

The LRP DATA BOOK

Extramural Loan Repayment Programs



Fiscal Year 2004 Highlights

Application Cycle:

September 1 - December 31, 2003

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

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Fiscal Year 2004 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 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 LRPs

The NIH LRPs are a vital component of our nation's efforts to attract health professionals to careers in clinical, pediatric, health disparity, or contraception and infertility research.

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 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 (Clinical Research-DB):

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 & 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.






FY 2004: Applications, Awards, and Success Rates by LRP (New & Renewal)

In FY 2004, the NIH received more than 2,400 applications to the Extramural LRPs. 81% of the applications were from New Applicants.

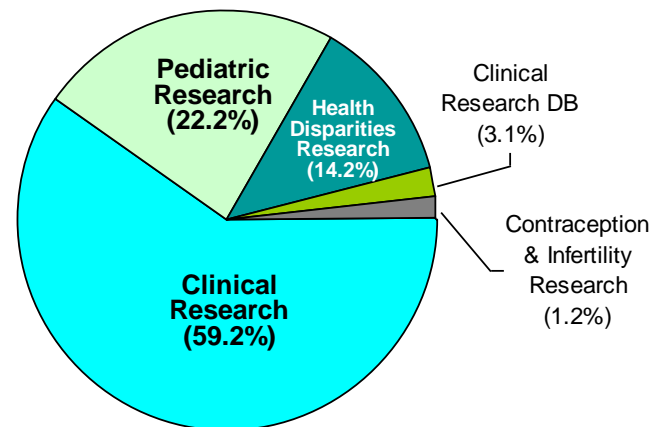
58% of all applicants were awarded contracts.

LRP	New			Renewal			Total		
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	Applications	Awards	Success Rate
Clinical Research	1,142	622	54%	229	212	93%	1,371	834	61%
Pediatric Research	490	228	47%	99	85	86%	589	313	53%
Health Disparities Research	257	132	51%	87	68	78%	344	200	58%
Clinical Research DB	33	19	58%	32	24	75%	65	43	66%
Contraception and Infertility Research	39	16	41%	3	1	33%	42	17	40%
Total:	1,961	1,017	52%	450	390	87%	2,411	1,407	58%

FY 2004: Funding by LRP (New & Renewal Awardees)

LRP	New		Renewal		Total	
	Awards	Funding	Awards	Funding	Awards	Funding
 Clinical Research	622	\$34,323,030	212	\$6,307,473	834	\$40,630,503
 Pediatric Research	228	\$13,286,072	85	\$2,627,647	313	\$15,913,719
 Health Disparities Research	132	\$6,652,809	68	\$2,049,589	200	\$8,702,398
 Clinical Research DB	19	\$1,036,567	24	\$635,452	43	\$1,672,019
 Contraception and Infertility Research	16	\$938,659	1	\$106,057	17	\$1,044,716
Total:	1,017	\$56,237,137	390	\$11,726,218	1,407	\$67,963,355

The Clinical Research LRP funded the largest number of awards in FY 2004.



FY 2004: Funding by NIH Institutes & Centers (ICs) (New & Renewal Awardees)

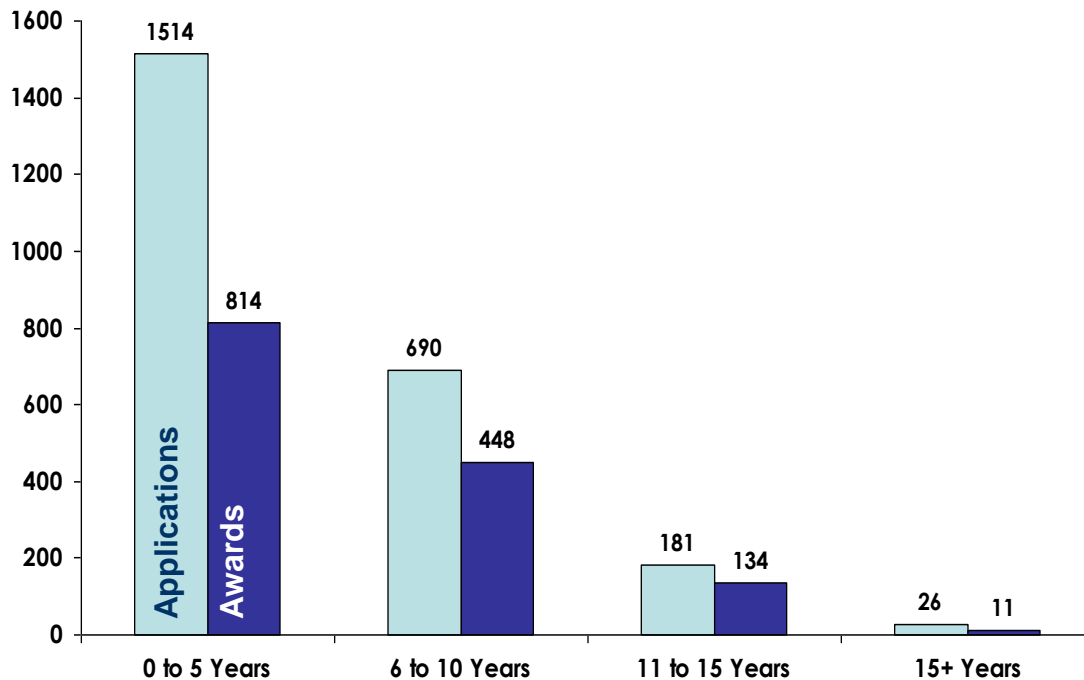
IC	Awards	Funding
NCMHD	243	\$12,521,524
NCI	176	\$8,211,554
NHLBI	135	\$8,661,964
NIMH	128	\$5,010,522
NIAID	107	\$5,614,848
NICHD	107	\$5,171,618
NIDDK	80	\$4,004,379
NIDA	78	\$3,514,458
NCRR	60	\$779,975
NIA	57	\$2,529,507
NINDS	52	\$2,591,840
NIAAA	39	\$1,574,813
NIAMS	30	\$1,728,785
NEI	30	\$1,665,712
NIDCD	28	\$1,066,720
NIDCR	14	\$731,319

IC	Awards	Funding
NIEHS	11	\$456,876
NIGMS	10	\$725,783
NLM	7	\$418,609
NCCAM	7	\$472,338
NHGRI	4	\$243,831
NIBIB	2	\$130,321
NINR	1	\$30,002
FIC	1	\$106,057
Total	1407	\$67,963,355

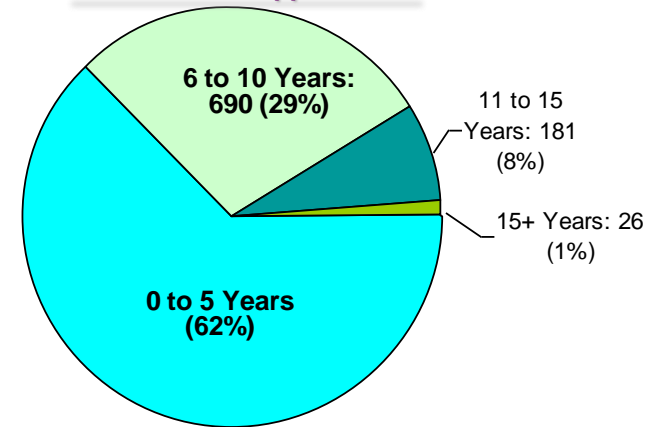
24 Institutes & Centers funded at least one LRP contract in FY 2004.

FY 2004: Applications, Awards, and Success Rates By Post-Degree Years

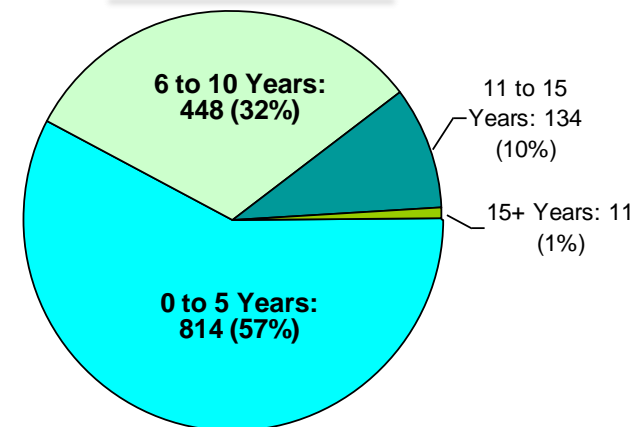
The majority of FY 2004 applicants and awardees were early in their careers, with most having received their doctoral degrees within the past 5 years.



Distribution of Applications



Distribution of Awards



FY 2004: LRP Awards by Doctoral Degree

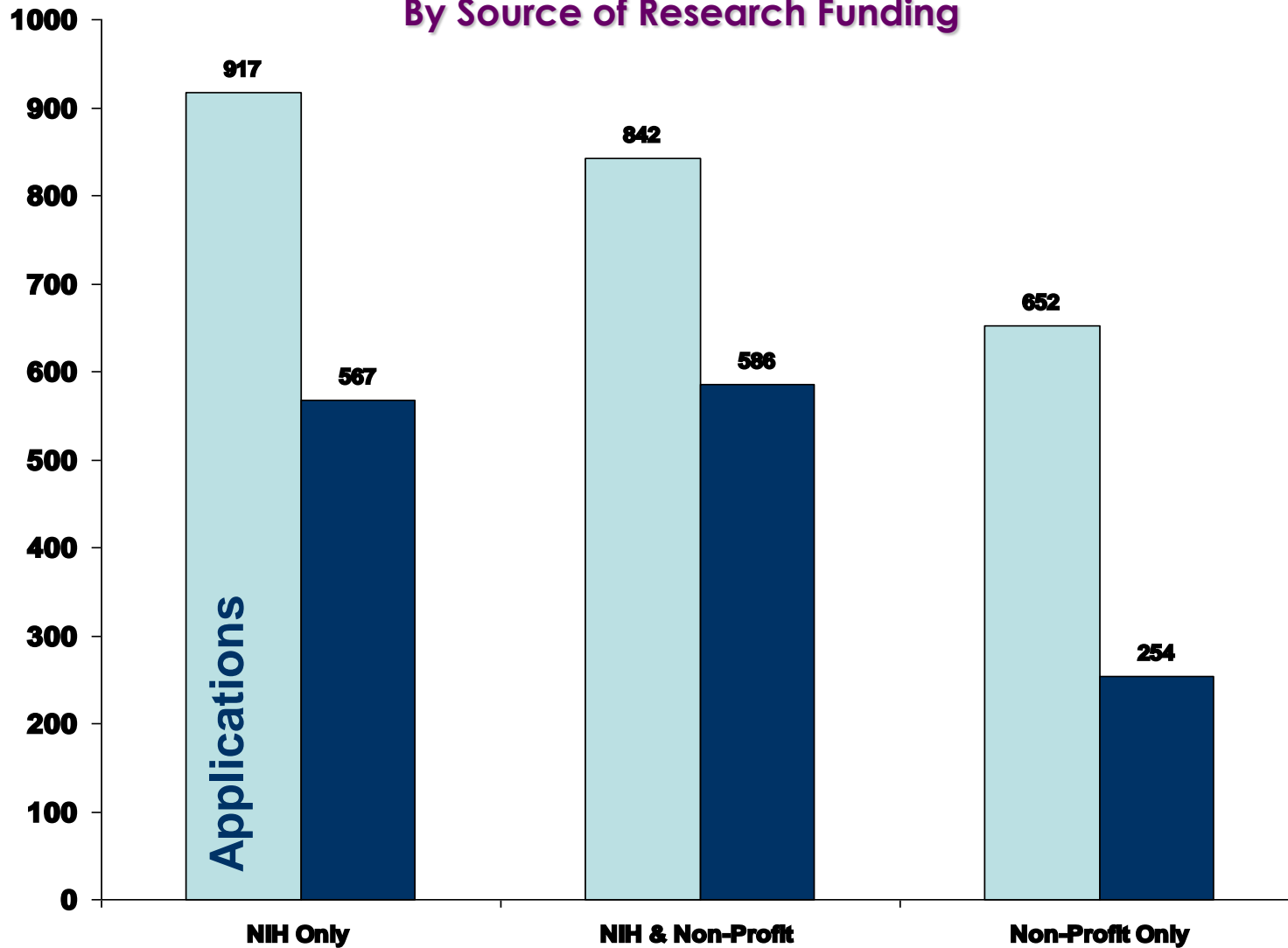
MDs: 788 (56%) of 1,407 awardees held MD degrees (includes awardees with MD/PhD degrees).

PhDs: 523 (37%) of 1,407 awardees held PhD degrees (does not include MD/PhD degrees).

LRP	MD	MD/PhD	PhD	*Other	Total
Clinical Research	403	75	300	56	834
Pediatric Research	167	43	79	24	313
Health Disparities Research	53	3	131	13	200
Clinical Research DB	28	4	8	3	43
Contraception and Infertility Research	12	n/a	5	n/a	17
Total:	663	125	523	96	1,407

*Other includes PharmD, PsyD, DDS, ScD, DVM, DMD, OD, DNSc, DO, DrPh, ND, EdD, JD, DPM, MEd, MPH

**FY 2004: Applications, Awards, and Success Rates
By Source of Research Funding**

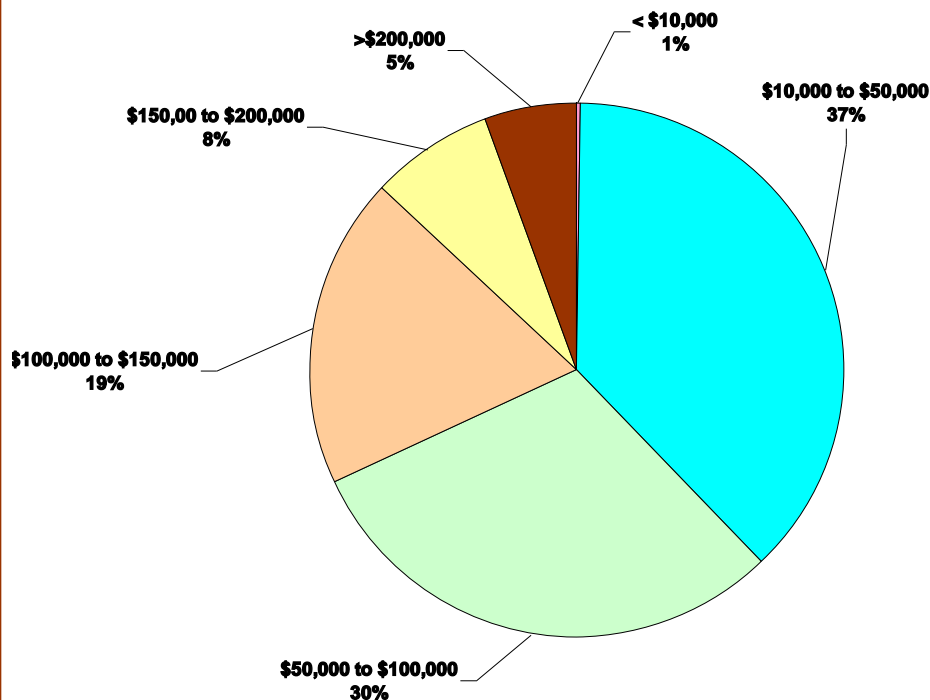


FY 2004: Educational Debt Levels for LRP Awardees

62% of FY 2004 awardees had educational debt levels in excess of \$50,000.

Debt Range	# of Awardees
Less than \$10,000	4
\$10,000 - \$50,000	526
\$50,000 - \$100,000	429
\$100,000 - \$150,000	263
\$150,000 - \$200,000	108
\$200,000 and over	77
Total	1,407

Distribution of Awards by Debt Level



FY 2004: Applications, Awards, and Success Rates by Gender

Women received a slightly higher percentage of awards in FY 04 (53 percent).

LRP	*Male Applicants			*Female Applicants			Gender Distribution	
	Applications	Awards	Success Rate	Applications	Awards	Success Rate	% Male Awardees	% Female Awardees
Clinical Research	707	431	61%	661	403	61%	52%	48%
Pediatric Research	260	151	58%	324	162	50%	48%	52%
Health Disparities Research	104	58	56%	241	142	59%	29%	71%
Clinical Research DB	25	14	56%	38	29	76%	33%	67%
Contraception & Infertility Research	Restricted Data – small-sized datasets cannot be distributed to the general public due to participant confidentiality considerations						29%	71%
Total	1113	659	59%	1291	748	58%	47%	53%

FY 2004: Recipient Demographics

Minority groups received 27% of all FY 2004 awards.

LRP	*Minority Awards		
	Total Awards	Minority Awards	% of Awards to Minorities
Clinical Research	834	170	20%
Pediatric Research	313	59	19%
Health Disparities Research	200	112	56%
Clinical Research DB	43	29	67%
Contraception & Infertility Research	Restricted Data – small-sized datasets cannot be distributed to the general public due to participant confidentiality considerations		47%
Total	1407	378	27%

Breakdown of Minority Groups by Race

Minority Categories	Total Participants	% of All Minorities
Asian/Pacific Islander	163	43%
African-American	119	31%
Hispanic	81	21%
Native American	15	4%
Total Minorities	*378	100%

* Does not include "Other/Unknown"

NIH Loan Repayment Programs

6011 Executive Boulevard, Suite 206

Bethesda, Maryland 20892-7650

Phone: 301.594.3234

Fax: 301.480.0364

Email: lrp@nih.gov

Website: www.lrp.nih.gov