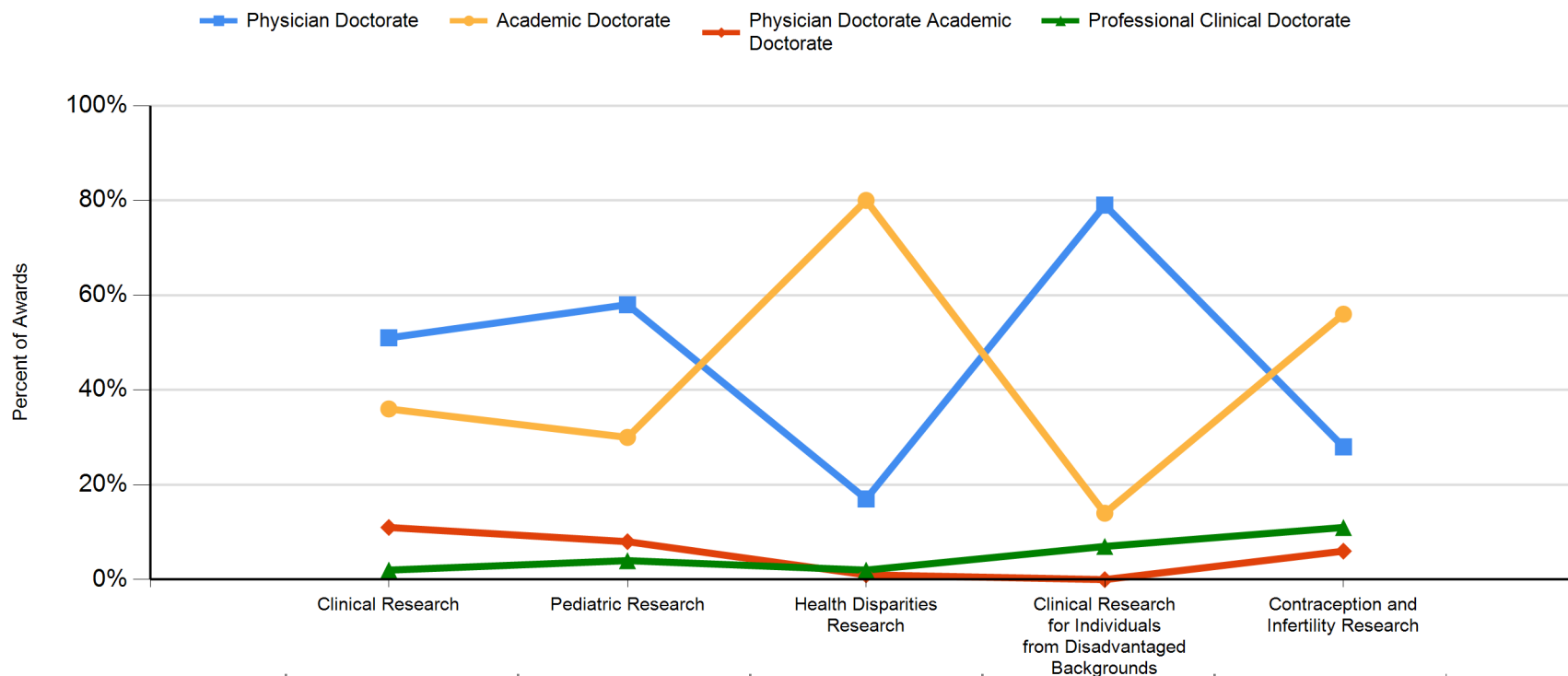
Funding by NIH Institutes and Centers (Renewal)

IC	Awards	Funding	Mean Award	Standard Deviation
NCMHD	103	\$3,366,647	\$32,686	\$22,768
NCI	92	\$3,274,738	\$35,595	\$28,859
NHLBI	86	\$3,419,716	\$39,764	\$28,795
NIAID	83	\$2,102,883	\$25,336	\$16,104
NIMH	60	\$2,003,879	\$33,398	\$27,163
NIDA	58	\$1,901,079	\$32,777	\$23,670
NICHD	49	\$1,552,868	\$31,691	\$22,512
NCRR	42	\$1,512,308	\$36,007	\$31,626
NIA	35	\$1,219,923	\$34,855	\$26,807
NIDDK	34	\$1,194,106	\$35,121	\$22,523
NIAAA	29	\$911,265	\$31,423	\$19,648
NINDS	22	\$556,012	\$25,273	\$15,233
NIAMS	20	\$802,689	\$40,134	\$32,703
NEI	18	\$449,829	\$24,991	\$20,926
NIDCD	14	\$242,506	\$17,322	\$10,264
NIEHS	10	\$206,712	\$20,671	\$10,146
NIDCR	8	\$236,650	\$29,581	\$14,498
NCCAM	5	\$251,717	\$50,343	\$26,776
NHGRI	5	\$173,026	\$34,605	\$24,105
NIGMS	4	\$110,222	\$27,556	\$20,097
NLM	2	\$154,359	\$77,180	\$23,277
NIBIB	1	\$33,693	\$0	\$0
NINR	1	\$5,706	\$0	\$0
FIC	0	\$0	\$0	\$0
Total	781	\$25,682,535	\$32,884	\$24,849

Applications, Awards, and Success Rates by Post-Degree Years (New)

Years Since Degree	Applications N	Awards n	Success rate %
<1 Year	40	15	38
1 to 5 Years	1,294	454	35
6 to 10 Years	673	306	45
11 to 15 Years	88	30	34
15+ Years	35	13	37
Total	2,130	818	38

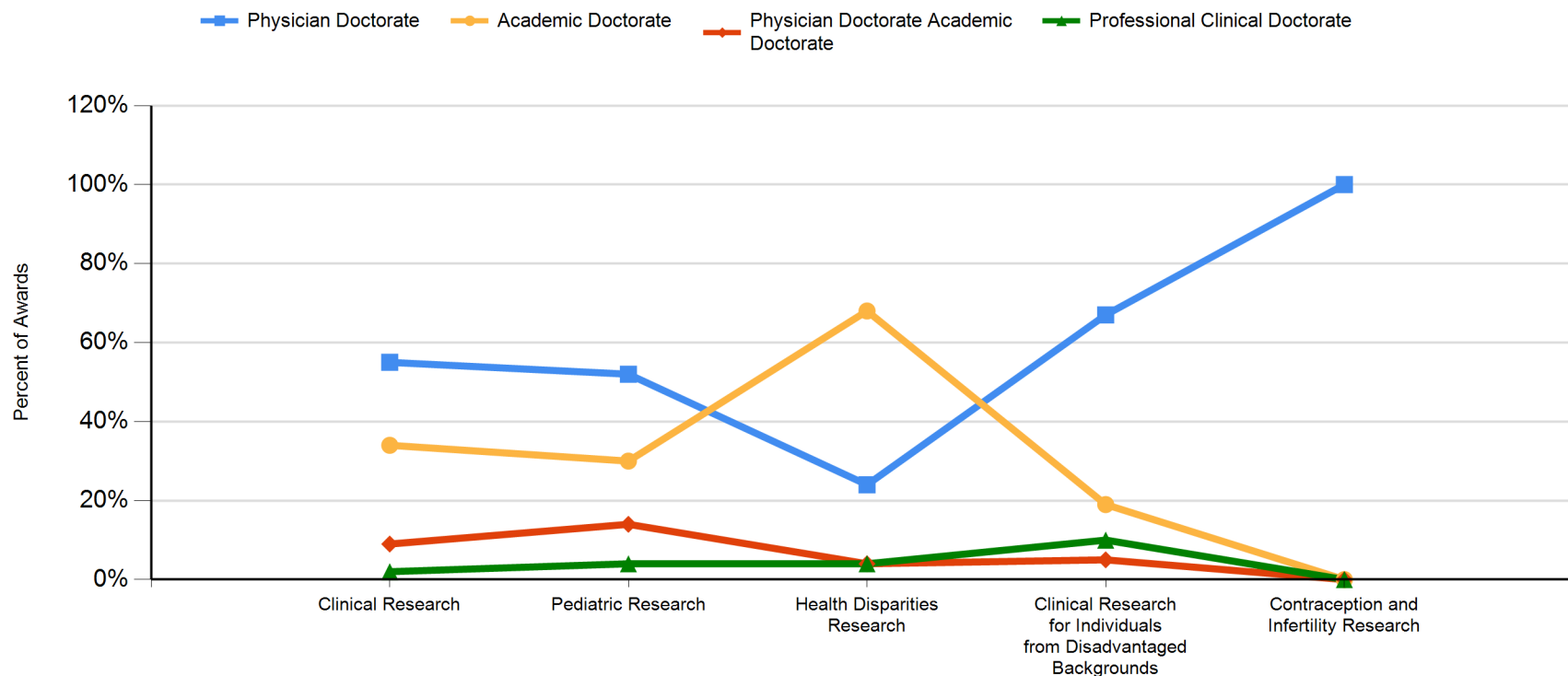
LRP Awards by Doctoral Degree (New)



	n	%	n	%	n	%	n	%	n	%
Physician Doctorate	243	51	107	58	21	17	11	79	5	28
Academic Doctorate	172	36	55	30	101	80	2	14	10	56
Physician Doctorate/Academic Doctorate	51	11	15	8	1	1	0	0	1	6
Professional Clinical Doctorate	10	2	7	4	3	2	1	7	2	11

Note: Percentages do not total to 100% due to rounding error.

LRP Awards by Doctoral Degree (Renewal)



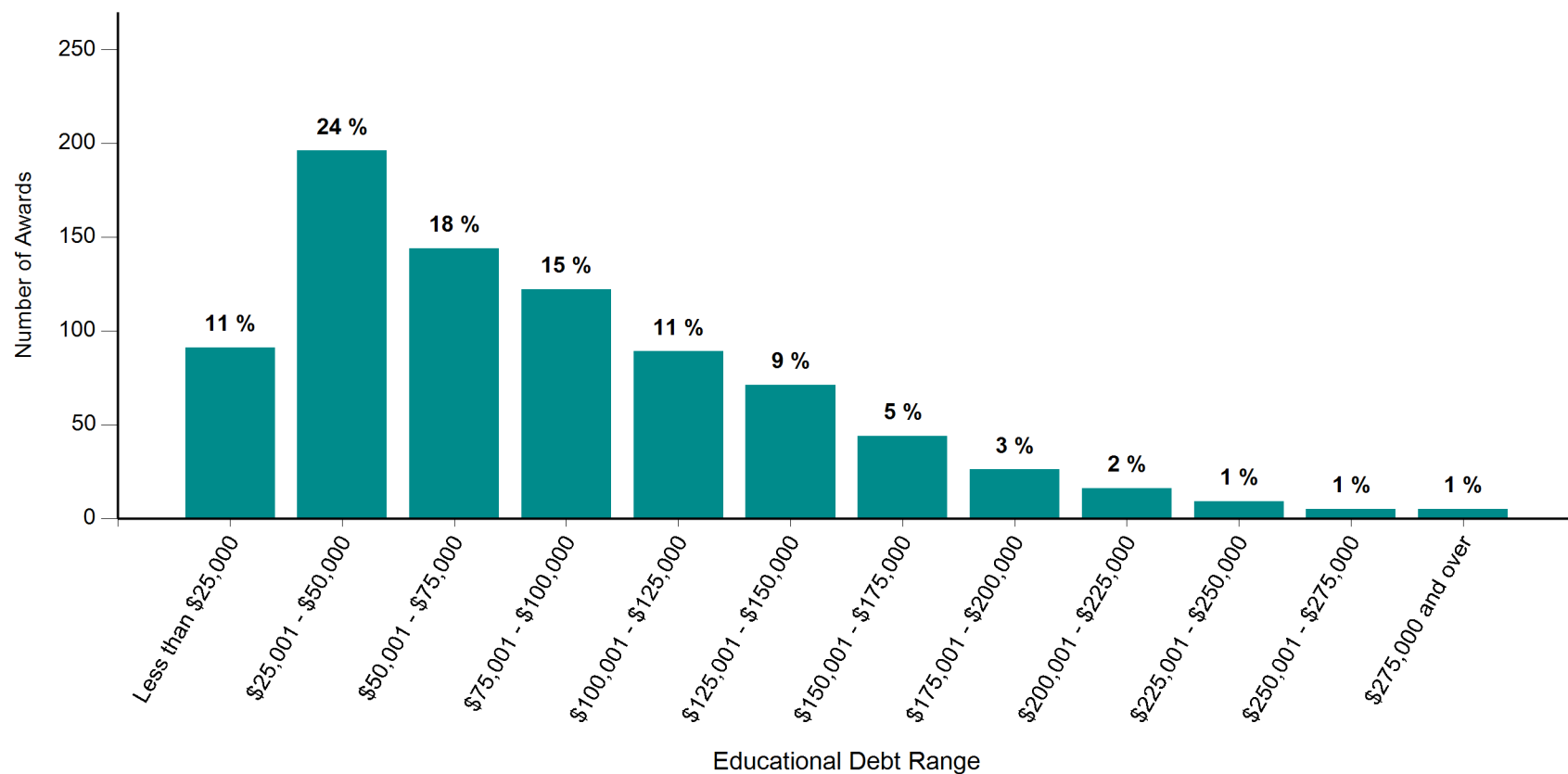
	n	%	n	%	n	%	n	%	n	%
Physician Doctorate	256	55	109	52	20	24	14	67	3	100
Academic Doctorate	159	34	63	30	56	68	4	19	0	0
Physician Doctorate/Academic Doctorate	44	9	29	14	3	4	1	5	0	0
Professional Clinical Doctorate	7	2	8	4	3	4	2	10	0	0

Note: Percentages do not total to 100% due to rounding error.

Applications, Awards, and Success Rates by Source of Research Funding (New + Renewal)

Source of Research Funding	Applications N	Awards n	Success Rate %
NIH Only	1,163	603	52
NIH and Non Profit	1,190	669	56
Non Profit Only	924	327	35
Total	3,277	1,599	49

Educational Debt Levels of LRP Awardees (New)



Note: Percentages do not total to 100% due to rounding error.

Number of Prior LRP Awards Received by LRP Participants (Renewal)

LRP	1 Prior Award	2 Prior Awards	3 Prior Awards	4 Prior Awards	5 Prior Awards	6 Prior Awards	Total
Clinical Research	35	0	0	0	0	0	35
Pediatric Research	15	0	0	0	0	0	15
Health Disparities Research	14	0	0	0	0	0	14
Clinical Research for Individuals from Disadvantaged Backgrounds	6	0	0	0	0	0	6
Total	70	0	0	0	0	0	70

Applications, Awards, and Success Rates by Gender (New + Renewal)

LRP	Male Applicants			Female Applicants			Gender Distribution	
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	Male Awards	Female Awards
	N	n	%	N	n	%	%	%
Clinical Research	1040	526	51	897	416	46	56	44
Pediatric Research	354	192	54	435	201	46	49	51
Health Disparities Research	128	69	54	299	139	46	33	67
Clinical Research for Individuals from Disadvantaged Backgrounds	25	14	56	45	21	47	40	60
Contraception and Infertility Research	18	5	28	36	16	44	24	76
Total	1,565	806	52	1,712	793	46	50	50

Awardee Demographics by Ethnicity (New + Renewal)

LRP	Awards	Hispanic or Latino		Not Hispanic or Latino	
	N	n	%	n	%
Clinical Research	942	41	4	901	96
Pediatric Research	393	20	5	373	95
Health Disparities Research	208	34	16	174	84
Clinical Research for Individuals from Disadvantaged Backgrounds	35	13	37	22	63
Contraception and Infertility Research	21	*	*	21	100
Total	1,599	108	7	1,491	93

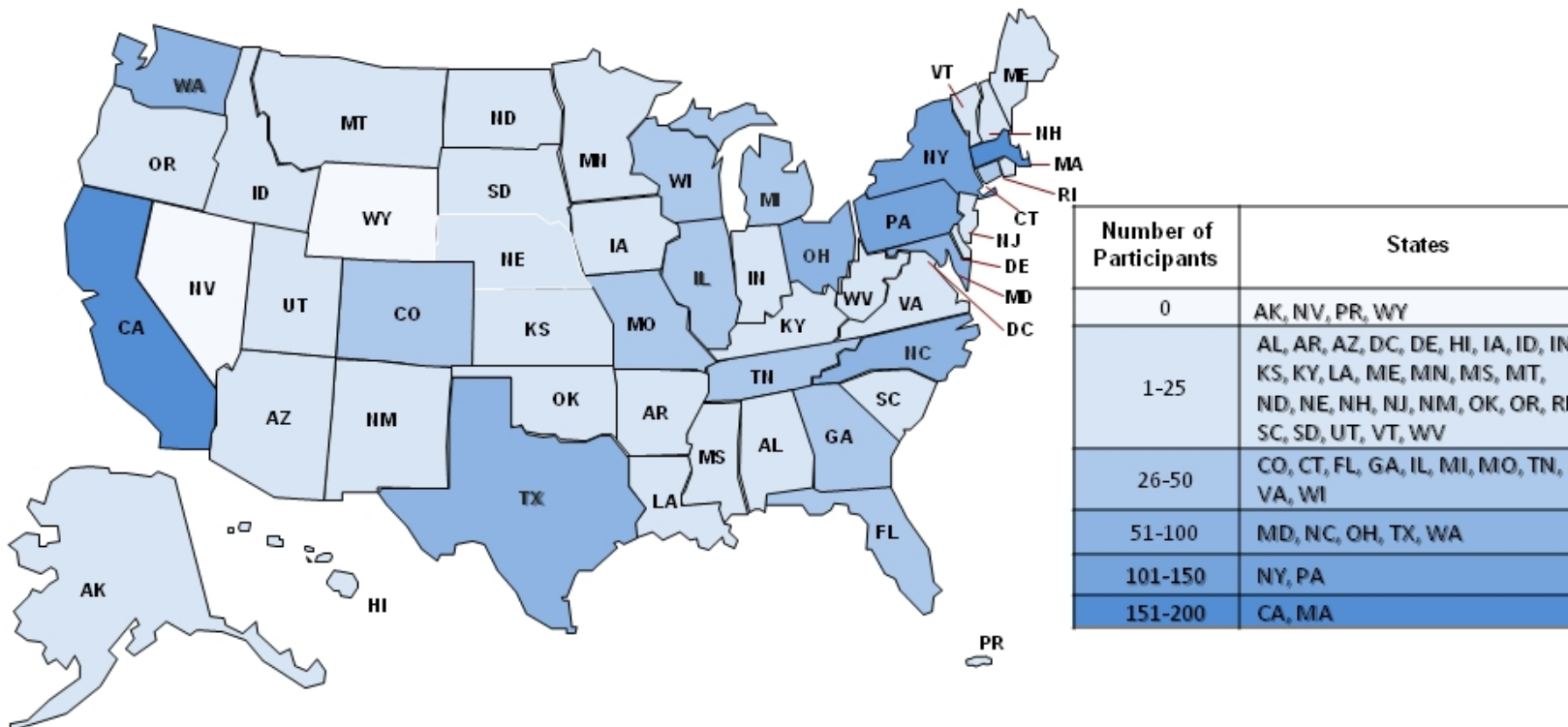
*Restricted Data – small-sized groups cannot be reported due to participant confidentiality considerations.

Awardee Demographics by Race (New + Renewal)

LRP	Awards	American Indian or Alaska Native		Black or African American		Asian		Native Hawaiian or Other Pacific Islander		White		More Than One Race		Other No Response	
		N	n	%	n	%	n	%	n	%	n	%	n	%	n
Clinical Research	942	*	*	40	4	101	11	*	*	682	72	15	2	104	11
Pediatric Research	393	*	*	13	3	46	12	*	*	281	72	*	*	45	11
Health Disparities Research	208	*	*	75	36	11	5	*	*	68	33	6	3	43	21
Clinical Research for Individuals from Disadvantaged Backgrounds	35	*	*	6	17	*	*	*	*	13	37	*	*	12	34
Contraception and Infertility Research	21	*	*	*	*	*	*	*	*	17	81	*	*	*	*
Total	1,599	*	*	135	8	165	10	*	*	1,061	66	26	2	204	13

*Restricted Data – small-sized groups cannot be reported due to participant confidentiality considerations.

Number of Awardees by State (New + Renewal)



**Division of Loan Repayment
Office of Extramural Programs
Office of Extramural Research
Office of the Director
National Institutes of Health
Department of Health and Human Services**

**Web site:
Loan Repayment Programs (LRP)
<http://www.lrp.nih.gov>**