



FY 2012 DATA BOOK

Extramural Loan Repayment Programs

NIH Division of Loan Repayment

Revised: March 1, 2014

Fiscal Year 2012 Highlights

Fiscal Year period covers
October 1, 2011 to September 30, 2012

Application Cycle:

September 1 - November 15, 2011

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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 on Minority Health and Health Disparities (NIMHD)
National Institute of Neurological Disorders and Stroke (NINDS)
National Institute of Nursing Research (NINR)

Centers

National Center for Complementary and Alternative Medicine (NCCAM)
National Center for Advancing Translational Sciences (NCATS)

* Participating in the Extramural Loan Repayment Programs

The Year in Review

In Fiscal Year (FY) 2012, 3,100 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, 1,554 were awarded contracts totaling \$70,707,940. The combined (new and renewal applicants) success rate for the Extramural LRPs was 50 percent.

The Extramural Clinical Research LRP received 54 percent (1,685) of all applications.

New applicants (those not previously funded) constituted 59 percent of all applications while renewal applicants (those previously funded) comprised 41 percent of all applicants. Success rates for new and renewal applicants were 38 and 67 percent, respectively.

The LRPs are open to health professionals with doctoral level degrees or advanced certifications and varying levels of experience. Most new FY 2012 awardees are beginning their careers, with 56 percent having received their qualifying degrees within the last 5 years and 94 percent within the past 10 years.

Physician doctorates (including dual physician doctorates and academic doctorates, for example, MD/PhD degrees) comprised 56 percent of the 1,554 awards, while those with academic doctoral level degrees comprised 43 percent of the total awards.

Seventy-six percent of the new awardees had educational debt greater than \$50,000, with 9 percent having debt levels greater than \$200,000.

Women received 806 of the 1,554 LRP awards. Black/African American applicants received 105 awards. Asians received 187 awards. Hispanics received 94 awards. American Indians/Alaska Natives were recipients of 10 awards.

The Division of Loan Repayment offers multiple resources for assisting applicants. This includes two webinars that have been watched over 7,000 times. An *Overview of the Loan Repayment Programs* summarizes the programs and gives tips for applying, and the *Application Tutorial* outlines the four sections of the application and shows applicants how to avoid common pitfalls. The LRP web site www.lrp.nih.gov contains links for both webinars.

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:

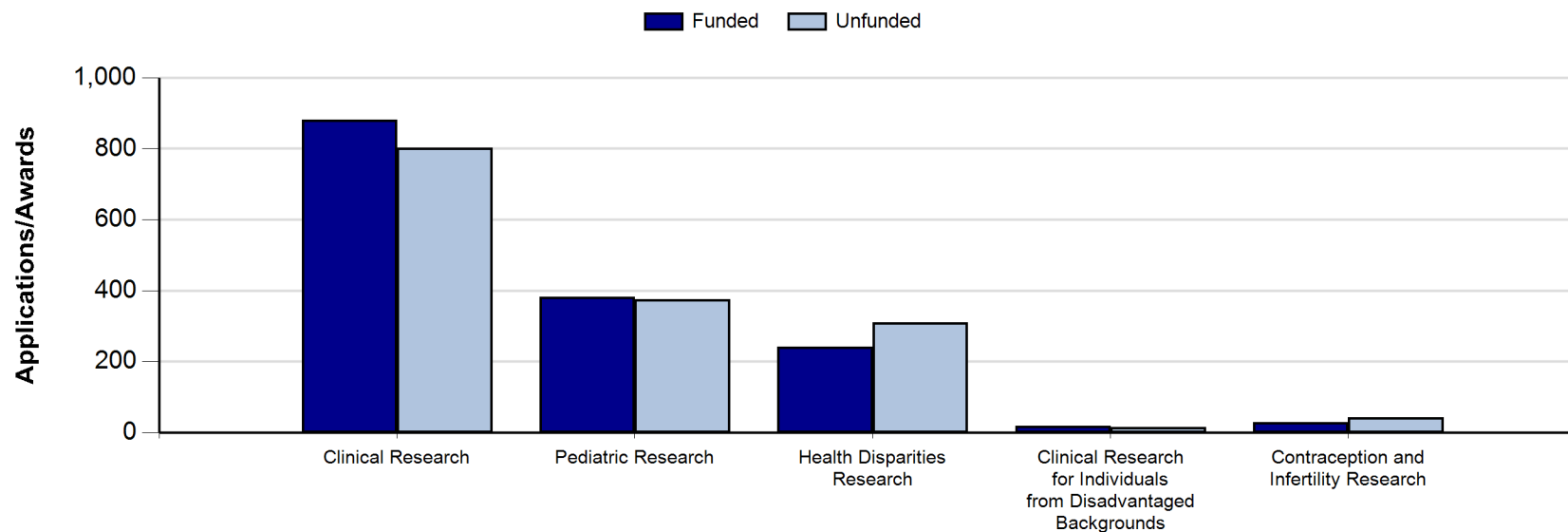
For this program, an individual from a disadvantaged background is defined according to low family income levels set by the U.S. Bureau of the Census – as published in the Federal Register.

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:

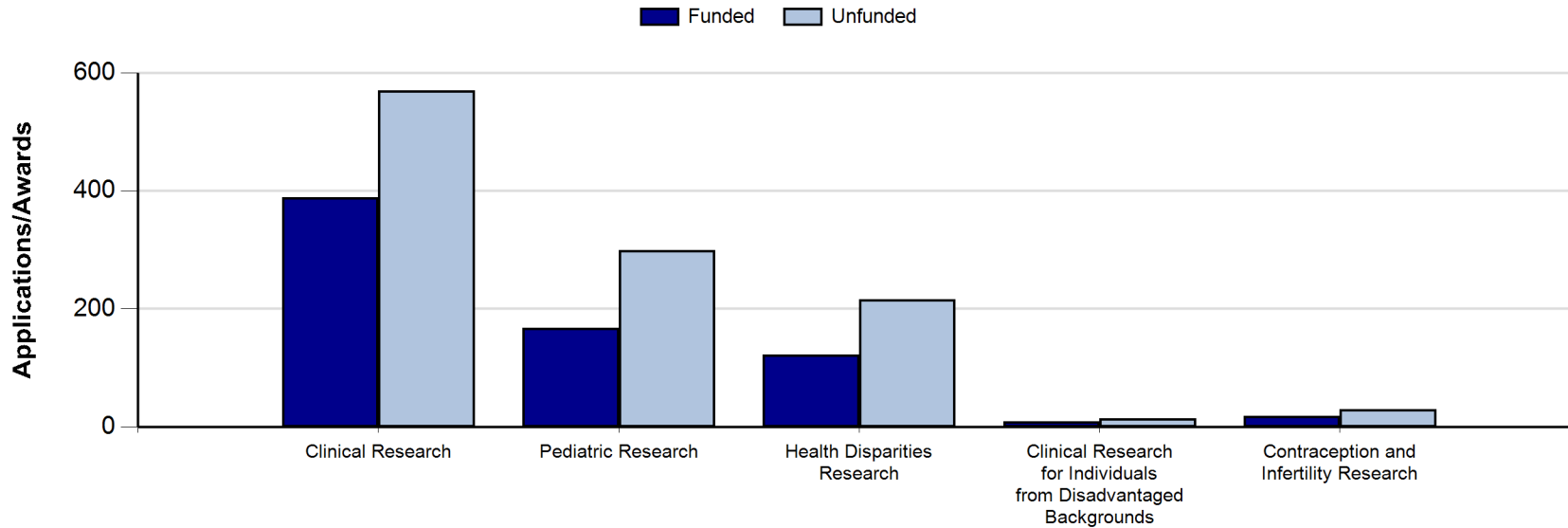
Contraception research is defined as research whose ultimate goal is to provide new or improved methods of preventing pregnancy. Infertility research is defined as research whose long-range objective is to evaluate, treat, or ameliorate conditions which result in the failure of couples to either conceive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

Funded and Unfunded Applications by Program (New + Renewal)



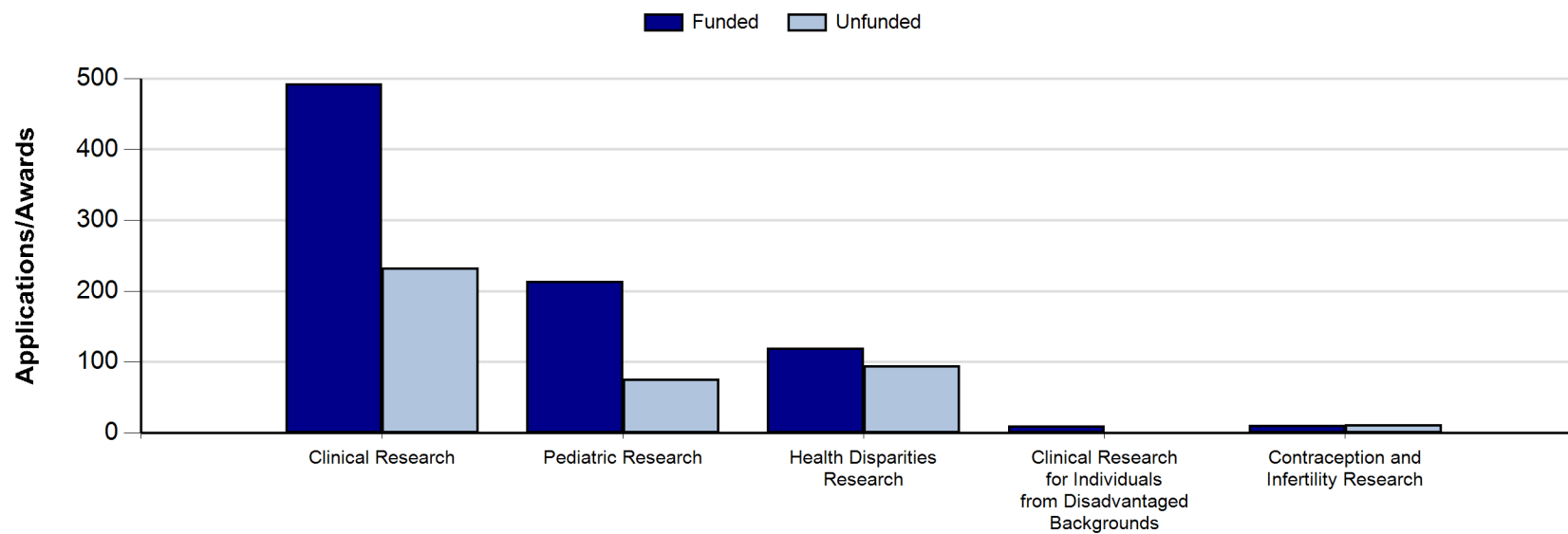
Applications, N	1,685		757		553		34		71	
Funded n, %	882	52	382	50	242	44	19	56	29	41
Unfunded n, %	803	48	375	50	311	56	15	44	42	59

Funded and Unfunded Applications by Program (New)



Applications, N	959		467		338		23		48	
Funded n, %	389	41	168	36	122	36	9	39	18	38
Unfunded n, %	570	59	299	64	216	64	14	61	30	63

Funded and Unfunded Applications by Program (Renewal)



Applications, N	726		290		215		11		23	
Funded, n, %	493	68	214	74	120	56	10	91	11	48
Unfunded, n, %	233	32	76	26	95	44	1	9	12	52

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	1,685	882	52	959	389	41	726	493	68
Pediatric Research	757	382	50	467	168	36	290	214	74
Health Disparities Research	553	242	44	338	122	36	215	120	56
Clinical Research for Individuals from Disadvantaged Backgrounds	34	19	56	23	9	39	11	10	91
Contraception and Infertility Research	71	29	41	48	18	38	23	11	48
Total	3,100	1,554	50	1,835	706	38	1,265	848	67

Funding by Program (New + Renewal)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	882	\$39,564,604	\$44,858	\$29,169
Pediatric Research	382	\$19,041,363	\$49,846	\$32,241
Health Disparities Research	242	\$9,935,476	\$41,056	\$26,495
Clinical Research for Individuals from Disadvantaged Backgrounds	19	\$880,586	\$46,347	\$30,259
Contraception and Infertility Research	29	\$1,285,912	\$44,342	\$31,135
Total	1,554	\$70,707,940	\$45,501	\$29,710

Funding by Program (New)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	389	\$23,339,153	\$59,998	\$29,095
Pediatric Research	168	\$11,560,880	\$68,815	\$29,485
Health Disparities Research	122	\$6,108,530	\$50,070	\$28,467
Clinical Research for Individuals from Disadvantaged Backgrounds	9	\$624,407	\$69,379	\$28,011
Contraception and Infertility Research	18	\$996,637	\$55,369	\$33,397
Total	706	\$42,629,607	\$60,382	\$29,729

Funding by Program (Renewal)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	493	\$16,225,451	\$32,912	\$23,059
Pediatric Research	214	\$7,480,483	\$34,956	\$25,907
Health Disparities Research	120	\$3,826,946	\$31,891	\$20,728
Clinical Research for Individuals from Disadvantaged Backgrounds	10	\$256,179	\$25,618	\$11,218
Contraception and Infertility Research	11	\$289,275	\$26,298	\$15,532
Total	848	\$28,078,333	\$33,111	\$23,336

Funding by NIH Institutes and Centers (New)

IC	Awards	Funding	Mean Award	Standard Deviation
NIMHD	131	\$6,732,937	\$51,396	\$28,751
NCI	103	\$6,644,702	\$64,512	\$27,987
NHLBI	76	\$5,437,310	\$71,544	\$27,596
NICHD	61	\$3,484,145	\$57,117	\$32,009
NIMH	50	\$2,759,959	\$55,199	\$27,317
NIAID	47	\$3,069,839	\$65,316	\$28,863
NIDA	37	\$1,991,030	\$53,812	\$28,121
NIDDK	35	\$2,370,907	\$67,740	\$29,090
NINDS	31	\$1,944,053	\$62,711	\$32,607
NIA	30	\$1,759,716	\$58,657	\$29,989
NCATS	19	\$1,227,532	\$64,607	\$31,649
NIAAA	17	\$932,426	\$54,849	\$31,794
NEI	14	\$786,574	\$56,184	\$32,012
NIAMS	13	\$931,677	\$71,667	\$29,859
NIGMS	9	\$701,871	\$77,986	\$22,597
NIDCD	8	\$407,606	\$50,951	\$28,134
NIEHS	8	\$356,520	\$44,565	\$34,748
NCCAM	7	\$400,954	\$57,279	\$32,240
NIDCR	4	\$265,441	\$66,360	\$28,086
NHGRI	3	\$270,117	\$90,039	\$11,787
NIBIB	2	\$126,986	\$63,493	\$30,719
NINR	1	\$27,306	\$0	\$0
Total	706	\$42,629,607	\$60,382	\$29,729

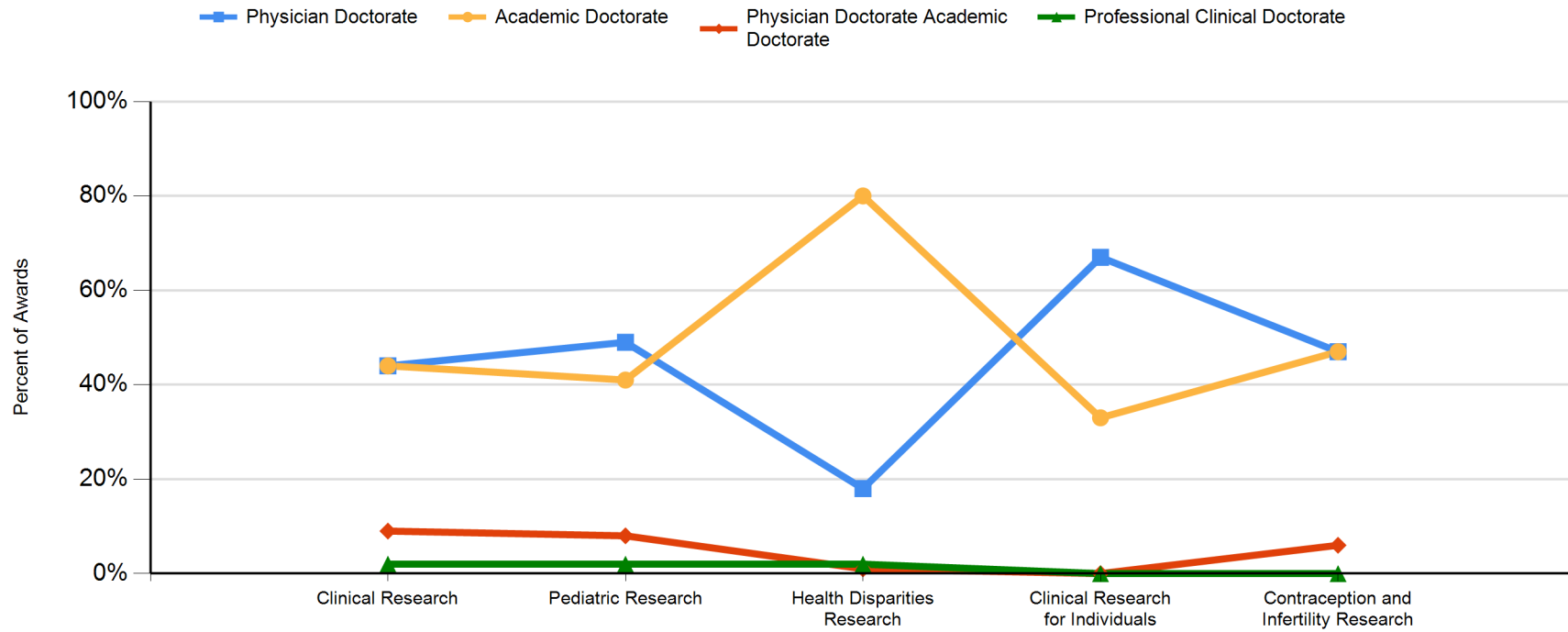
Funding by NIH Institutes and Centers (Renewal)

IC	Awards	Funding	Mean Award	Standard Deviation
NIMHD	130	\$4,083,124	\$31,409	\$20,197
NCI	124	\$3,577,158	\$28,848	\$16,629
NHLBI	91	\$3,696,421	\$40,620	\$27,127
NICHD	73	\$2,610,328	\$35,758	\$24,435
NIAID	71	\$2,886,609	\$40,656	\$25,546
NIDA	68	\$1,512,467	\$22,242	\$14,196
NIMH	61	\$1,913,671	\$31,372	\$21,430
NCATS	40	\$1,560,312	\$39,008	\$27,542
NIDDK	39	\$1,626,699	\$41,710	\$26,552
NINDS	31	\$1,130,348	\$36,463	\$29,721
NIAAA	27	\$614,424	\$22,756	\$19,910
NEI	20	\$712,588	\$35,629	\$28,695
NIAMS	19	\$803,875	\$42,309	\$30,838
NIA	18	\$490,178	\$27,232	\$16,443
NIDCD	13	\$203,595	\$15,661	\$7,607
NIDCR	12	\$408,746	\$34,062	\$30,122
NIEHS	9	\$226,064	\$25,118	\$13,547
NINR	1	\$14,298	\$0	\$0
NIBIB	1	\$7,430	\$0	\$0
NCCAM	0	\$0	\$0	\$0
NHGRI	0	\$0	\$0	\$0
NIGMS	0	\$0	\$0	\$0
Total	848	\$28,078,333	\$33,111	\$23,336

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

Years Since Degree	Applications N	Awards n	Success rate %
<1 Year	19	8	42
1 to 5 Years	1,082	389	36
6 to 10 Years	615	264	43
11 to 15 Years	105	40	38
15+ Years	14	5	36
Total	1,835	706	38

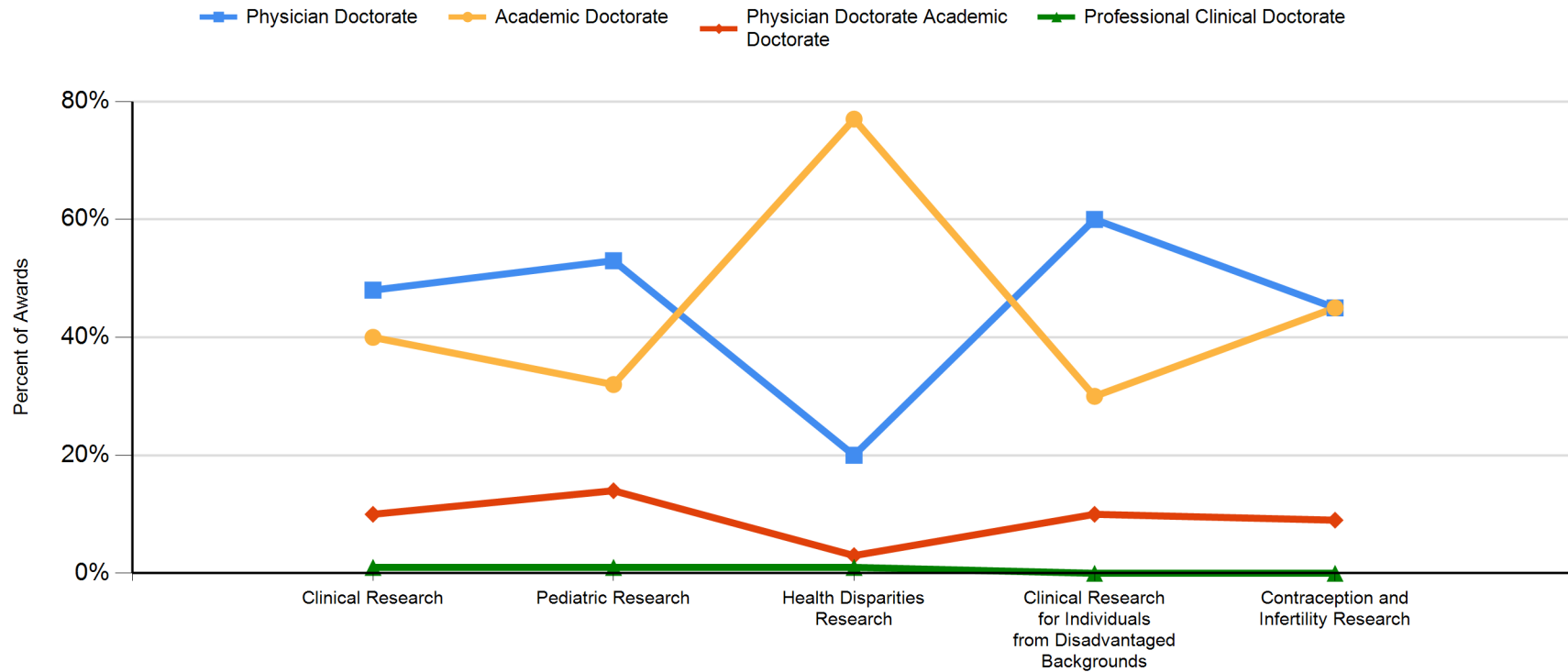
LRP Awards by Doctoral Degree (New)



	n	%	n	%	n	%	n	%	n	%
Physician Doctorate	172	44	82	49	22	18	6	67	8	47
Academic Doctorate	172	44	69	41	97	80	3	33	8	47
Physician Doctorate/Academic Doctorate	36	9	13	8	1	1	0	0	1	6
Professional Clinical Doctorate	9	2	4	2	2	2	0	0	0	0

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

LRP Awards by Doctoral Degree (Renewal)



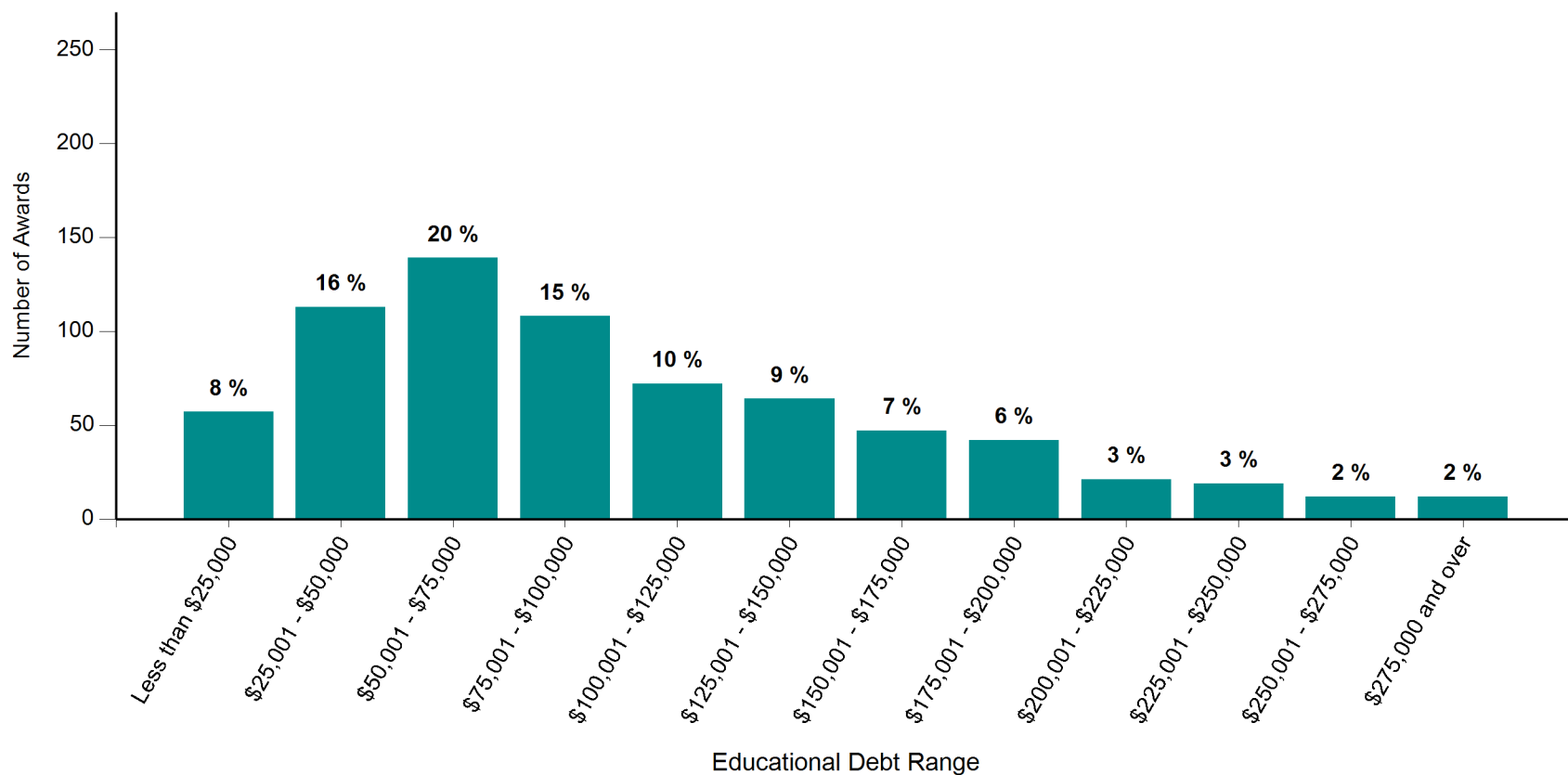
	n	%	n	%	n	%	n	%	n	%
Physician Doctorate	238	48	113	53	24	20	6	60	5	45
Academic Doctorate	197	40	68	32	92	77	3	30	5	45
Physician Doctorate/Academic Doctorate	51	10	31	14	3	3	1	10	1	9
Professional Clinical Doctorate	7	1	2	1	1	1	0	0	0	0

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	967	513	53
NIH and Non Profit	1,293	740	57
Non Profit Only	840	301	36
Total	3,100	1,554	50

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	249	151	64	20	8	1	493
Pediatric Research	106	64	31	6	6	1	214
Health Disparities Research	70	42	8	0	0	0	120
Clinical Research for Individuals from Disadvantaged Backgrounds	5	3	0	1	1	0	10
Contraception and Infertility Research	7	4	0	0	0	0	11
Total	437	264	103	27	15	2	848

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	877	479	55	808	403	50	54	46
Pediatric Research	338	183	54	419	199	47	48	52
Health Disparities Research	150	74	49	403	168	42	31	69
Clinical Research for Individuals from Disadvantaged Backgrounds	11	6	55	23	13	57	32	68
Contraception and Infertility Research	16	6	38	55	23	42	21	79
Total	1,392	748	54	1,708	806	47	48	52

Awardee Demographics by Ethnicity (New + Renewal)

LRP	Awards	Hispanic or Latino		Not Hispanic or Latino	
	N	n	%	n	%
Clinical Research	882	41	5	841	95
Pediatric Research	382	15	4	367	96
Health Disparities Research	242	29	12	213	88
Clinical Research for Individuals from Disadvantaged Backgrounds	19	7	37	12	63
Contraception and Infertility Research	29	*	*	27	93
Total	1,554	94	6	1,460	94

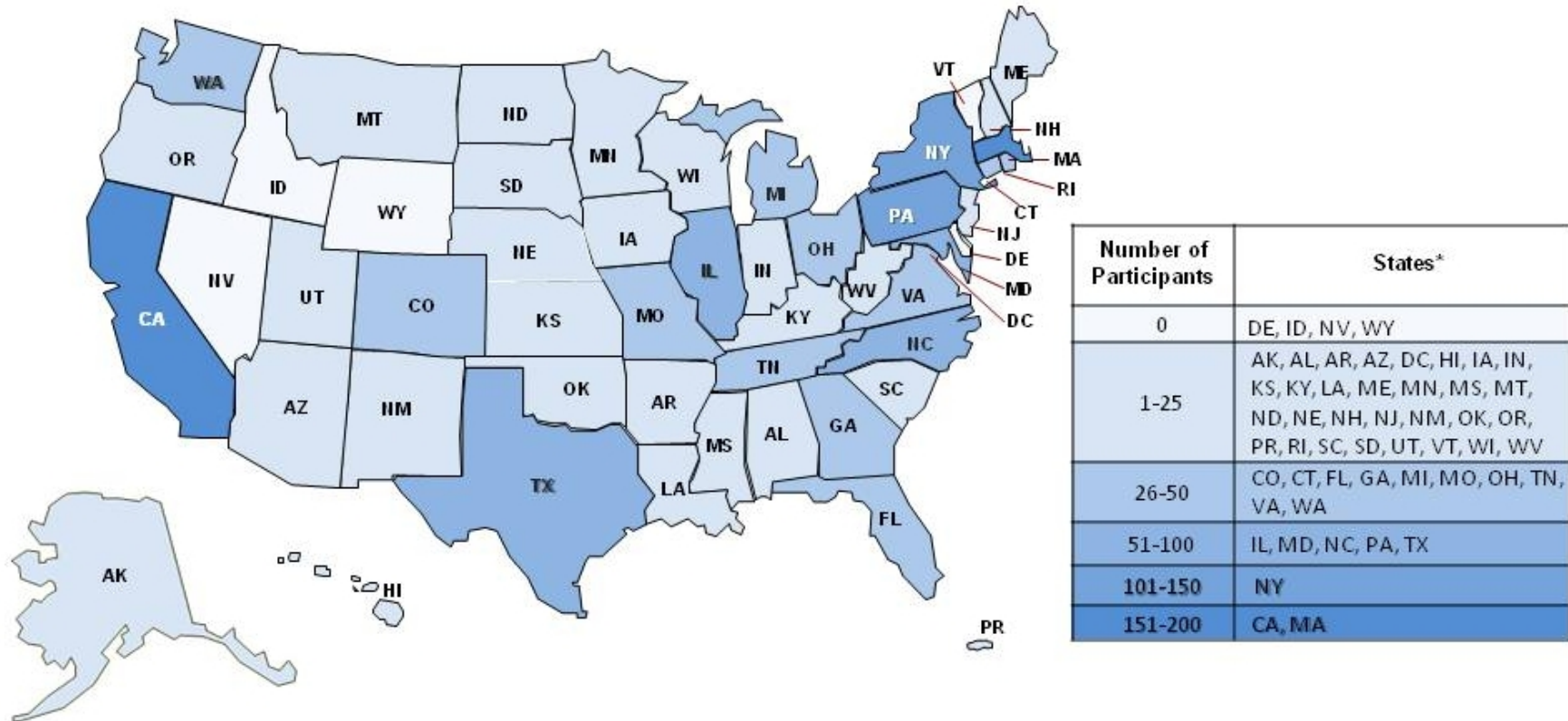
*Restricted Data – small-sized groups cannot be reported due to participant confidentiality considerations.

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	882	*	*	23	3	115	13	*	*	644	73	16	2	82	9
Pediatric Research	382	*	*	10	3	40	10	*	*	293	77	12	3	24	6
Health Disparities Research	242	*	*	67	28	27	11	*	*	104	43	13	5	27	11
Clinical Research for Individuals from Disadvantaged Backgrounds	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Contraception and Infertility Research	29	*	*	*	*	*	*	*	*	19	66	*	*	*	*
Total	1,554	10	1	105	7	187	12	*	*	1,065	69	45	3	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>**