



# FY 2004 DATA BOOK

Extramural Loan Repayment Programs

NIH Division of Loan Repayment

Revised: March 1, 2014

## Fiscal Year 2004 Highlights

Fiscal Year period covers  
October 1, 2003 to September 30, 2004

## Application Cycle:

September 1 - December 31, 2003

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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) 2004, 2,411 applicants 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, 1,407 were awarded contracts in the amount of \$67,963,355 overall. The success rate for the Extramural LRPs across NIH was 58 percent.

The LRP with the largest number of applications was the Extramural Clinical Research LRP which received 1,371 or 57 percent of all applications. Approximately 61 percent of Extramural Clinical Research LRP contracts were funded.

New applicants (those not previously funded) constituted 81 percent of all applications while renewal applicants (those previously funded) comprised 19 percent of all applicants. Success rates for new and renewal applicants were 52 and 87 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 2004 awardees were fairly early in their careers, with 90 percent having received their post-graduate degrees within the previous 10 years, and 58 percent of awards, within the past 5 years.

MDs (including those with MD/PhD degrees) comprised 56 percent of the 1,407 awardees, while those with PhDs (including those with PhDs and any other combined degree other than MD) comprised 37 percent of the total awards.

The educational debt level of 62 percent of the 1,407 awardees was greater than \$50,000 with 6 percent having debt levels greater than \$200,000.

Compared to men, women received a slightly higher percentage of awards in FY 2004 (53 percent). Minorities, which included Asian/Pacific Islanders, African-Americans, Hispanics, and Native Americans, were recipients of 27 percent (or 378) of FY 2004 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:

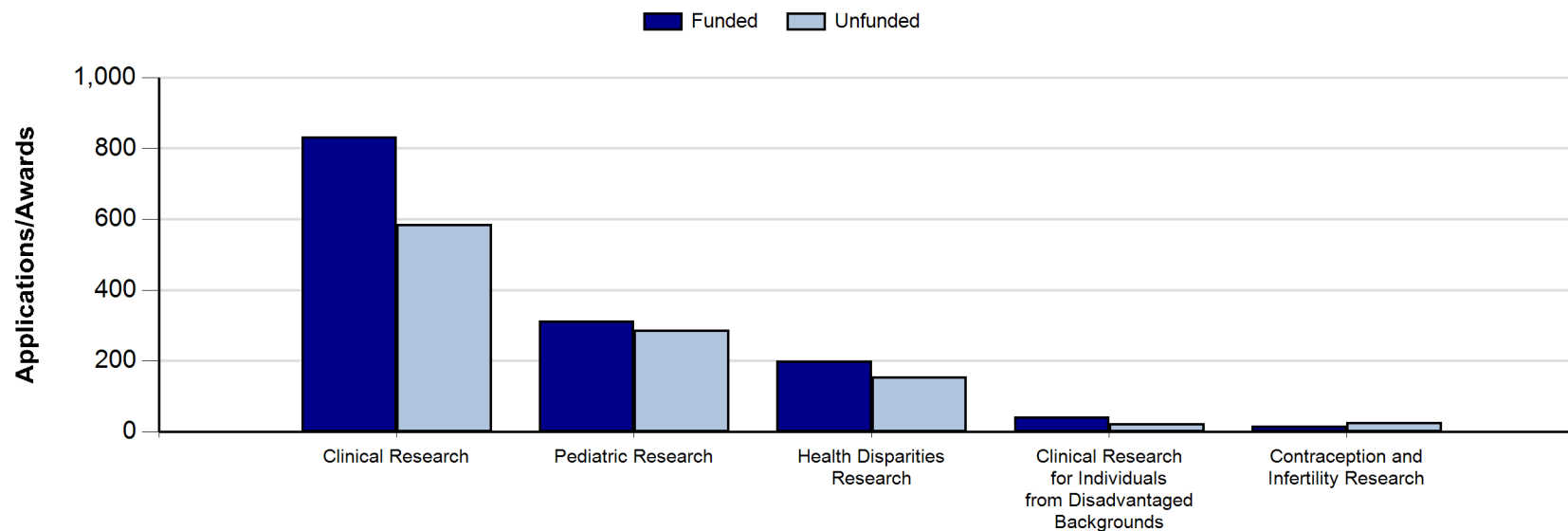
For this program, an individual from a disadvantaged background is defined according to low family income levels set by the U.S. Bureau of the Census – as published in the Federal Register.

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:

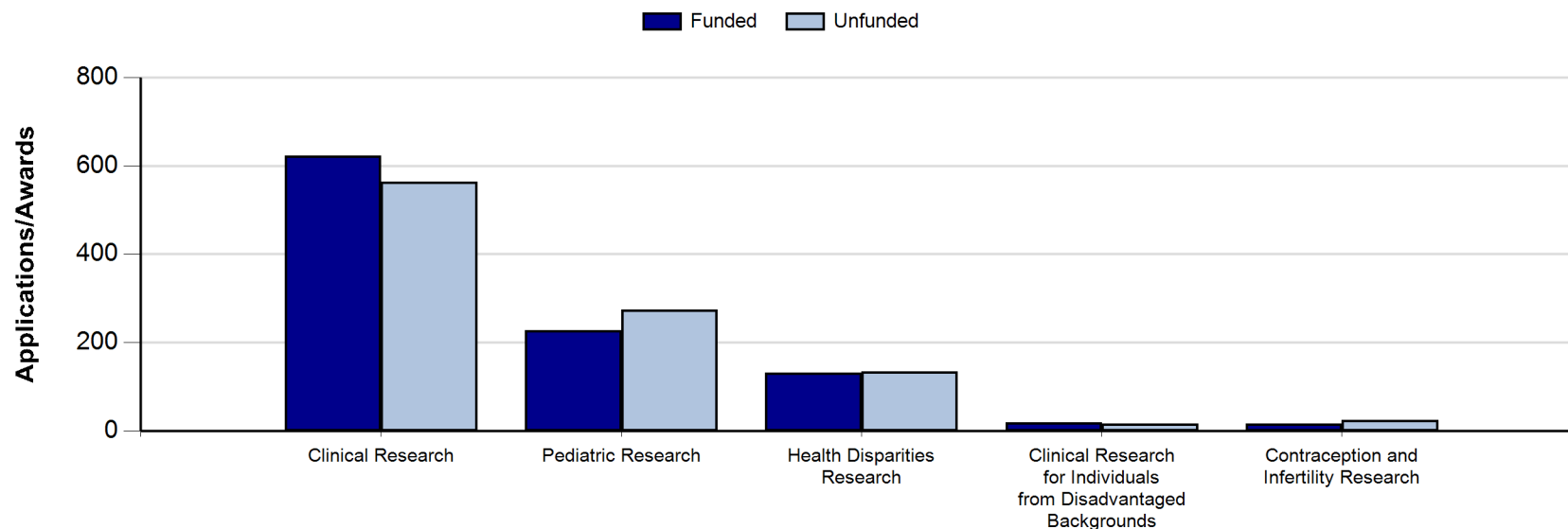
Contraception research is defined as research whose ultimate goal is to provide new or improved methods of preventing pregnancy. Infertility research is defined as research whose long-range objective is to evaluate, treat, or ameliorate conditions which result in the failure of couples to either conceive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

## Funded and Unfunded Applications by Program (New + Renewal)



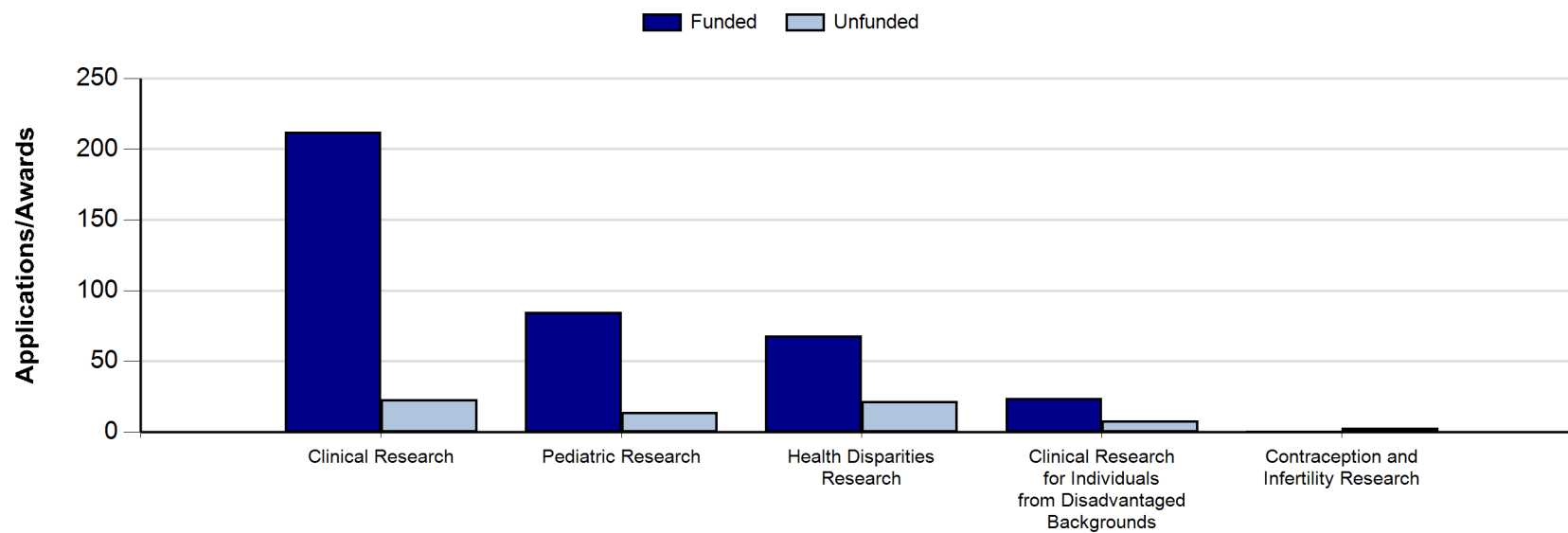
Applications, N	1,420		601		356		67		44	
Funded n, %	834	59	313	52	200	56	43	64	17	39
Unfunded n, %	586	41	288	48	156	44	24	36	27	61

## Funded and Unfunded Applications by Program (New)



Applications, N	1,185		502		266		35		40	
Funded n, %	622	52	228	45	132	50	19	54	16	40
Unfunded n, %	563	48	274	55	134	50	16	46	24	60

## Funded and Unfunded Applications by Program (Renewal)



Applications, N	235		99		90		32		4	
Funded, n, %	212	90	85	86	68	76	24	75	1	25
Unfunded, n, %	23	10	14	14	22	24	8	25	3	75



## 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	1,420	834	59	1,185	622	52	235	212	90
Pediatric Research	601	313	52	502	228	45	99	85	86
Health Disparities Research	356	200	56	266	132	50	90	68	76
Clinical Research for Individuals from Disadvantaged Backgrounds	67	43	64	35	19	54	32	24	75
Contraception and Infertility Research	44	17	39	40	16	40	4	1	25
<b>Total</b>	<b>2,488</b>	<b>1,407</b>	<b>57</b>	<b>2,028</b>	<b>1,017</b>	<b>50</b>	<b>460</b>	<b>390</b>	<b>85</b>

## Funding by Program (New + Renewal)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	834	\$40,162,159	\$48,156	\$33,278
Pediatric Research	313	\$15,768,642	\$50,379	\$33,814
Health Disparities Research	200	\$8,611,701	\$43,059	\$30,746
Clinical Research for Individuals from Disadvantaged Backgrounds	43	\$1,666,283	\$38,751	\$24,250
Contraception and Infertility Research	17	\$1,053,202	\$61,953	\$40,545
<b>Total</b>	<b>1,407</b>	<b>\$67,261,987</b>	<b>\$47,805</b>	<b>\$33,008</b>

## Funding by Program (New)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	622	\$33,944,699	\$54,573	\$33,866
Pediatric Research	228	\$13,169,407	\$57,761	\$33,590
Health Disparities Research	132	\$6,598,033	\$49,985	\$31,419
Clinical Research for Individuals from Disadvantaged Backgrounds	19	\$1,032,212	\$54,327	\$24,443
Contraception and Infertility Research	16	\$947,145	\$59,197	\$40,196
<b>Total</b>	<b>1017</b>	<b>\$55,691,495</b>	<b>\$54,761</b>	<b>\$33,469</b>

## Funding by Program (Renewal)

LRP	Awards	Funding	Mean Award	Standard Deviation
Clinical Research	212	\$6,217,461	\$29,328	\$22,775
Pediatric Research	85	\$2,599,235	\$30,579	\$25,555
Health Disparities Research	68	\$2,013,668	\$29,613	\$24,487
Clinical Research for Individuals from Disadvantaged Backgrounds	24	\$634,071	\$26,420	\$15,722
Contraception and Infertility Research	1	\$106,057	\$106,057	
<b>Total</b>	<b>390</b>	<b>\$11,570,492</b>	<b>\$29,668</b>	<b>\$23,583</b>

## Funding by NIH Institutes and Centers (New)

IC	Awards	Funding	Mean Award	Standard Deviation
NCMHD	151	\$7,630,245	\$50,531	\$30,592
NCI	128	\$6,788,297	\$53,034	\$32,971
NHLBI	113	\$7,839,393	\$69,375	\$31,841
NICHD	89	\$4,356,838	\$48,953	\$34,829
NIMH	89	\$3,944,612	\$44,321	\$33,600
NIAID	73	\$4,612,070	\$63,179	\$33,917
NIDA	61	\$2,997,960	\$49,147	\$31,651
NIDDK	58	\$3,330,072	\$57,415	\$32,285
NIA	41	\$2,077,163	\$50,663	\$31,963
NCRR	38	\$2,422,484	\$63,750	\$34,489
NIAAA	31	\$1,393,949	\$44,966	\$31,093
NINDS	29	\$1,577,016	\$54,380	\$30,135
NIAMS	25	\$1,578,997	\$63,160	\$33,778
NIDCD	25	\$987,649	\$39,506	\$29,921
NEI	21	\$1,293,536	\$61,597	\$29,882
NIDCR	12	\$652,022	\$54,335	\$42,930
NIGMS	9	\$674,709	\$74,968	\$28,985
NLM	7	\$410,209	\$58,601	\$42,787
NCCAM	5	\$375,885	\$75,177	\$35,478
NIEHS	5	\$263,190	\$52,638	\$39,769
NHGRI	4	\$243,831	\$60,958	\$50,302
FIC	1	\$106,057	\$0	\$0
NIBIB	1	\$106,057	\$0	\$0
NINR	1	\$29,256	\$0	\$0
<b>Total</b>	<b>1,017</b>	<b>\$55,691,495</b>	<b>\$54,761</b>	<b>\$33,469</b>

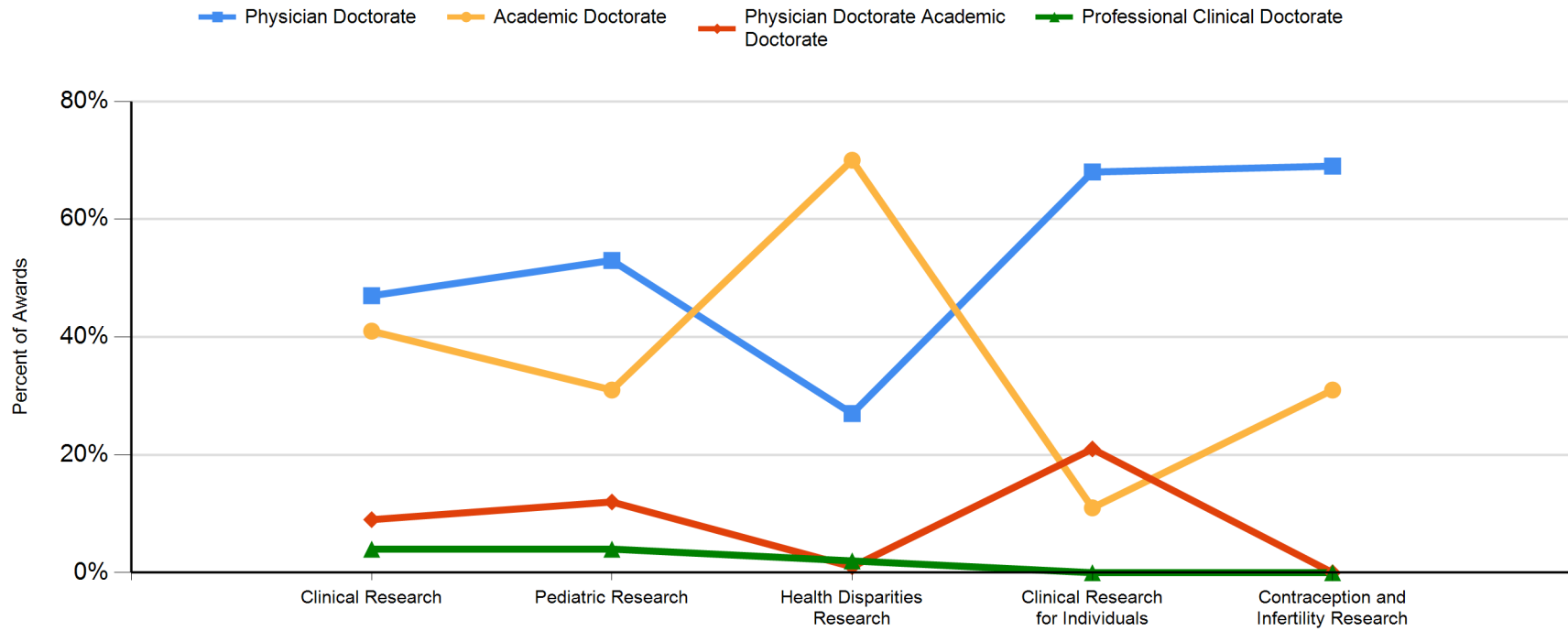
## Funding by NIH Institutes and Centers (Renewal)

IC	Awards	Funding	Mean Award	Standard Deviation
NCMHD	92	\$2,647,739	\$28,780	\$22,493
NCI	48	\$1,314,563	\$27,387	\$23,805
NIMH	39	\$988,968	\$25,358	\$18,418
NIAID	34	\$952,222	\$28,007	\$21,873
NINDS	23	\$986,963	\$42,911	\$32,497
NHLBI	22	\$732,896	\$33,313	\$33,197
NIDDK	22	\$629,099	\$28,595	\$19,344
NCRR	22	\$476,629	\$21,665	\$15,405
NICHD	18	\$791,901	\$43,994	\$32,646
NIDA	17	\$457,930	\$26,937	\$15,704
NIA	16	\$439,406	\$27,463	\$19,595
NEI	9	\$349,969	\$38,885	\$29,231
NIAAA	8	\$172,447	\$21,556	\$17,187
NIEHS	6	\$179,494	\$29,916	\$27,058
NIAMS	5	\$144,320	\$28,864	\$18,662
NIDCD	3	\$72,716	\$24,239	\$5,916
NCCAM	2	\$85,333	\$42,666	\$21,950
NIDCR	2	\$76,378	\$38,189	\$20,986
NIGMS	1	\$47,256	\$0	\$0
NIBIB	1	\$24,264	\$0	\$0
FIC	0	\$0	\$0	\$0
NHGRI	0	\$0	\$0	\$0
NINR	0	\$0	\$0	\$0
NLM	0	\$0	\$0	\$0
<b>Total</b>	<b>390</b>	<b>\$11,570,492</b>	<b>\$29,668</b>	<b>\$23,583</b>

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

Years Since Degree	Applications N	Awards n	Success rate %
<1 Year	43	12	28
1 to 5 Years	1,210	582	48
6 to 10 Years	632	355	56
11 to 15 Years	108	56	52
15+ Years	35	12	34
<b>Total</b>	<b>2,028</b>	<b>1,017</b>	<b>50</b>

## LRP Awards by Doctoral Degree (New)

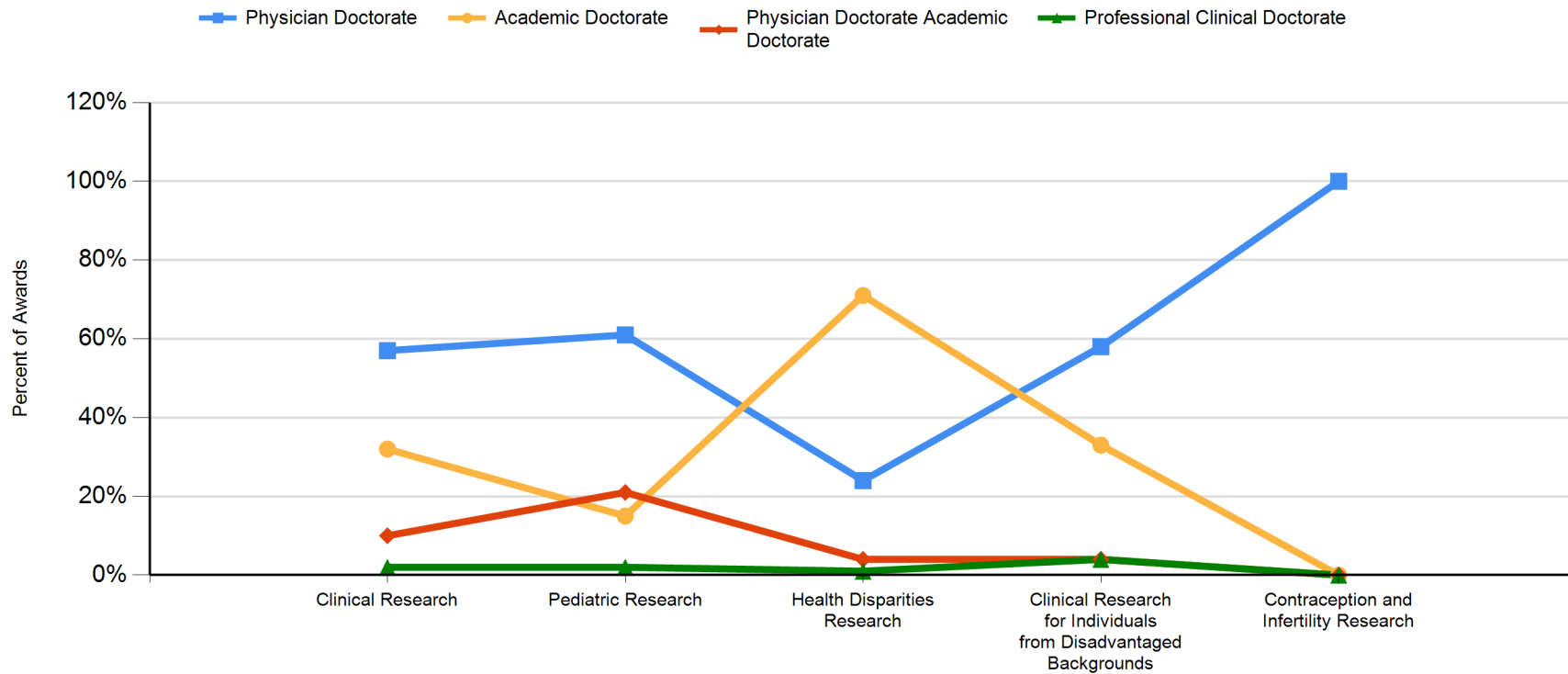


	n	%	n	%	n	%	n	%	n	%
Physician Doctorate	291	47	121	53	36	27	13	68	11	69
Academic Doctorate	252	41	71	31	93	70	2	11	5	31
Physician Doctorate/Academic Doctorate	56	9	28	12	1	1	4	21	0	0
Professional Clinical Doctorate	23	4	8	4	2	2	0	0	0	0

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



## LRP Awards by Doctoral Degree (Renewal)



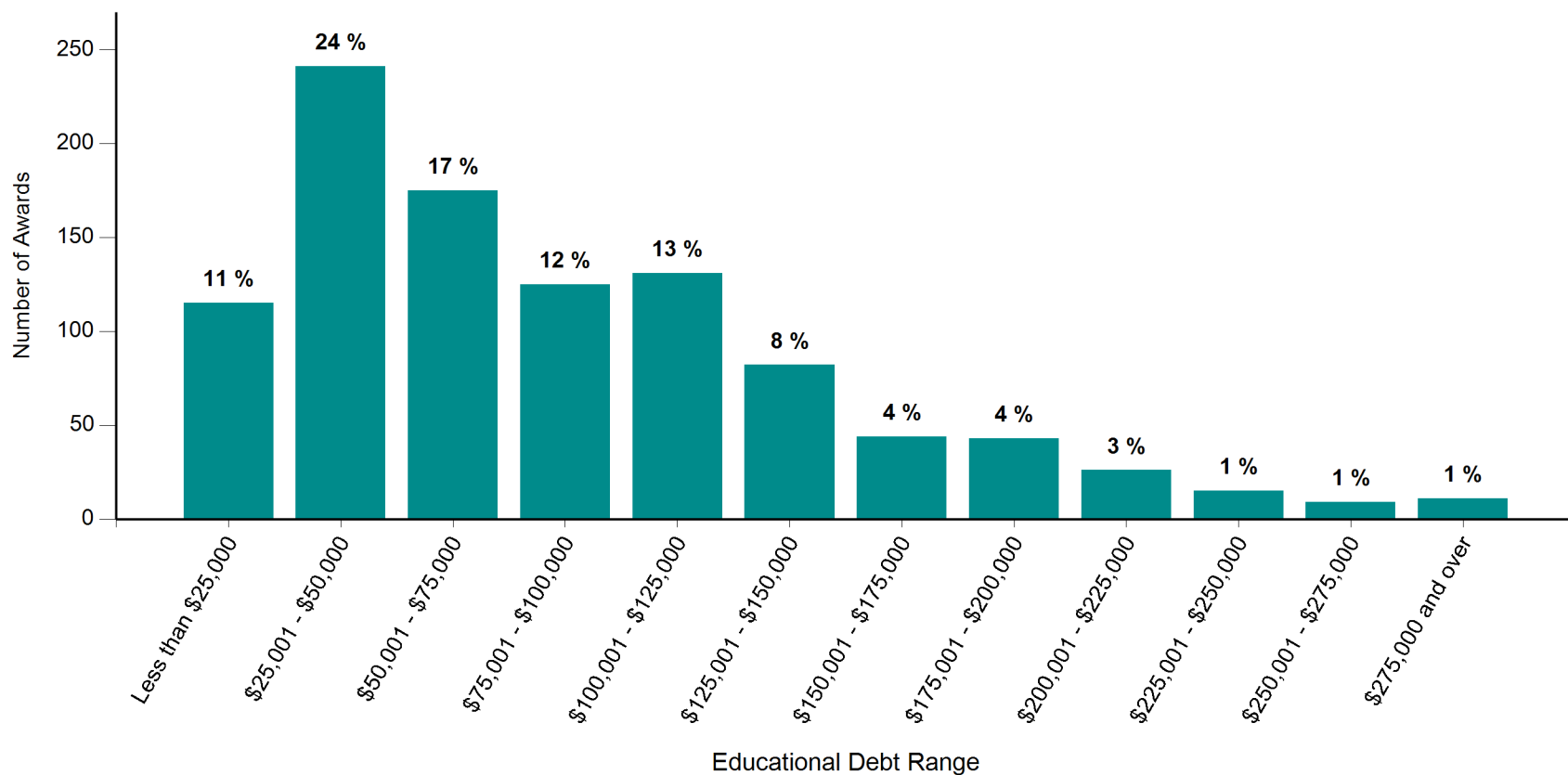
	n	%	n	%	n	%	n	%	n	%
Physician Doctorate	120	57	52	61	16	24	14	58	1	100
Academic Doctorate	67	32	13	15	48	71	8	33	0	0
Physician Doctorate/Academic Doctorate	21	10	18	21	3	4	1	4	0	0
Professional Clinical Doctorate	4	2	2	2	1	1	1	4	0	0

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	946	567	60
NIH and Non Profit	855	584	68
Non Profit Only	687	256	37
<b>Total</b>	<b>2,488</b>	<b>1,407</b>	<b>57</b>

### Educational Debt Levels of LRP Awardees (New)



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

## 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	753	442	59	667	392	59	53	47
Pediatric Research	276	155	56	325	158	49	50	50
Health Disparities Research	108	59	55	248	141	57	30	71
Clinical Research for Individuals from Disadvantaged Backgrounds	27	14	52	40	29	73	33	67
Contraception and Infertility Research	16	5	31	28	12	43	29	71
<b>Total</b>	<b>1,180</b>	<b>675</b>	<b>57</b>	<b>1,308</b>	<b>732</b>	<b>56</b>	<b>48</b>	<b>52</b>

## Awardee Demographics by Ethnicity (New + Renewal)

LRP	Awards	Hispanic or Latino		Not Hispanic or Latino	
	N	n	%	n	%
Clinical Research	834	37	4	797	96
Pediatric Research	313	10	3	303	97
Health Disparities Research	200	23	12	177	89
Clinical Research for Individuals from Disadvantaged Backgrounds	43	8	19	35	81
Contraception and Infertility Research	17	*	*	13	76
<b>Total</b>	<b>1,407</b>	<b>82</b>	<b>6</b>	<b>1,325</b>	<b>94</b>

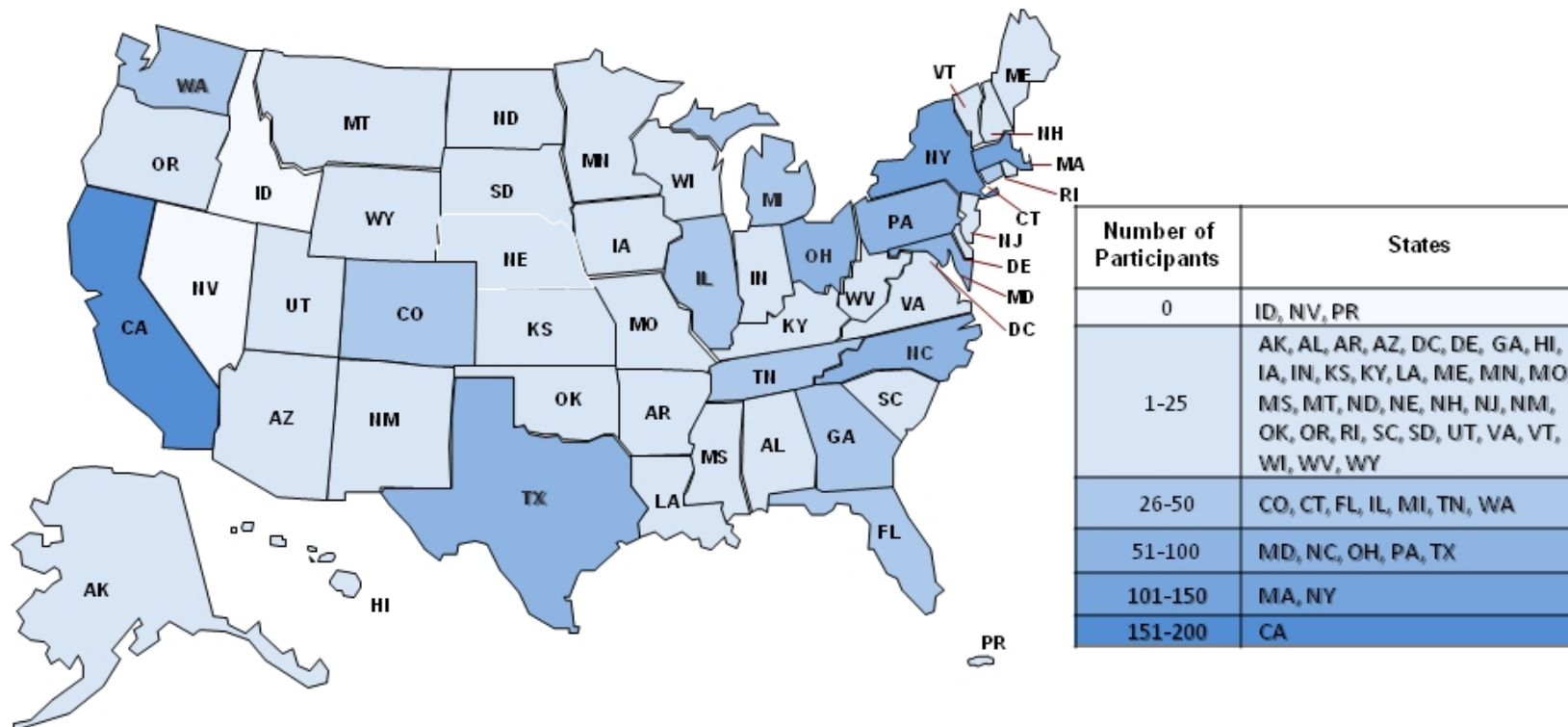
\*Restricted Data – small-sized groups cannot be reported due to participant confidentiality considerations.

## 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	%	
Clinical Research	834	*	*	28	3	92	11	*	*	609	73	9	1	94	11
Pediatric Research	313	*	*	7	2	38	12	*	*	231	74	*	*	33	11
Health Disparities Research	200	*	*	66	33	15	8	*	*	76	38	*	*	35	18
Clinical Research for Individuals from Disadvantaged Backgrounds	43	*	*	12	28	7	16	*	*	14	33	*	*	8	19
Contraception and Infertility Research	17	*	*	*	*	*	*	*	*	6	35	*	*	7	41
<b>Total</b>	<b>1,407</b>	<b>9</b>	<b>1</b>	<b>115</b>	<b>8</b>	<b>154</b>	<b>11</b>	<b>*</b>	<b>*</b>	<b>936</b>	<b>67</b>	<b>15</b>	<b>1</b>	<b>177</b>	<b>13</b>

\*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>**