



FY 2009 DATA BOOK

Extramural Loan Repayment Programs

NIH Division of Loan Repayment

Revised: March 1, 2014

Fiscal Year 2009 Highlights

Fiscal Year period covers
October 1, 2008 to September 30, 2009

Application Cycle:

September 1 - December 3, 2008

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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)
National Institute of Child Health and Human Development (NICHD)
***Eunice Kennedy Shriver* 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)
NIH Institutes and Centers*
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 on Minority Health and Health Disparities (NCMHD)
National Center for Research Resources (NCRR)

* Participating in the Extramural Loan Repayment Programs

The Year in Review

In Fiscal Year (FY) 2009, 3,391 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, 1,604 were awarded contracts totaling \$73,577,094. The combined (new and renewal applicants) success rate for the Extramural LRPs was 47 percent.

The Extramural Clinical Research LRP received 53 percent (1,810) of all applications.

New applicants (those not previously funded) constituted 63 percent of all applications while renewal applicants (those previously funded) comprised 37 percent of all applicants. Success rates for new and renewal applicants were 36 and 67 percent, respectively.

The LRPs are open to health professionals with doctoral level degrees or advanced certifications and varying levels of experience. Many FY2007 awardees are beginning their careers, with 258 percent having received their qualifying degrees within the last 5 years and 94 percent within the past 10 years.

MDs (including those with MD/PhD degrees) comprised 52 percent of the 1,604 awards, while those with PhDs or other doctoral level degrees comprised 45 percent of the total awards.

Seventy-four percent of the 1,604 awardees had educational debt greater than \$50,000, with approximately 10 percent having debt levels greater than \$200,000.

Women received 857 of the 1,604 LRP awards. African-Americans received 143 awards, Asian/Pacific Islanders received 149 awards, Hispanics received 90 awards, and Native Americans were recipients of 9 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:

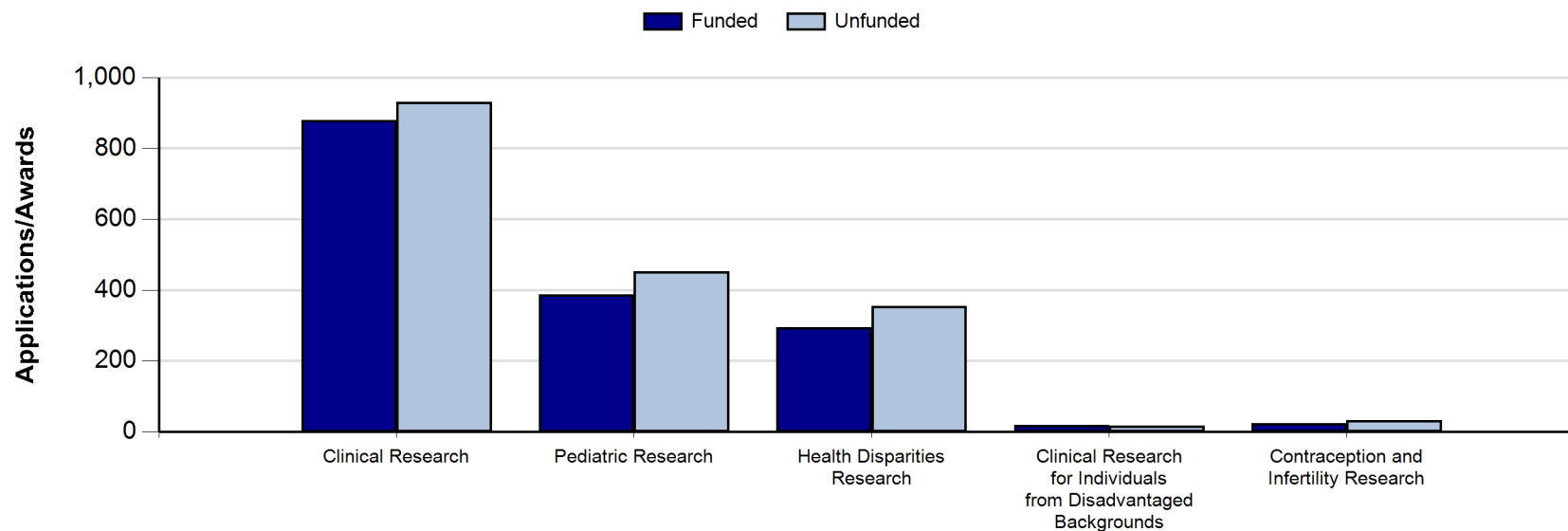
For this program, an individual from a disadvantaged background is defined according to low family income levels set by the U.S. Bureau of the Census – as published in the Federal Register.

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:

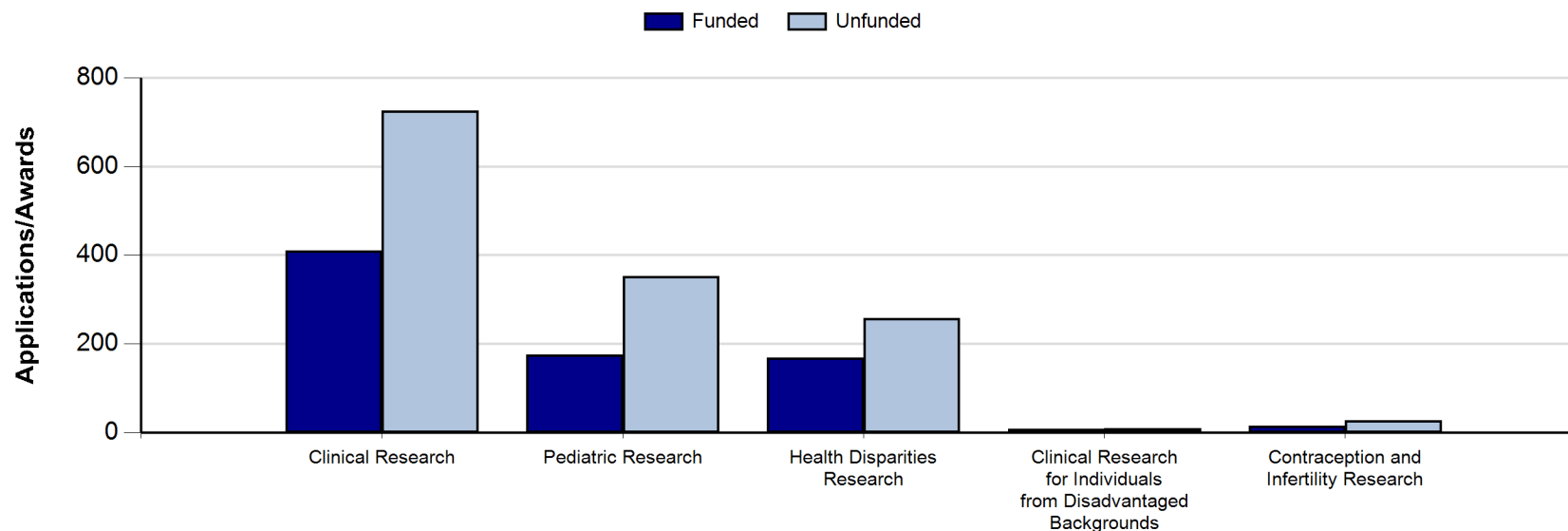
Contraception research is defined as research whose ultimate goal is to provide new or improved methods of preventing pregnancy. Infertility research is defined as research whose long-range objective is to evaluate, treat, or ameliorate conditions which result in the failure of couples to either conceive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

Funded and Unfunded Applications by Program (New + Renewal)



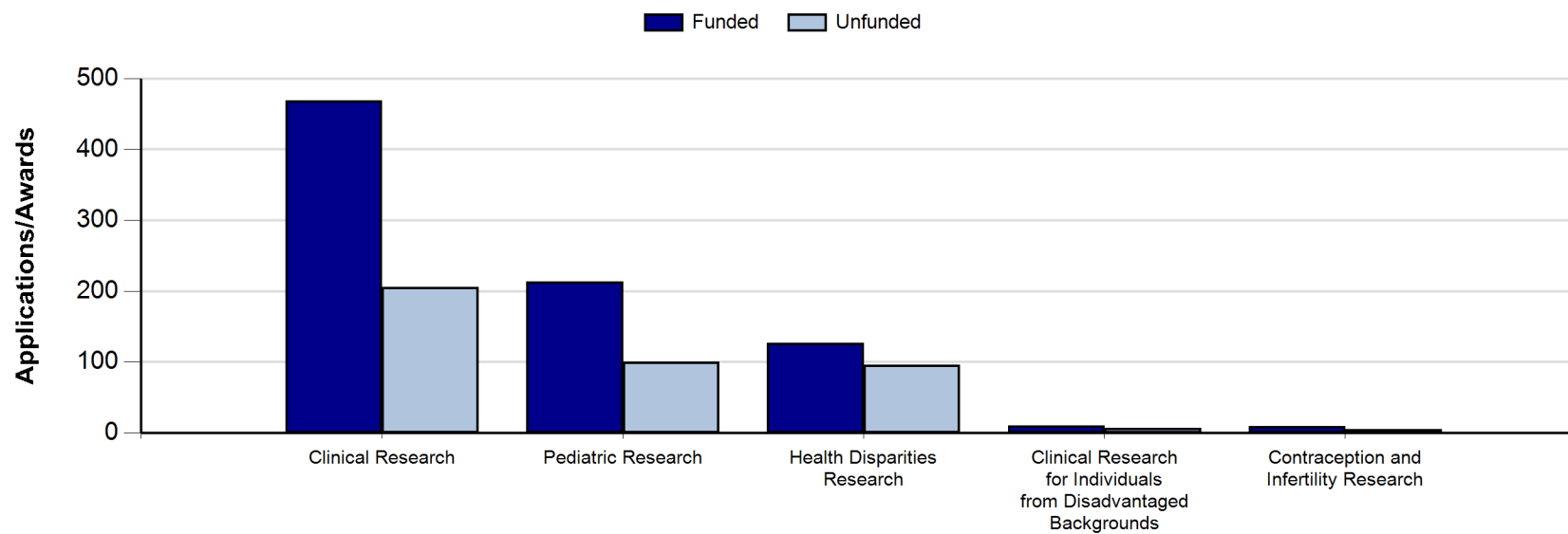
Applications, N	1,810		841		649		35		56	
Funded n, %	879	49	388	46	295	45	18	51	24	43
Unfunded n, %	931	51	453	54	354	55	17	49	32	57

Funded and Unfunded Applications by Program (New)



Applications, N	1,135		528		426		18		42	
Funded n, %	410	36	175	33	168	39	8	44	15	36
Unfunded n, %	725	64	353	67	258	61	10	56	27	64

Funded and Unfunded Applications by Program (Renewal)



Applications, N	675		313		223		17		14	
Funded, n, %	469	69	213	68	127	57	10	59	9	64
Unfunded, n, %	206	31	100	32	96	43	7	41	5	36

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	1,810	879	49	1,135	410	36	675	469	69
Pediatric Research	841	388	46	528	175	33	313	213	68
Health Disparities Research	649	295	45	426	168	39	223	127	57
Clinical Research for Individuals from Disadvantaged Backgrounds	35	18	51	18	8	44	17	10	59
Contraception and Infertility Research	56	24	43	42	15	36	14	9	64
Total	3,391	1,604	47	2,149	776	36	1,242	828	67

Funding by Program (New + Renewal)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	879	\$40,279,516	\$45,824	\$33,798
Pediatric Research	388	\$18,152,044	\$46,784	\$34,291
Health Disparities Research	295	\$13,132,490	\$44,517	\$31,438
Clinical Research for Individuals from Disadvantaged Backgrounds	18	\$938,466	\$52,137	\$35,093
Contraception and Infertility Research	24	\$1,068,992	\$44,541	\$37,219
Total	1,604	\$73,571,508	\$45,868	\$33,537

Funding by Program (New)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	410	\$25,283,155	\$61,666	\$33,120
Pediatric Research	175	\$10,593,784	\$60,536	\$33,940
Health Disparities Research	168	\$9,122,712	\$54,302	\$30,796
Clinical Research for Individuals from Disadvantaged Backgrounds	8	\$624,418	\$78,052	\$27,753
Contraception and Infertility Research	15	\$864,055	\$57,604	\$34,941
Total	776	\$46,488,125	\$59,907	\$32,908

Funding by Program (Renewal)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	469	\$14,996,361	\$31,975	\$27,791
Pediatric Research	213	\$7,558,260	\$35,485	\$30,277
Health Disparities Research	127	\$4,009,777	\$31,573	\$27,432
Clinical Research for Individuals from Disadvantaged Backgrounds	10	\$314,048	\$31,405	\$25,546
Contraception and Infertility Research	9	\$204,937	\$22,771	\$31,511
Total	828	\$27,083,383	\$32,709	\$28,408

Funding by NIH Institutes and Centers (New)

IC	Awards	Funding	Mean Award	Standard Deviation
NCMHD	176	\$9,747,131	\$55,381	\$30,992
NHLBI	83	\$5,757,479	\$69,367	\$33,460
NCI	79	\$4,904,812	\$62,086	\$32,052
NIAID	66	\$4,397,973	\$66,636	\$31,833
NICHHD	62	\$3,752,866	\$60,530	\$36,165
NIMH	55	\$2,900,430	\$52,735	\$30,891
NIDDK	51	\$3,525,881	\$69,135	\$31,554
NIDA	39	\$2,413,371	\$61,881	\$33,212
NINDS	22	\$1,297,334	\$58,970	\$31,706
NIA	21	\$974,200	\$46,390	\$34,350
NCRR	20	\$1,092,424	\$54,621	\$32,880
NIAAA	20	\$1,075,814	\$53,791	\$32,218
NIAMS	19	\$1,182,157	\$62,219	\$36,343
NIDCD	13	\$671,608	\$51,662	\$26,604
NIGMS	12	\$675,346	\$56,279	\$40,207
NEI	9	\$556,001	\$61,778	\$41,460
NIDCR	7	\$415,799	\$59,400	\$33,794
NIEHS	6	\$254,795	\$42,466	\$35,281
NHGRI	5	\$223,940	\$44,788	\$34,224
NCCAM	4	\$279,492	\$69,873	\$40,681
NLM	3	\$178,360	\$59,453	\$33,133
NIBIB	2	\$170,864	\$85,432	\$25,040
NINR	2	\$40,049	\$20,025	\$10,737
FIC	0	\$0	\$0	\$0
Total	776	\$46,488,125	\$59,907	\$32,908

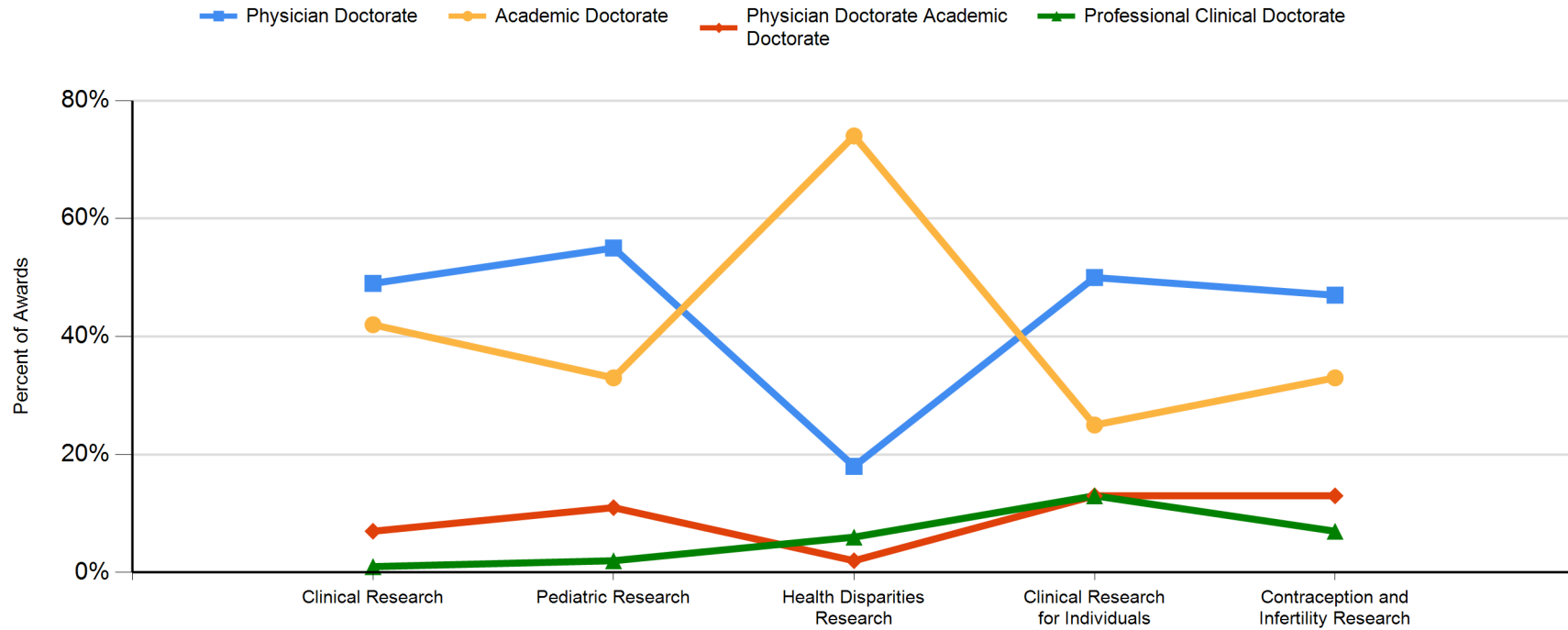
Funding by NIH Institutes and Centers (Renewal)

IC	Awards	Funding	Mean Award	Standard Deviation
NCMHD	137	\$4,323,825	\$31,561	\$27,210
NHLBI	84	\$3,397,748	\$40,449	\$32,883
NCI	73	\$3,149,013	\$43,137	\$32,153
NIAID	70	\$2,259,345	\$32,276	\$25,371
NIMH	70	\$1,674,900	\$23,927	\$20,606
NIDA	59	\$1,110,692	\$18,825	\$15,670
NICHD	53	\$1,591,881	\$30,035	\$31,602
NINDS	45	\$1,515,884	\$33,686	\$30,689
NIA	44	\$1,520,243	\$34,551	\$28,439
NCRR	42	\$1,673,009	\$39,834	\$31,519
NIDDK	36	\$1,463,392	\$40,650	\$25,655
NIAAA	25	\$509,187	\$20,367	\$17,071
NEI	23	\$1,011,994	\$44,000	\$37,248
NIDCD	16	\$498,689	\$31,168	\$27,999
NIAMS	15	\$598,854	\$39,924	\$32,924
NIEHS	14	\$246,679	\$17,620	\$13,950
NIDCR	9	\$300,816	\$33,424	\$25,896
NCCAM	6	\$123,639	\$20,606	\$16,777
NIGMS	3	\$40,223	\$13,408	\$7,118
FIC	1	\$27,460	\$0	\$0
NHGRI	1	\$24,018	\$0	\$0
NLM	1	\$17,460	\$0	\$0
NINR	1	\$4,433	\$0	\$0
NIBIB	0	\$0	\$0	\$0
Total	828	\$27,083,383	\$32,709	\$28,408

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

Years Since Degree	Applications N	Awards n	Success rate %
<1 Year	27	5	19
1 to 5 Years	1,300	446	34
6 to 10 Years	690	280	41
11 to 15 Years	99	37	37
15+ Years	33	8	24
Total	2,149	776	36

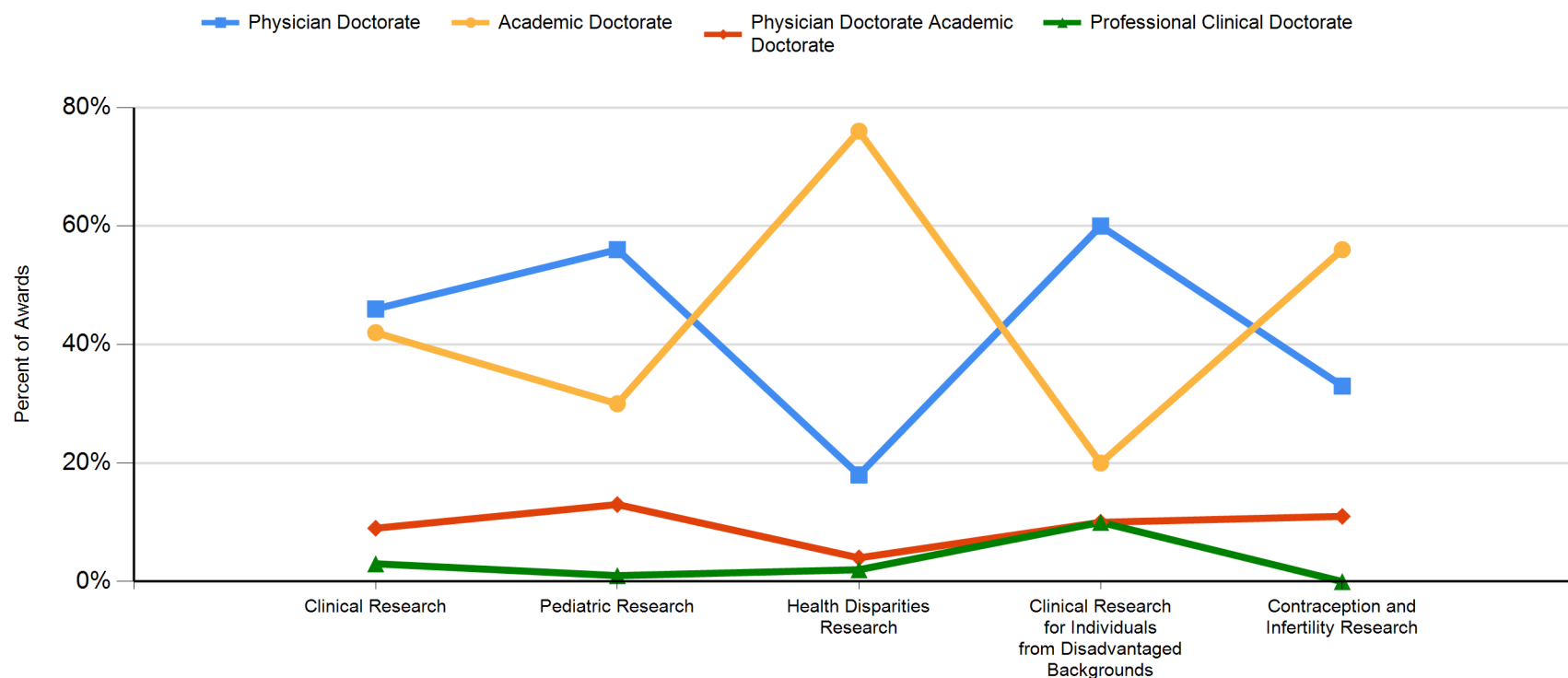
LRP Awards by Doctoral Degree (New)



	Clinical Research		Pediatric Research		Health Disparities Research		Clinical Research for Individuals from Disadvantaged Backgrounds		Contraception and Infertility Research	
	n	%	n	%	n	%	n	%	n	%
Physician Doctorate	201	49	96	55	30	18	4	50	7	47
Academic Doctorate	174	42	57	33	124	74	2	25	5	33
Physician Doctorate/Academic Doctorate	30	7	19	11	4	2	1	13	2	13
Professional Clinical Doctorate	5	1	3	2	10	6	1	13	1	7

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

LRP Awards by Doctoral Degree (Renewal)

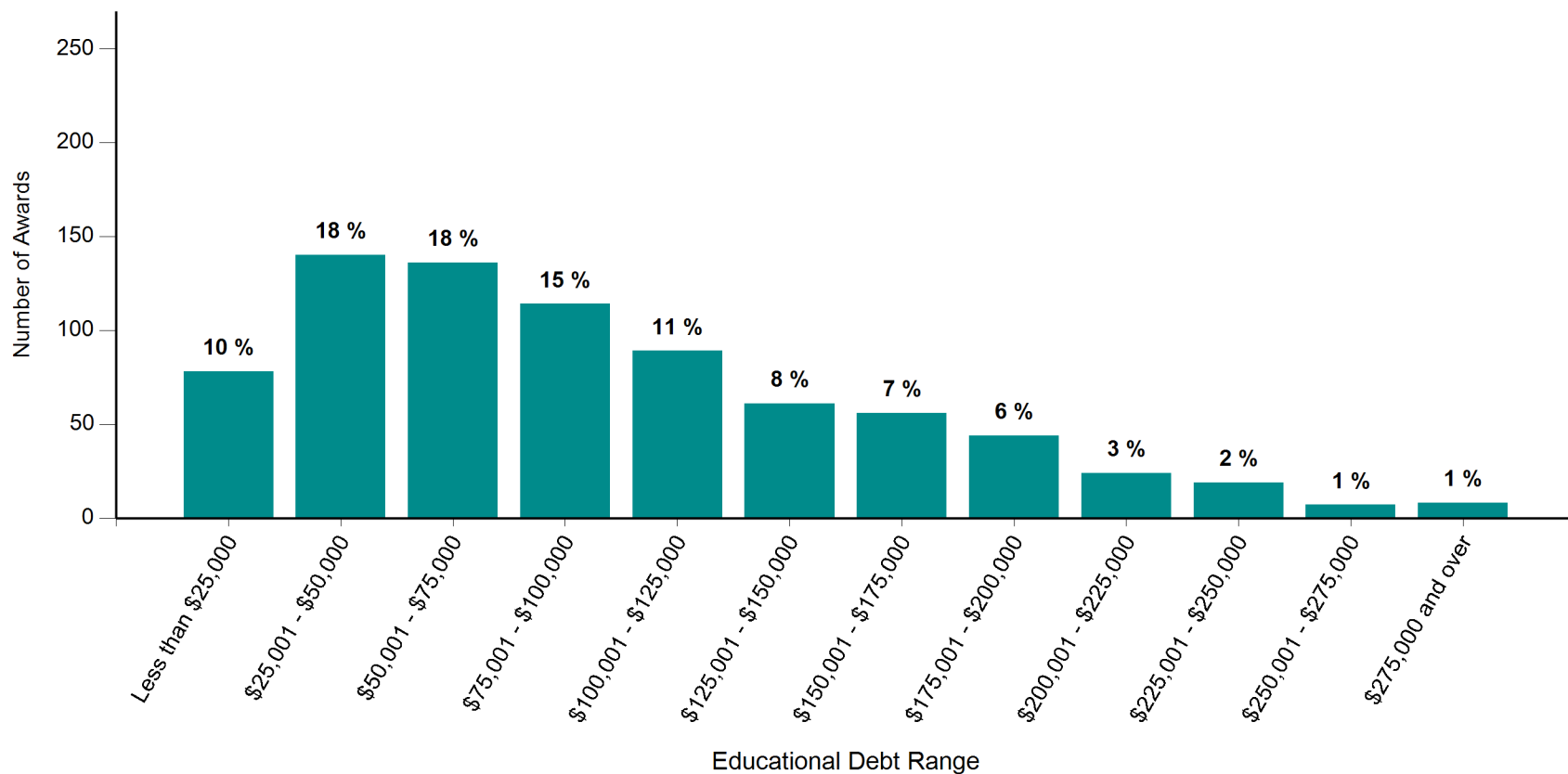


	n	%	n	%	n	%	n	%	n	%
Physician Doctorate	216	46	120	56	23	18	6	60	3	33
Academic Doctorate	196	42	63	30	96	76	2	20	5	56
Physician Doctorate/Academic Doctorate	43	9	28	13	5	4	1	10	1	11
Professional Clinical Doctorate	14	3	2	1	3	2	1	10	0	0

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

Source of Research Funding	Applications N	Awards n	Success Rate %
NIH Only	1,026	505	49
NIH and Non Profit	1,327	743	56
Non Profit Only	1,038	356	34
Total	3,391	1,604	47

Educational Debt Levels of LRP Awardees (New Awards)



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

LRP	1 Prior Award	2 Prior Awards	3 Prior Awards	4 Prior Awards	5 Prior Awards	6 Prior Awards	Total
Clinical Research	253	141	56	15	0	0	465
Pediatric Research	118	70	19	5	0	0	212
Health Disparities Research	73	46	6	1	0	0	126
Clinical Research for Individuals from Disadvantaged Backgrounds	5	4	0	1	0	0	10
Contraception and Infertility Research	8	1	0	0	0	0	9
Total	457	262	81	22	0	0	822

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	952	480	50	858	399	47	55	45
Pediatric Research	360	175	49	481	213	44	45	55
Health Disparities Research	187	81	43	462	214	46	27	73
Clinical Research for Individuals from Disadvantaged Backgrounds	10	5	50	25	13	52	28	72
Contraception and Infertility Research	19	6	32	37	18	49	25	75
Total	1,528	747	49	1,863	857	46	47	53

Awardee Demographics by Ethnicity (New + Renewal)

LRP	Awards	Hispanic or Latino		Not Hispanic or Latino	
	N	n	%	n	%
Clinical Research	879	30	3	849	97
Pediatric Research	388	13	3	375	97
Health Disparities Research	295	42	14	253	86
Clinical Research for Individuals from Disadvantaged Backgrounds	18	*	*	14	78
Contraception and Infertility Research	24	*	*	23	96
Total	1,604	90	6	1,514	94

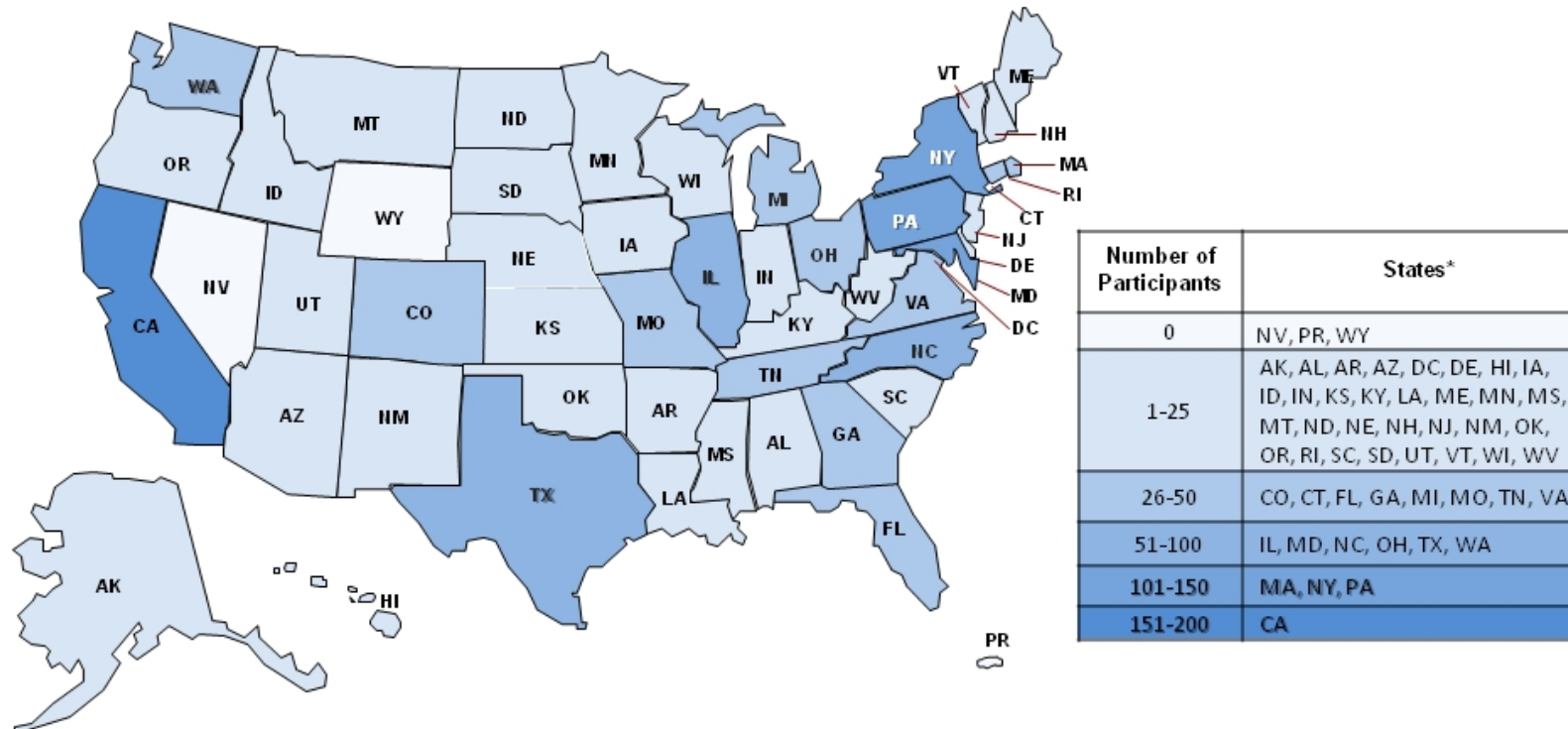
*Restricted Data – small-sized groups cannot be reported due to participant confidentiality considerations.

Awardee Demographics by Race (New + Renewal)

LRP	Awards N	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	%
Clinical Research	879	*	*	28	3	85	10	*	*	676	77	12	1	72	8
Pediatric Research	388	*	*	12	3	40	10	*	*	298	77	8	2	27	7
Health Disparities Research	295	*	*	95	32	23	8	*	*	122	41	14	5	38	13
Clinical Research for Individuals from Disadvantaged Backgrounds	18	*	*	7	39	*	*	*	*	8	44	*	*	*	*
Contraception and Infertility Research	24	*	*	*	*	*	*	*	*	21	88	*	*	*	*
Total	1,604	9	1	142	9	149	9	*	*	1,125	70	35	2	141	9

*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>**