



FY 2011 DATA BOOK

Extramural Loan Repayment Programs

NIH Division of Loan Repayment

Revised: March 1, 2014

Fiscal Year 2011 Highlights

Fiscal Year period covers
October 1, 2010 to September 30, 2011

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 Research Resources (NCRR)

* Participating in the Extramural Loan Repayment Programs

The Year in Review

In Fiscal Year (FY) 2011, 3,159 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, 1,572 were awarded contracts totaling \$72,402,447. The combined (new and renewal applicants) success rate for the Extramural LRPs was 50 percent.

The Extramural Clinical Research LRP received 51 percent (1,604) of all applications.

New applicants (those not previously funded) constituted 61 percent of all applications while renewal applicants (those previously funded) comprised 39 percent of all applicants. Success rates for new and renewal applicants were 39 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 2011 awardees are beginning their careers, with 62 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 51 percent of the 1,572 awards, while those with academic doctoral level degrees comprised 47 percent of the total awards.

Seventy-five percent of the new awardees had educational debt greater than \$50,000, with 10 percent having debt levels greater than \$200,000. Women received 853 of the 1,572 LRP awards. Black/African American applicants received 118 awards. Asians received 171 awards. Hispanics received 86 awards. American Indians/Alaska Natives were recipients of 9 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:

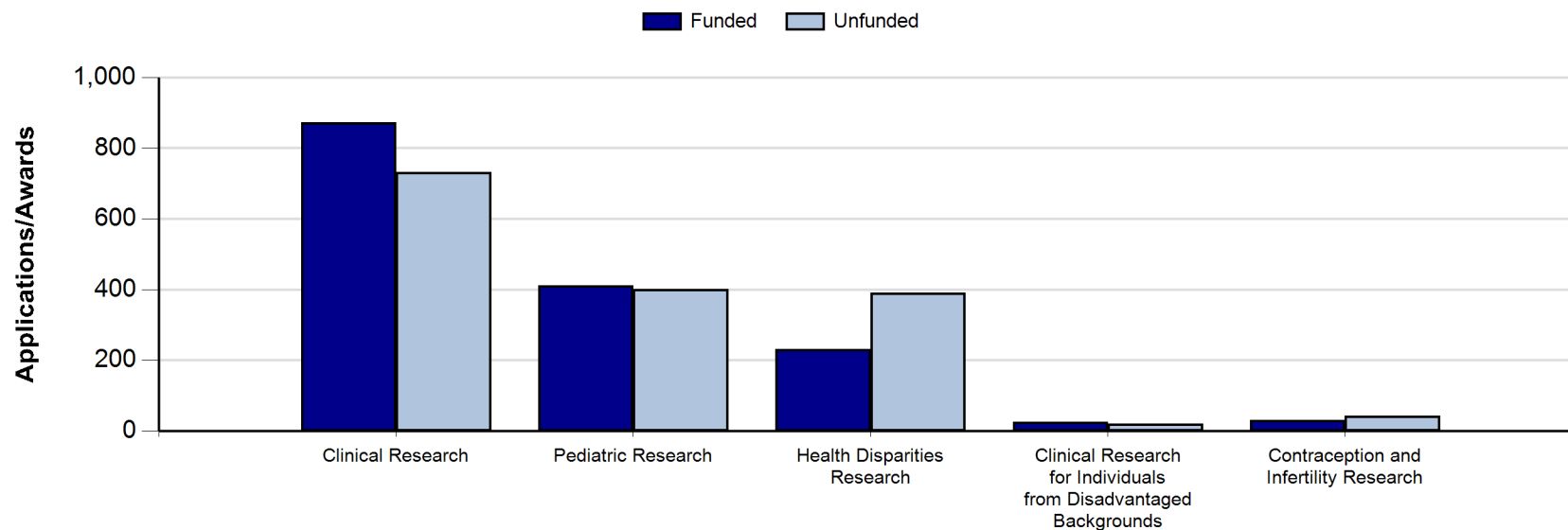
For this program, an individual from a disadvantaged background is defined according to low family income levels set by the U.S. Bureau of the Census – as published in the Federal Register.

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:

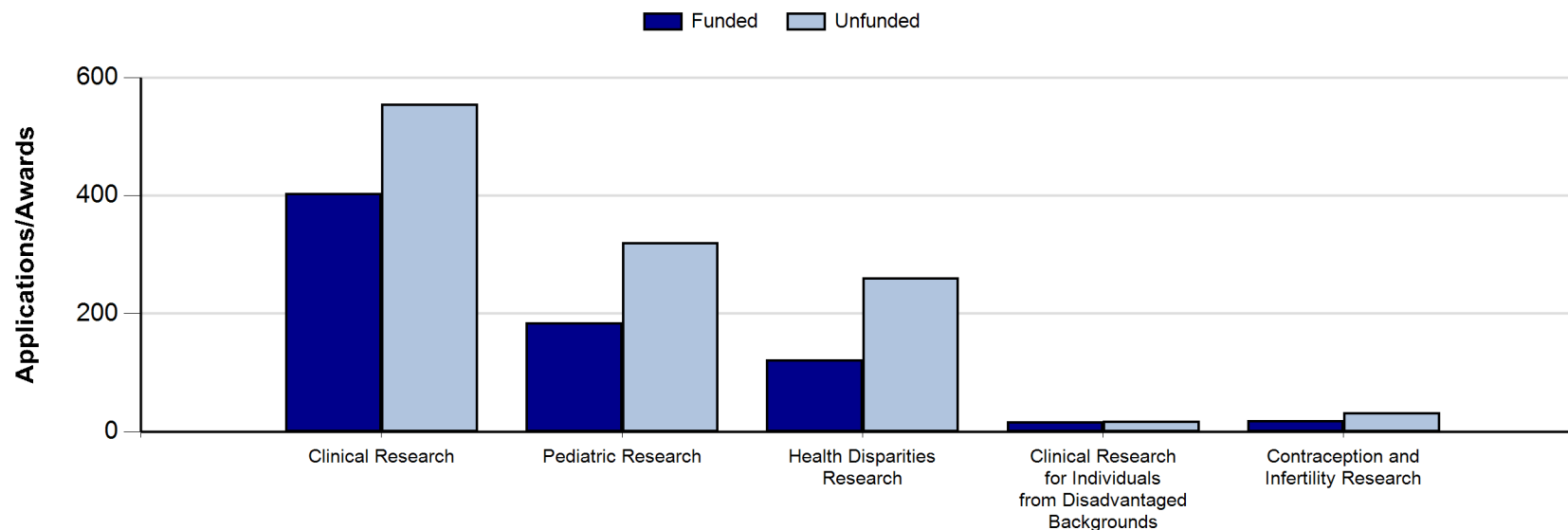
Contraception research is defined as research whose ultimate goal is to provide new or improved methods of preventing pregnancy. Infertility research is defined as research whose long-range objective is to evaluate, treat, or ameliorate conditions which result in the failure of couples to either conceive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

Funded and Unfunded Applications by Program (New + Renewal)



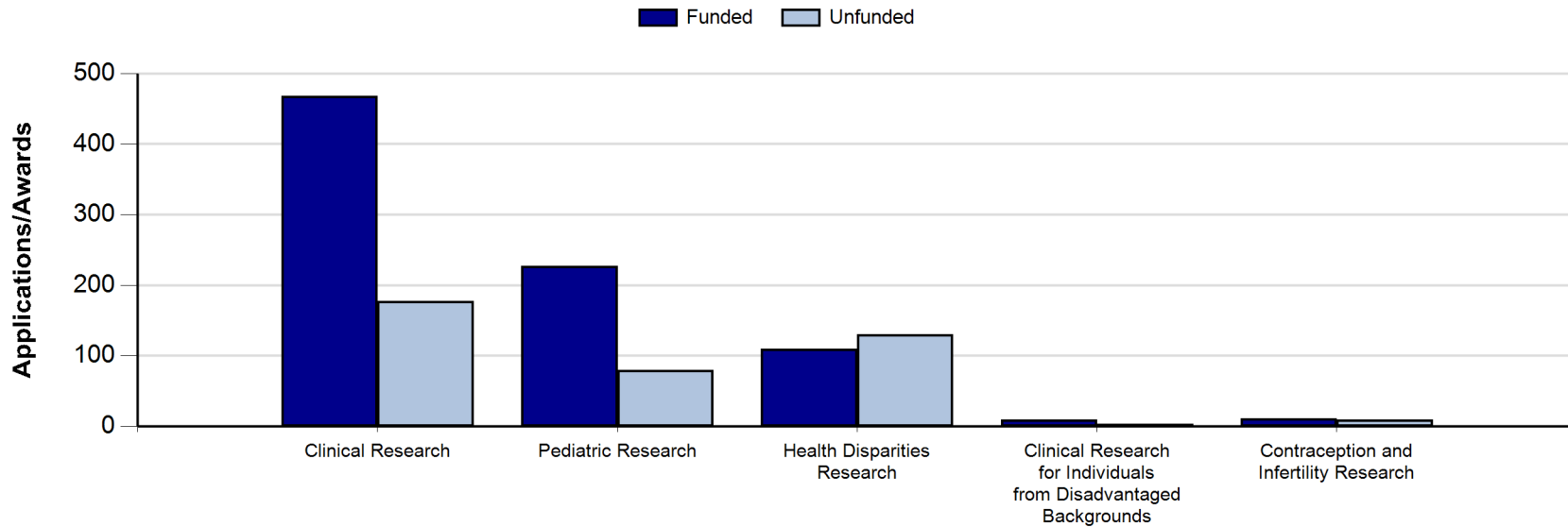
| | | | | | | | | | | |
|-----------------|-------|----|-----|----|-----|----|----|----|----|----|
| Applications, N | 1,604 | | 813 | | 623 | | 47 | | 72 | |
| Funded n, % | 872 | 54 | 412 | 51 | 232 | 37 | 26 | 55 | 30 | 42 |
| Unfunded n, % | 732 | 46 | 401 | 49 | 391 | 63 | 21 | 45 | 42 | 58 |

Funded and Unfunded Applications by Program (New)



| | | | | | | | | | | |
|-----------------|-----|----|-----|----|-----|----|----|----|----|----|
| Applications, N | 959 | | 506 | | 383 | | 35 | | 52 | |
| Funded n, % | 404 | 42 | 185 | 37 | 122 | 32 | 17 | 49 | 19 | 37 |
| Unfunded n, % | 555 | 58 | 321 | 63 | 261 | 68 | 18 | 51 | 33 | 63 |

Funded and Unfunded Applications by Program (Renewal)



| | | | | | | | | | | |
|-----------------|-----|----|-----|----|-----|----|----|----|----|----|
| Applications, N | 645 | | 307 | | 240 | | 12 | | 20 | |
| Funded, n, % | 468 | 73 | 227 | 74 | 110 | 46 | 9 | 75 | 11 | 55 |
| Unfunded, n, % | 177 | 27 | 80 | 26 | 130 | 54 | 3 | 25 | 9 | 45 |

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 | 1,604 | 872 | 54 | 959 | 404 | 42 | 645 | 468 | 73 |
| Pediatric Research | 813 | 412 | 51 | 506 | 185 | 37 | 307 | 227 | 74 |
| Health Disparities Research | 623 | 232 | 37 | 383 | 122 | 32 | 240 | 110 | 46 |
| Clinical Research for Individuals from Disadvantaged Backgrounds | 47 | 26 | 55 | 35 | 17 | 49 | 12 | 9 | 75 |
| Contraception and Infertility Research | 72 | 30 | 42 | 52 | 19 | 37 | 20 | 11 | 55 |
| Total | 3,159 | 1,572 | 50 | 1,935 | 747 | 39 | 1,224 | 825 | 67 |

Funding by Program (New + Renewal)

| LRP | Awards | Funding | Mean Award | Standard Deviation |
|--|--------------|---------------------|-----------------|--------------------|
| Clinical Research | 872 | \$40,453,513 | \$46,392 | \$30,411 |
| Pediatric Research | 412 | \$18,366,597 | \$44,579 | \$30,900 |
| Health Disparities Research | 232 | \$10,453,874 | \$45,060 | \$29,401 |
| Clinical Research for Individuals from Disadvantaged Backgrounds | 26 | \$1,750,481 | \$67,326 | \$33,253 |
| Contraception and Infertility Research | 30 | \$1,325,779 | \$44,193 | \$30,482 |
| Total | 1,572 | \$72,350,244 | \$46,024 | \$30,541 |

Funding by Program (New)

| LRP | Awards | Funding | Mean Award | Standard Deviation |
|--|------------|---------------------|-----------------|--------------------|
| Clinical Research | 404 | \$25,278,584 | \$62,571 | \$30,094 |
| Pediatric Research | 185 | \$11,338,986 | \$61,292 | \$29,876 |
| Health Disparities Research | 122 | \$6,763,239 | \$55,436 | \$29,651 |
| Clinical Research for Individuals from Disadvantaged Backgrounds | 17 | \$1,310,158 | \$77,068 | \$25,296 |
| Contraception and Infertility Research | 19 | \$1,106,873 | \$58,256 | \$28,419 |
| Total | 747 | \$45,797,839 | \$61,309 | \$29,960 |

Funding by Program (Renewal)

| LRP | Awards | Funding | Mean Award | Standard Deviation |
|--|------------|---------------------|-----------------|--------------------|
| Clinical Research | 468 | \$15,174,929 | \$32,425 | \$22,835 |
| Pediatric Research | 227 | \$7,027,612 | \$30,959 | \$24,387 |
| Health Disparities Research | 110 | \$3,690,634 | \$33,551 | \$24,532 |
| Clinical Research for Individuals from Disadvantaged Backgrounds | 9 | \$440,324 | \$48,925 | \$39,914 |
| Contraception and Infertility Research | 11 | \$218,906 | \$19,901 | \$14,690 |
| Total | 825 | \$26,552,405 | \$32,185 | \$23,709 |

Funding by NIH Institutes and Centers (New)

| IC | Awards | Funding | Mean Award | Standard Deviation |
|--------------|------------|---------------------|-----------------|--------------------|
| NCMHD | 139 | \$8,073,397 | \$58,082 | \$29,928 |
| NCI | 100 | \$6,648,549 | \$66,485 | \$29,068 |
| NHLBI | 88 | \$5,927,004 | \$67,352 | \$30,453 |
| NICHHD | 60 | \$3,573,605 | \$59,560 | \$27,964 |
| NIAID | 51 | \$3,041,676 | \$59,641 | \$30,373 |
| NIMH | 50 | \$2,677,180 | \$53,544 | \$28,114 |
| NCRR | 42 | \$1,969,636 | \$46,896 | \$30,142 |
| NIDDK | 40 | \$2,899,530 | \$72,488 | \$28,842 |
| NIDA | 34 | \$2,071,962 | \$60,940 | \$30,539 |
| NIA | 29 | \$1,660,085 | \$57,244 | \$33,434 |
| NINDS | 28 | \$2,270,888 | \$81,103 | \$22,885 |
| NIAMS | 17 | \$992,710 | \$58,395 | \$31,186 |
| NIAAA | 14 | \$690,207 | \$49,301 | \$27,357 |
| NEI | 13 | \$785,628 | \$60,433 | \$24,326 |
| NIEHS | 9 | \$377,952 | \$41,995 | \$19,215 |
| NIGMS | 7 | \$586,136 | \$83,734 | \$26,188 |
| NIDCR | 7 | \$521,784 | \$74,541 | \$28,061 |
| NIDCD | 7 | \$472,079 | \$67,440 | \$27,914 |
| NCCAM | 5 | \$239,587 | \$47,917 | \$29,224 |
| NHGRI | 4 | \$144,148 | \$36,037 | \$24,474 |
| NIBIB | 2 | \$137,901 | \$68,950 | \$10,370 |
| NINR | 1 | \$36,193 | \$0 | \$0 |
| Total | 747 | \$45,797,839 | \$61,309 | \$29,960 |

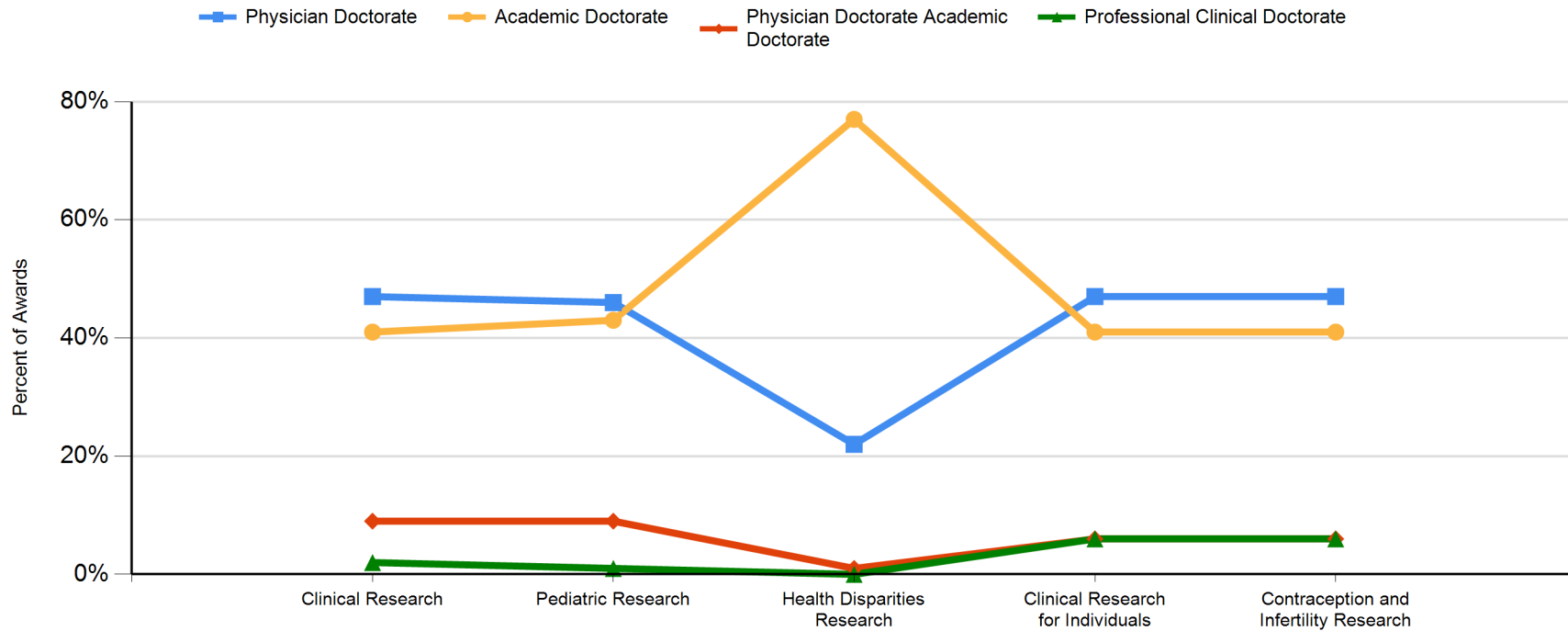
Funding by NIH Institutes and Centers (Renewal)

| IC | Awards | Funding | Mean Award | Standard Deviation |
|--------------|------------|---------------------|-----------------|--------------------|
| NCMHD | 119 | \$4,130,958 | \$34,714 | \$26,088 |
| NCI | 102 | \$3,574,231 | \$35,041 | \$22,016 |
| NHLBI | 85 | \$3,824,754 | \$44,997 | \$29,834 |
| NICHD | 79 | \$1,966,689 | \$24,895 | \$15,168 |
| NIMH | 79 | \$1,950,759 | \$24,693 | \$19,885 |
| NIAID | 70 | \$2,602,922 | \$37,185 | \$26,264 |
| NIDA | 62 | \$1,437,566 | \$23,187 | \$14,778 |
| NINDS | 34 | \$1,225,475 | \$36,043 | \$22,824 |
| NIDDK | 33 | \$1,106,859 | \$33,541 | \$18,257 |
| NCRR | 28 | \$830,790 | \$29,671 | \$27,755 |
| NIAAA | 26 | \$821,011 | \$31,577 | \$24,372 |
| NIA | 26 | \$581,637 | \$22,371 | \$16,314 |
| NIAMS | 20 | \$838,561 | \$41,928 | \$28,218 |
| NEI | 19 | \$761,426 | \$40,075 | \$27,635 |
| NIEHS | 11 | \$199,349 | \$18,123 | \$13,742 |
| NIDCD | 11 | \$169,729 | \$15,430 | \$13,119 |
| NCCAM | 7 | \$149,865 | \$21,409 | \$15,769 |
| NIDCR | 6 | \$138,465 | \$23,077 | \$12,364 |
| NIGMS | 4 | \$116,857 | \$29,214 | \$14,581 |
| NHGRI | 3 | \$92,950 | \$30,983 | \$1,504 |
| NIBIB | 1 | \$31,550 | \$0 | \$0 |
| NINR | 0 | \$0 | \$0 | \$0 |
| Total | 825 | \$26,552,405 | \$32,185 | \$23,709 |

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

| Years Since Degree | Applications N | Awards n | Success rate % |
|--------------------|-------------------|-------------|-------------------|
| <1 Year | 14 | 3 | 21 |
| 1 to 5 Years | 1,189 | 445 | 37 |
| 6 to 10 Years | 608 | 253 | 42 |
| 11 to 15 Years | 102 | 40 | 39 |
| 15+ Years | 22 | 6 | 27 |
| Total | 1,935 | 747 | 39 |

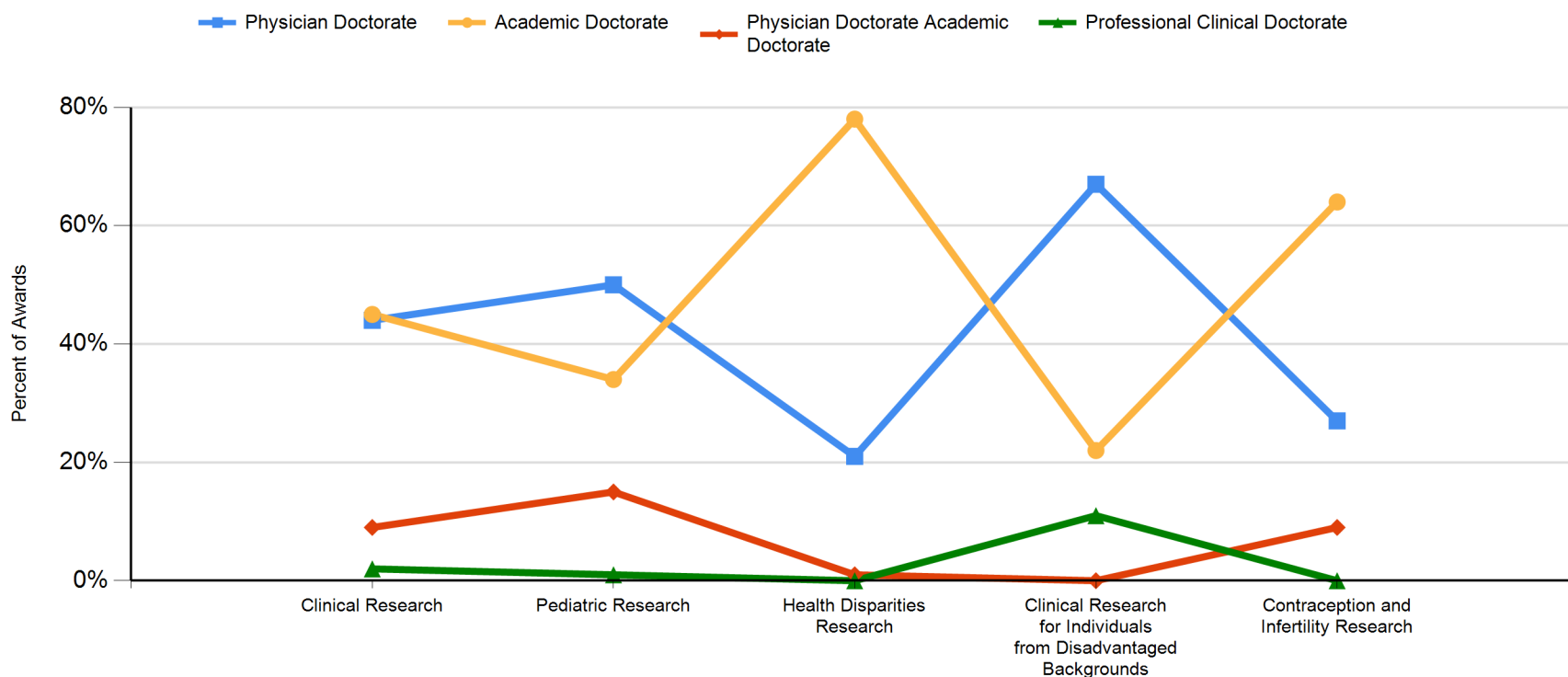
LRP Awards by Doctoral Degree (New)



| | n | % | n | % | n | % | n | % | n | % |
|--|-----|----|----|----|----|----|---|----|---|----|
| Physician Doctorate | 190 | 47 | 86 | 46 | 27 | 22 | 8 | 47 | 8 | 47 |
| Academic Doctorate | 166 | 41 | 80 | 43 | 94 | 77 | 7 | 41 | 7 | 41 |
| Physician Doctorate/Academic Doctorate | 38 | 9 | 17 | 9 | 1 | 1 | 1 | 6 | 1 | 6 |
| Professional Clinical Doctorate | 10 | 2 | 2 | 1 | 0 | 0 | 1 | 6 | 1 | 6 |

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

LRP Awards by Doctoral Degree (Renew)

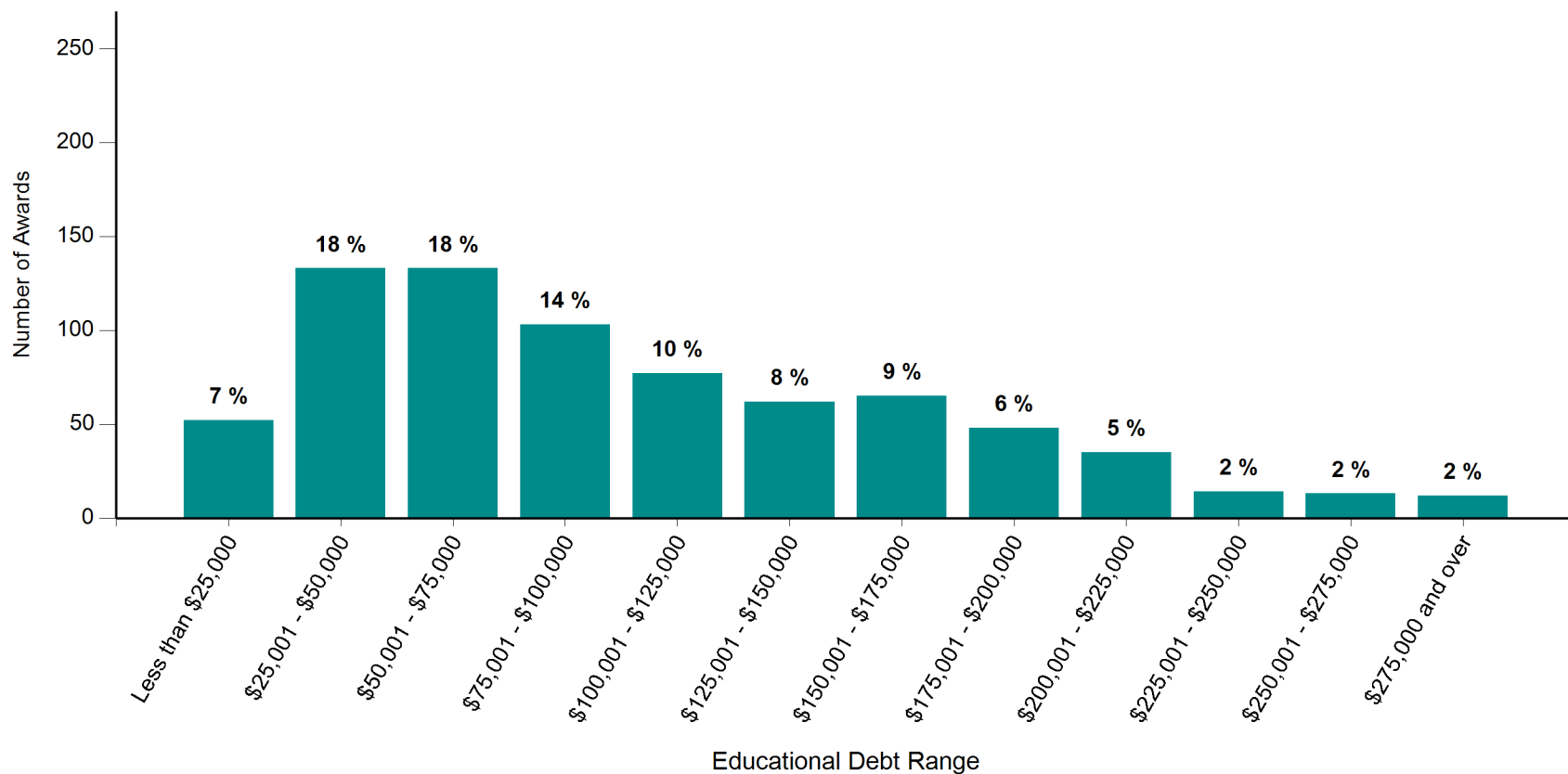


| | n | % | n | % | n | % | n | % | n | % |
|--|-----|----|-----|----|----|----|---|----|---|----|
| Physician Doctorate | 208 | 44 | 114 | 50 | 23 | 21 | 6 | 67 | 3 | 27 |
| Academic Doctorate | 211 | 45 | 78 | 34 | 86 | 78 | 2 | 22 | 7 | 64 |
| Physician Doctorate/Academic Doctorate | 40 | 9 | 33 | 15 | 1 | 1 | 0 | 0 | 1 | 9 |
| Professional Clinical Doctorate | 9 | 2 | 2 | 1 | 0 | 0 | 1 | 11 | 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 | 1,065 | 530 | 50 |
| NIH and Non Profit | 1,215 | 717 | 59 |
| Non Profit Only | 879 | 325 | 37 |
| Total | 3,159 | 1,572 | 50 |

Educational Debt Levels of LRP Awardees (New Awards)



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 | 259 | 144 | 45 | 16 | 4 | 0 | 468 |
| Pediatric Research | 106 | 73 | 29 | 17 | 2 | 0 | 227 |
| Health Disparities Research | 70 | 32 | 4 | 4 | 0 | 0 | 110 |
| Clinical Research for Individuals from Disadvantaged Backgrounds | 5 | 0 | 2 | 2 | 0 | 0 | 9 |
| Contraception and Infertility Research | 7 | 2 | 2 | 0 | 0 | 0 | 11 |
| Total | 447 | 251 | 82 | 39 | 6 | 0 | 825 |

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 | 792 | 452 | 57 | 812 | 420 | 52 | 52 | 48 |
| Pediatric Research | 347 | 191 | 55 | 466 | 221 | 47 | 46 | 54 |
| Health Disparities Research | 162 | 58 | 36 | 461 | 174 | 38 | 25 | 75 |
| Clinical Research for Individuals from Disadvantaged Backgrounds | 13 | 9 | 69 | 34 | 17 | 50 | 35 | 65 |
| Contraception and Infertility Research | 21 | 9 | 43 | 51 | 21 | 41 | 30 | 70 |
| Total | 1,335 | 719 | 54 | 1,824 | 853 | 47 | 46 | 54 |

Awardee Demographics by Ethnicity (New + Renewal)

| LRP | Awards | Hispanic or Latino | | Not Hispanic or Latino | |
|--|--------------|--------------------|----------|------------------------|-----------|
| | N | n | % | n | % |
| Clinical Research | 872 | 36 | 4 | 836 | 96 |
| Pediatric Research | 412 | 15 | 4 | 397 | 96 |
| Health Disparities Research | 232 | 30 | 13 | 202 | 87 |
| Clinical Research for Individuals from Disadvantaged Backgrounds | 26 | * | * | 22 | 85 |
| Contraception and Infertility Research | 30 | * | * | 29 | 97 |
| Total | 1,572 | 86 | 5 | 1,486 | 95 |

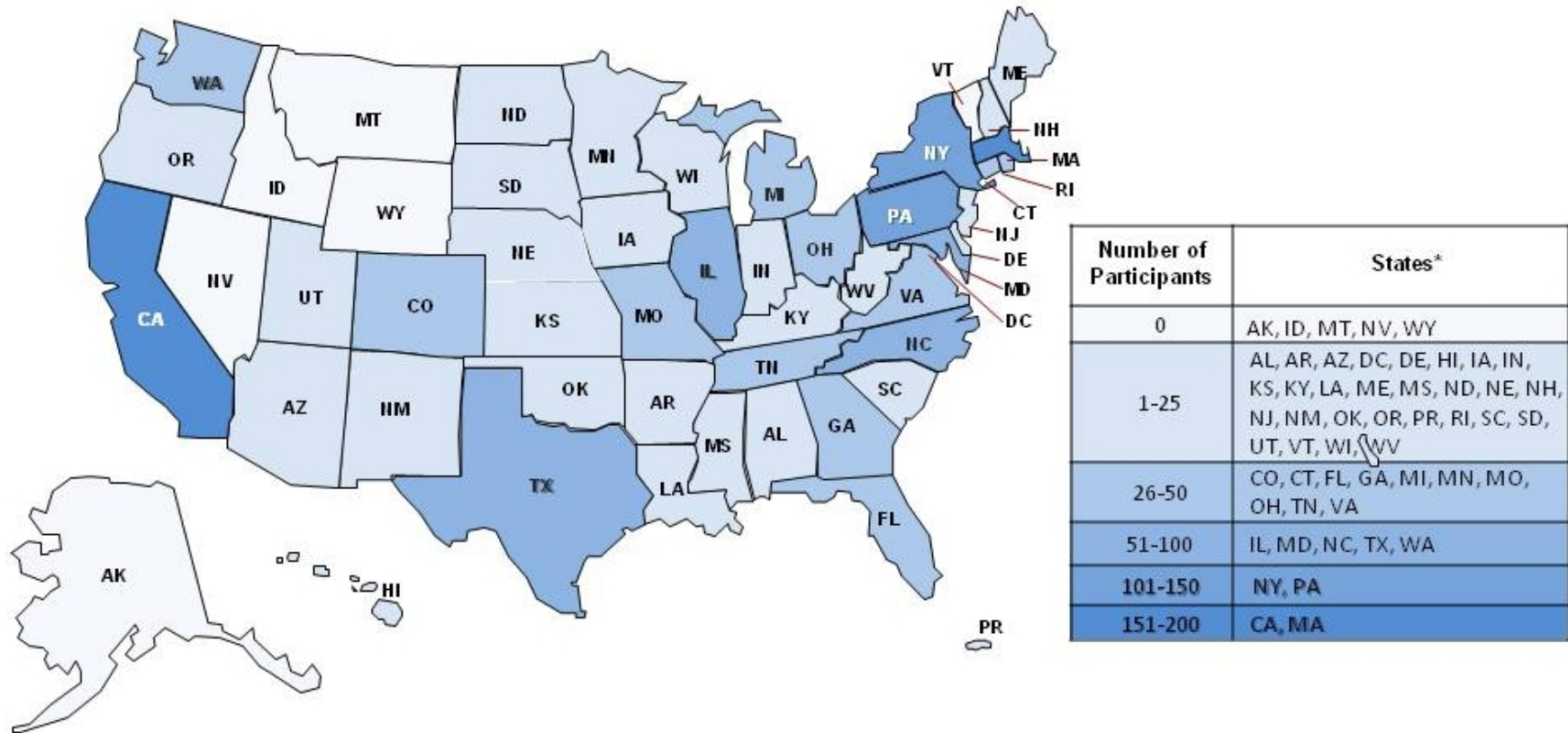
*Restricted Data – small-sized groups cannot be reported due to participant confidentiality considerations.

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 | 872 | * | * | 27 | 3 | 90 | 10 | * | * | 653 | 75 | 25 | 3 | 74 | 8 |
| Pediatric Research | 412 | * | * | 15 | 4 | 50 | 12 | * | * | 299 | 73 | 8 | 2 | 37 | 9 |
| Health Disparities Research | 232 | * | * | 68 | 29 | 28 | 12 | * | * | 88 | 38 | 20 | 9 | 23 | 10 |
| Clinical Research for Individuals from Disadvantaged Backgrounds | 26 | * | * | 8 | 31 | * | * | * | * | 7 | 27 | * | * | * | * |
| Contraception and Infertility Research | 30 | * | * | * | * | * | * | * | * | 22 | 73 | * | * | * | * |
| Total | 1,572 | 9 | 1 | 118 | 8 | 171 | 11 | * | * | 1,069 | 68 | 59 | 4 | 144 | 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>**