



National Institute
of Nursing Research

HIV Research at NINR: Current State – Future Trends

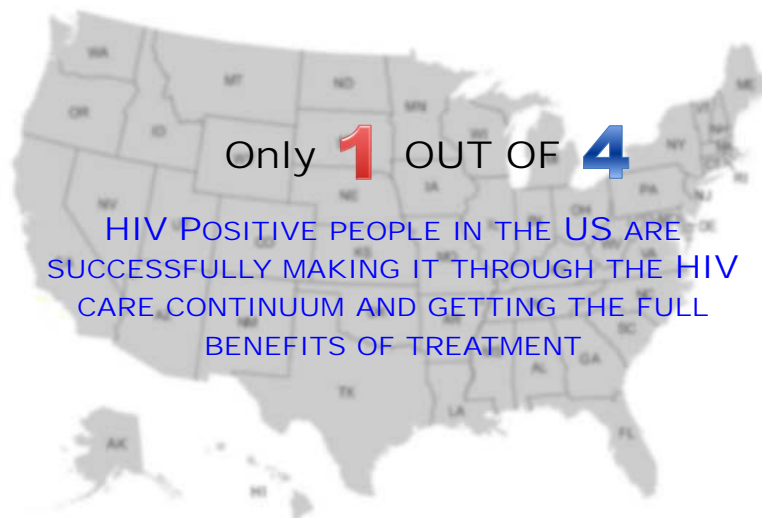


Lyn Hardy, PhD, RN

Program Director, National Institute of Nursing Research



Reality



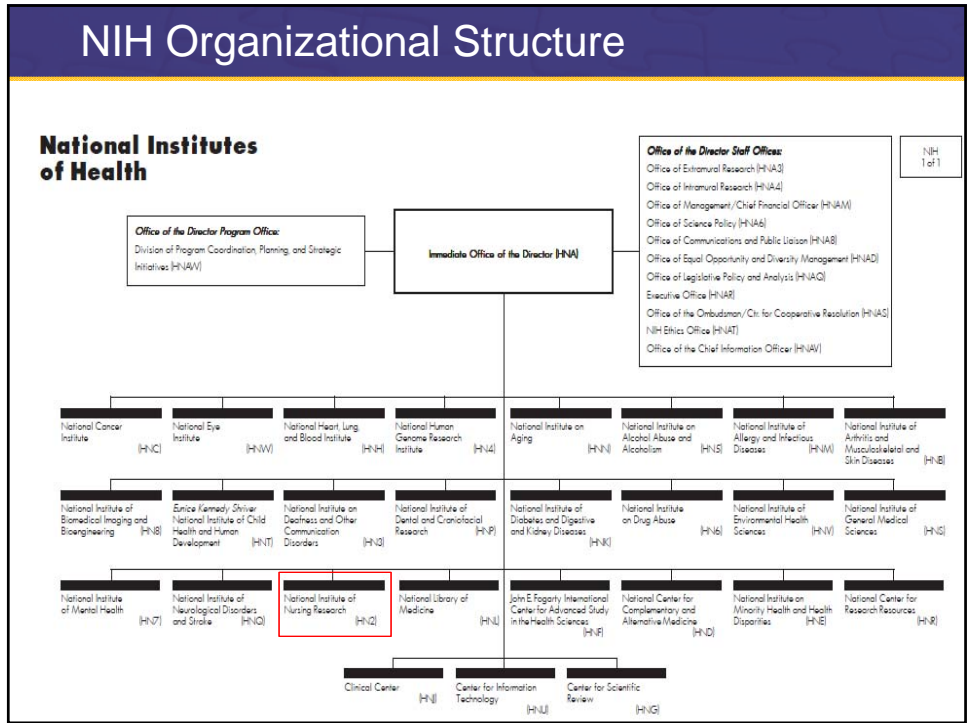
Objectives

- Overview of NINR – where we are today
- Current status of NINR's HIV research
- Research goals of NIH Office of AIDS Research (OAR) and NINR
- Grantsmanship in the AIDS research arena



NINR Overview

NIH Organizational Structure



NINR Director



Dr. Patricia A. Grady
April 3, 1995 - Present

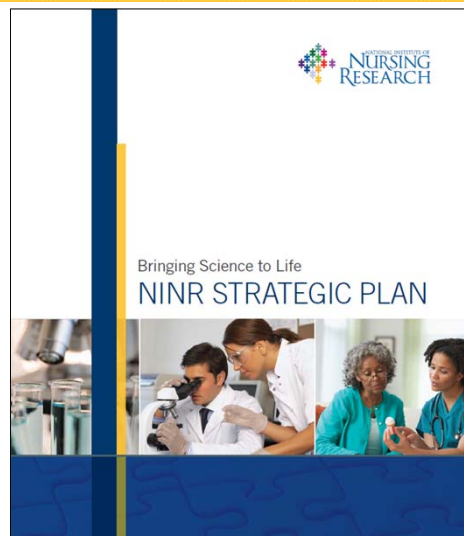


NINR Mission

To promote and improve health of individuals, families, communities, and populations.

NINR supports and conducts clinical and basic research and research training on health and illness across the lifespan.

NINR Strategic Plan



NINR Website

NINR Website

NATIONAL INSTITUTE OF NURSING RESEARCH

NATIONAL INSTITUTES OF HEALTH | DEPARTMENT OF HEALTH AND HUMAN SERVICES

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RESEARCH HIGHLIGHTS

- An Intervention to Reduce Child Disruptive Behavior
- Effects of Delayed Care Cloning in Premature Infants
- Symptoms in Children With Advanced Cancer
- Ethnic-Human Differences in End-of-Life Care

Quick Links

- Division of Extramural Activities
- Division of Intramural Research

Innovative Questions

Pointing the Way Forward for Nursing Science

NINR LAUNCHES INNOVATIVE QUESTIONS INITIATIVE

NINR has launched Innovative Questions (IQ), a new initiative that encourages the scientific community, professional organizations and the public to identify research questions that point the way forward for nursing science. Learn how you can submit your innovative question. [Read More >](#)

WHAT IS NURSING RESEARCH?

LIFE CARE'S PAGE

Thematic Areas

- **Wellness & Health**
 - Immune Function
 - Health Promotion / Disease Prevention
 - Health Disparities / Environmental Influences
 - Women's Health
- **Symptom Science**
 - Biology of Symptoms
 - Genetics
- **Self-Management & Chronic Disease**
 - Self management
 - Chronic disease
 - Caregiving
- **Technology & Training**
- **End-of-Life and Palliative Care Science**



Wellness

The most effective way to overcome the effects of illness is to prevent it from occurring in the first place:

Focus:

- Promoting health and preventing illness across health conditions, settings, the lifespan, and in minority and underserved populations
- Understanding physical, behavioral, and environmental causes of illness,
- Assessing behaviors leading to healthy lifestyle choices,
- Developing evidence-based interventions to promote wellness

Symptom Science

Focus:

- Chronic illnesses and adverse symptoms resulting from them
- New advances in genomics allowing nurse scientists to better understand the symptoms of chronic illness (e.g., pain, fatigue, and disordered sleep)
- Research developing improved, personalized strategies to treat and prevent the adverse symptoms of illness across diverse populations and settings

Self-Management & Chronic Disease

Focus:

- Examining strategies to help individuals with chronic conditions and their caregivers understand and manage their illness and improve their health behaviors
- Supporting research helping individuals from diverse backgrounds and their families live with chronic illness
- Developing effective approaches to self-management that can improve quality of life while reducing the burden for caregivers and the health care system

Technology & Training

- Cross-cutting area
- Focus:
 - Providing a foundation to develop novel, culturally sensitive interventions that deliver personalized care and real-time health information to patients, families, clinicians, and communities

End-of-Life & Palliative Care Science

Focus:

- Assisting individuals, families, and health care professionals in managing symptoms of life limiting conditions and planning for end-of-life decisions
- Providing high-quality, evidence-based palliative care research as a critical component of maintaining quality of life at any stage of illness
- Addressing issues such as: relieving symptoms and suffering; and understanding decision-making by patients, caregivers, and providers

NIH Office of AIDS Research and NINR HIV Priorities

Office of AIDS Research (OAR)

- NIH Revitalization Act of 1993 require OAR to allocate all appropriated AIDS research funds to the Institutes and Centers according to the Trans-NIH Plan for HIV-Related Research
- Coordinates the scientific, budgetary, legislative, and policy elements of the NIH AIDS research program
- Sets scientific priorities
- Enhances collaboration
- Ensures that research dollars are invested in the highest priority areas of scientific opportunity

www.oar.nih.gov

Strategic Plan Areas

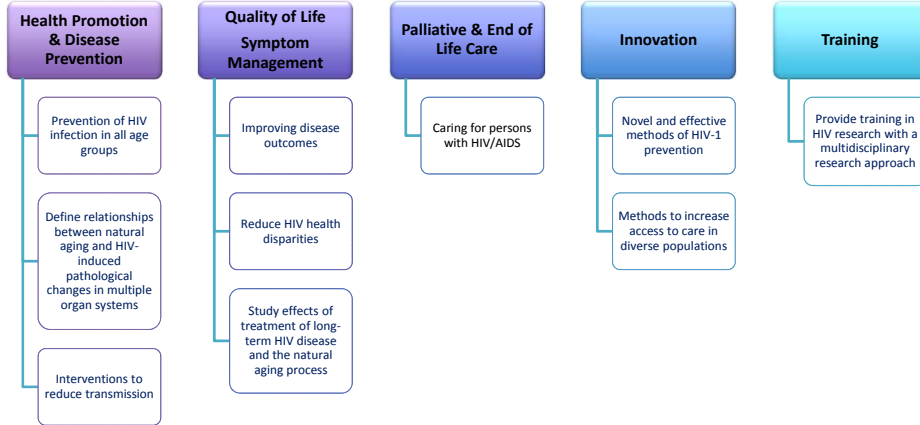
OAR Priority Areas

- Expanding basic discovery research
- Reducing new infections
- Improving disease outcomes
- Reducing HIV-related disparities
- Translational research

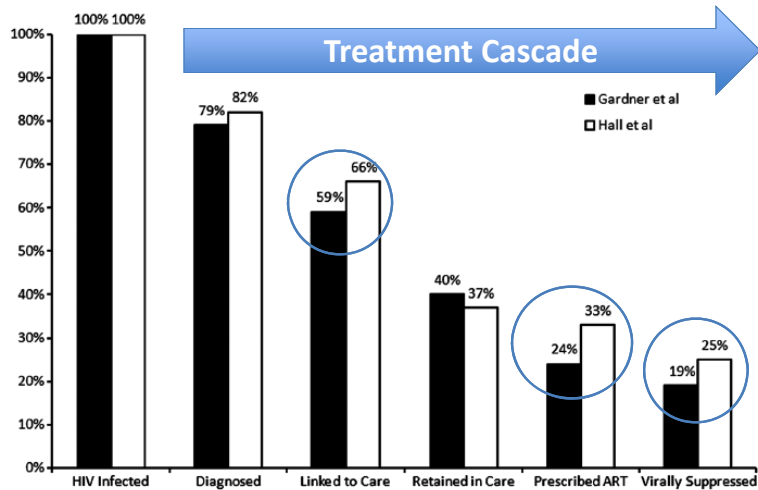
NINR Priority Areas

- Health promotion disease prevention
- Advancing quality of life through symptom and self-management
- Improving disease outcomes
- End-of-life and palliative care
- Innovation

Merging Both Missions



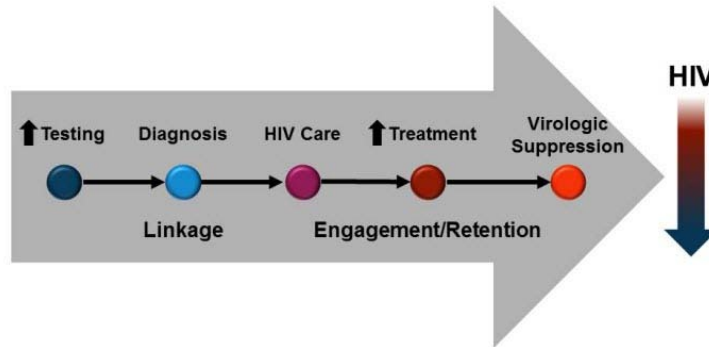
HIV Treatment Cascade



(Gardner, et. al., 2011, *Clin Infect Dis*; CDC-Hall, 2013)

HIV Treatment Cascade

Implementation Cascade for the Continuum of Care



(Adapted from CDC. (2012). HIV in the United States: the stages of care)

Future Research Needs

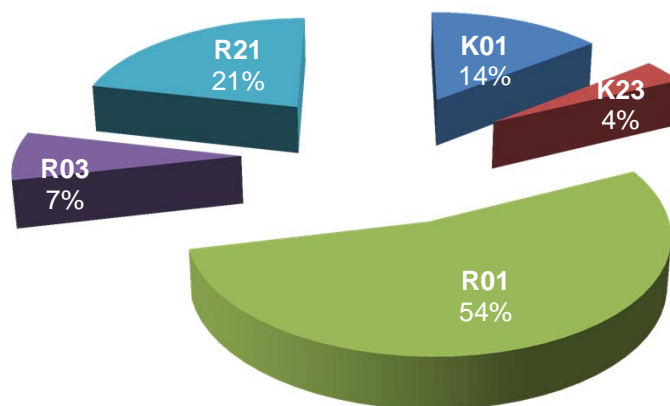
Of those infected with HIV:

- 50% will over the age of 50 by the end of 2014
- 25% of persons are not virally suppressed
- 33% are on ART
- 66% are linked to care

How do you maintain a sense of wellness in this chronically ill population?

Current Status of NINR HIV Research

NINR HIV/AIDS Research Mechanisms



Data accessed from RePORTER 11/7/2013

Areas of NINR HIV/AIDS Research

Current NINR HIV award themes are:

- Prevention - 62%
- PCEOL - 19%
- Chronic Conditions - 12%
- Self-Management - 4%
- Health Disparities/ Health Literacy – 4%

Definitions:

- **Prevention** (for this analysis) - using methodologies to prevent HIV infection
- **Chronic Conditions** – using methods to treat or understand HIV sequelae
- **Self-Management** - using methods aimed at individual management of HIV infection

NINR HIV Research

Neurology[®]

- **Pathways to neurodegeneration : Effects of HIV and aging on resting-state functional connectivity**

Jewell B. Thomas, Matthew R. Brier, Abraham Z. Snyder, et al.
Neurology; Published online before print February 27, 2013;
DOI 10.1212/WNL.0b013e318288792b

- **Motivational Groups Support Adherence to Antiretroviral Therapy and use of Risk Reduction Behaviors in HIV Positive Nigerian Women: A Pilot Study**

Marcia McDonnell Holstad^{1,*}, James E. Essien², Ernest Ekong³, Melinda Higgins¹, Ilya Tepiinskiy¹, and Modupe Falilatun Adewuyi¹


¹Neil Hodgson School of Nursing, Emory University

²Institute of Community Health, University of Houston

³Institute for Health Research and Development, Yaba, Lagos, Nigeria

More NINR HIV Research

● **Malk** OPEN ACCESS Freely available online PLOS ONE



Review in Advance first posted online on September 27, 2012. (Changes may still occur before final publication online and in print.)

Systemic and Topical Drugs for the Prevention of HIV Infection: Antiretroviral Pre-exposure Prophylaxis

Jared Baeten and Connie Celum

Departments of Global Health, Medicine, and Epidemiology, University of Washington, email: jbaeten@uw.edu, ccelum@uw.edu

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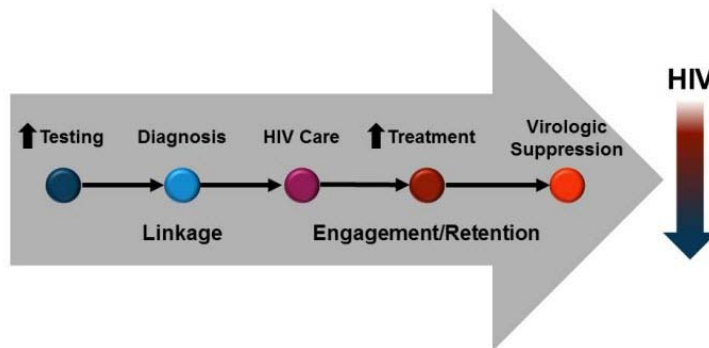
Funding: This publication was supported by National Institutes of Health (NIH) grant numbers R01MH0790700, K24MH087220, R01NR011087, R01DA028224 and UL1RR024131. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the NIH. The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.

Competing Interests: The authors have declared that no competing interests exist.

* E-mail: mallory.johnson@ucsf.edu

HIV Treatment Cascade

Implementation Cascade for the Continuum of Care



(Adapted from CDC. (2012). HIV in the United States: the stages of care)

Overview of NINR Supported Activity Codes

Research Program Grants



New Investigators/Early Stage Investigators

New Investigator (NI)

- A PD/PI who has not obtained a substantial NIH research grant

Early Stage Investigator (ESI)

- A New Investigator within 10 years of completing the terminal research degree or medical residency (or equivalent)
- Applies **only to R01 applications**
- New Investigators/Early Stage Investigators applications will be clustered together for review

Small Business Opportunities

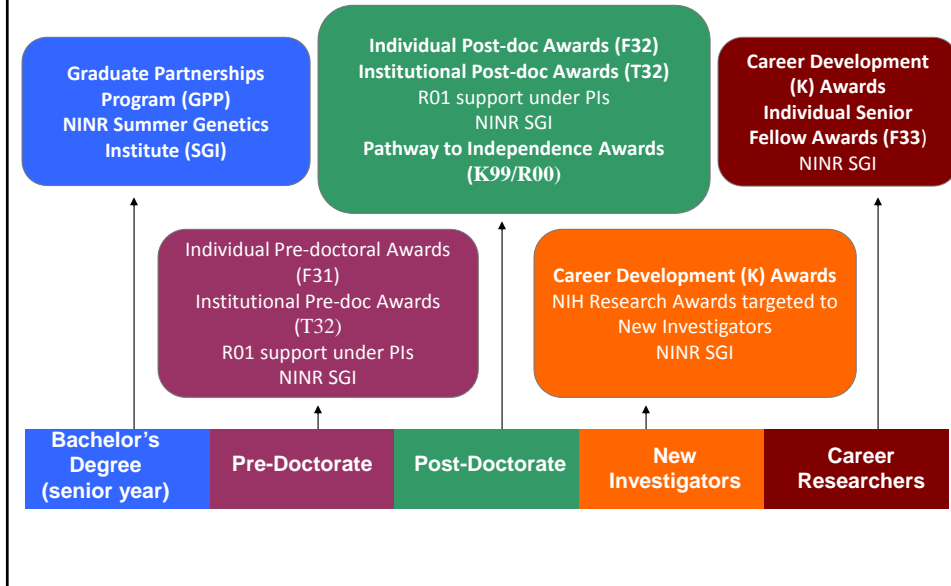
R43
R44

- Innovative Research (SBIR)
- Research & development by small business

R41
R42

- Technology Transfer (STTR)
- Research & development by small business

Training & Education



NINR Graduate Partnership Program

All doctoral coursework completed by August 2014.

Once accepted, the fellow's dissertation research is begun and completed at NIH in collaboration with the dissertation committee at home institution

**National Institute of Nursing Research
GRADUATE PARTNERSHIPS PROGRAM
For Graduate Nursing Students**

CALL FOR APPLICANTS
The National Institute of Nursing Research (NINR) invites nursing students who are currently enrolled in a PhD program to apply to the 2014 NINR Graduate Partnership Program (GPP). A doctoral fellowship program that coordinates training and funding for nursing students who are interested in conducting research in basic or clinical research, the GPP offers the academic environment of a university and the benefits and depth of research at the National Institutes of Health (NIH).

Financial Support
NINR will support GPP scholars for up to 3 years. Funding for:
• Salary
• Tuition assistance
• Health insurance
• Travel costs for travel

Application Information
To be considered eligible for 2014, applicants must have all doctoral coursework completed on date: **June 15, 2014**. Once accepted, the fellow's dissertation research is begun and completed at NIH in collaboration with the dissertation committee at the applicant's institution. For more information about the NINR GPP visit us at: www.nih.gov/partnershipGPP

Application Due: December 9, 2013

Contact Information:
National Institute of Nursing Research
Graduate Partnership Program
303 10th Street
Bethesda, MD 20895
NINR@nih.gov

Logos: National Institutes of Health, NIH National Institute of Nursing Research

Timeline: New R01 Applications



**Receipt
Date**

February 5

June 5

October 5



**Scientific
Review**

June

October

February



**Council
Review**

October

January

May



**Award
Date**

December

April

July

Timeline: HIV/AIDS Applications



**Receipt
Date**

May 7

June 5

October 5

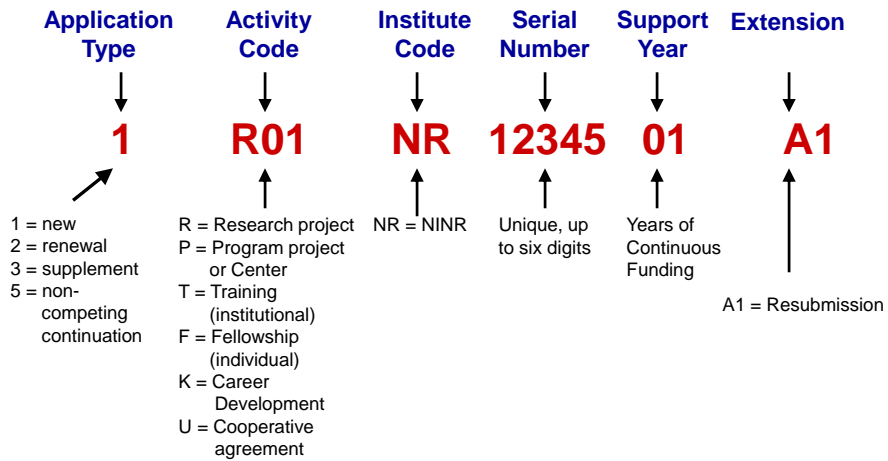
Timeline: *New K Series, R03, R21, R15 Applications*



Application Type	Receipt Date	Scientific Review	Council Review	Award Date
K Series	February, ^{12th} June, October,	June/July Oct/Nov Feb/March	Aug/Oct January May	December April July
R21, R15 (25 th)	February, ^{16th} June, October	June/July Oct/Nov Feb/March	Aug/Oct January May	December April July
F Series	April, ^{8th} August, December	June/July Oct/Nov Feb/March	Aug/Oct January May	Sept/Dec April July

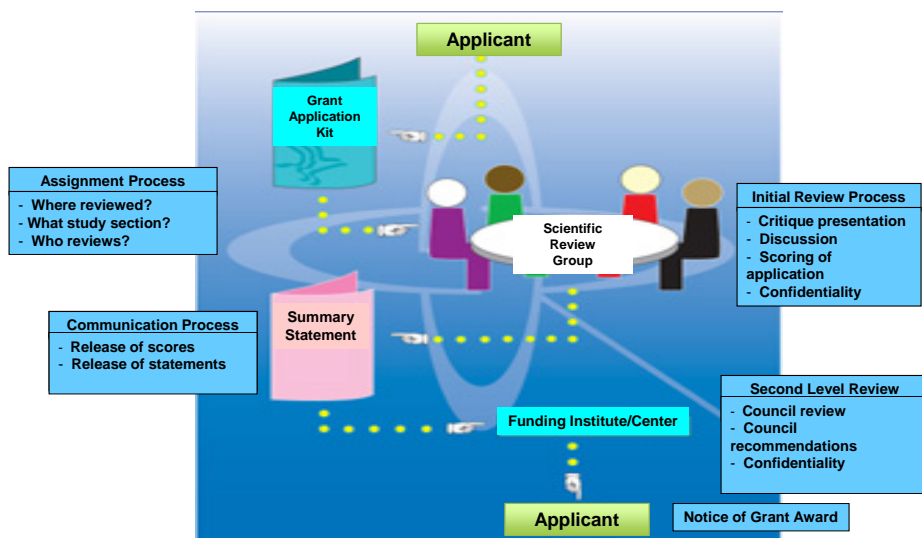
Your NIH Application: What Does it Mean?

Decoding Your NIH Grant Number



Overview

NIH Scientific Review of Grant Applications



Where are NIH Applications Reviewed?

WHERE

MECHANISM

Center for Scientific Review (CSR)

- Research Projects (R01, R21, R03)
- AREA (R15)
- Small Business Innovation Research (R41, R42, R43, R44)

NINR (Office of Review)

- Pre- and Post-doctoral Fellowships (F31, F32, F33)
- Career Development Awards (K's)
- Institutional Training Grants (T 32)
- Special Initiatives (RFAs, PARs)

Impact Scoring Criteria

- Significance
- Investigators
- Innovation
- Approach
- Environment



Other Criteria: Factored into Overall Impact

- Protection of Human Subjects
- Vertebrate Animal Welfare
- Inclusion of Women, Minorities and Children
- Biohazards

Scoring of Criteria and Overall Impact

- Applications scored on **each review core criterion** using a scale of 1-9.
- The **overall impact of the** application is determined by using the same scale of 1-9
- The impact score **is not** the average of the criterion scores

NIH Scoring Scale: Additional Guidance

Impact	Score	Descriptor	Strengths/Weaknesses
High Impact	1	Exceptional	Exceptionally strong/no weaknesses
	2	Outstanding	Extremely strong/negligible weaknesses
	3	Excellent	Very strong/some minor weaknesses
Moderate Impact	4	Very Good	Strong/numerous minor weaknesses
	5	Good	Strong/ at least 1 moderate weakness
	6	Satisfactory	Some strengths/some moderate weaknesses
Low Impact	7	Fair	Some strengths/ at least 1 major weaknesses
	8	Marginal	Few strengths/few major weaknesses
	9	Poor	Very few strengths/many major weaknesses

Additional Scoring Guidance

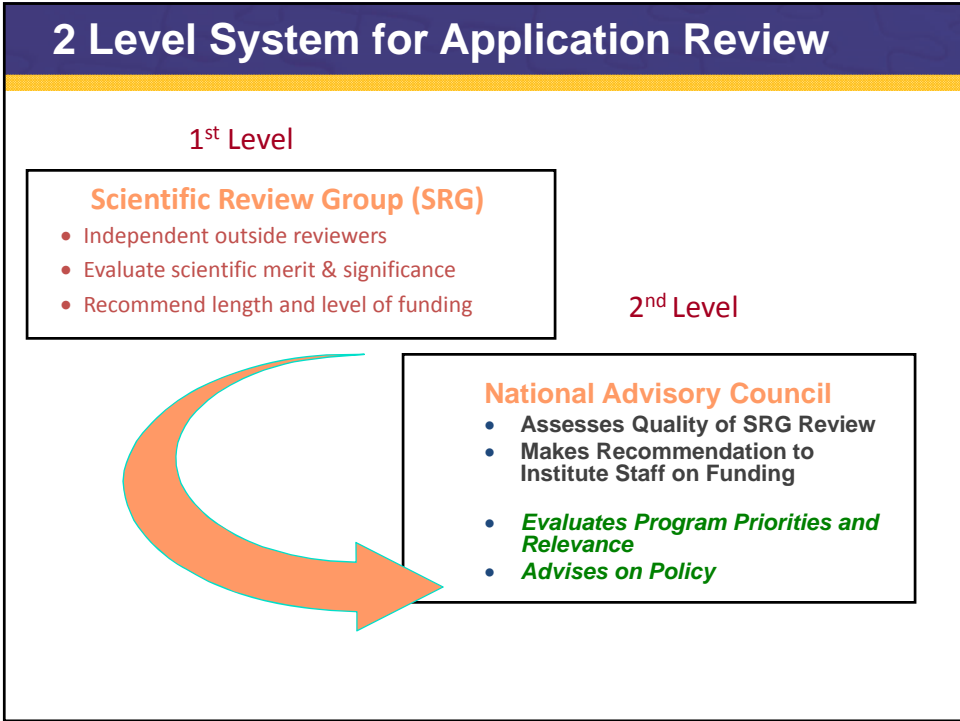
- Minor Weakness: *Does not lessen* impact
- Moderate Weakness: *Lessens* impact
- Major Weakness: *Severely limits* impact

Study Section Meeting



“There is no amount of Grantsmanship that will turn a bad idea into a good one... but there are many ways to disguise a good idea”

Dr. William F. Raub
Deputy and Acting Director NIH (1986-1991)



Things to Consider

<ul style="list-style-type: none"> • Significance • Investigators • Innovation • Approach • Environment 	<p>What will it mean to the science?</p> <p>Who's on your team?</p> <p>What makes this new?</p> <p>Your methods</p> <p>Your University</p>
<p>Specific Aims Page</p>	<p>Cover Letter</p>

NINR Program Directors

Contact NINR Program Directors for Assistance

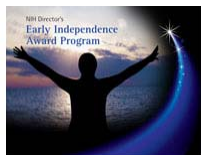
- Common Topics:
 - Ideas for research proposals
 - Questions regarding FOA's
 - Guidance with application preparation
 - Questions regarding population tracking
 - Any issues regarding your funded application
 - General concerns/comments

Funding Opportunities

NINR Funding Opportunities

- **Symptom Management in HIV-Infected Individuals with Comorbid Conditions (R01) Announcement Number: [PA-13-210/211](#)**
- **Multidisciplinary Studies of HIV/AIDS and Aging (R01) Announcement Number: [PAR-12-175](#)**
- **HIV/AIDS Testing and Follow-up Among the Underserved in the United States (R21) Announcement Number: [PA-11-119](#)**

NIH Common Fund Opportunities



- Provides a mechanism for exceptional, early career scientist to forgo traditional post-doctoral training
- Applicants must be within a year of their terminal research degree/clinical residency
- Up to \$300K/yr. for 5 years

<http://commonfund.nih.gov/earlyindependence/>

Summary

- NINR is committed to funding novel, cutting edge, patient oriented HIV/AIDS research
- NINR's mission is consistent with that of OAR as we strive for health promotion, disease prevention, and quality of life in this population
- Your thoughts and concerns, as HIV nurse scientists and care providers, make a difference

Thoughts to Leave You With

"We live in a completely interdependent world, which simply means we cannot escape each other. How we respond to AIDS depends, in part, on whether we understand this interdependence. It's not someone else's problem. This is everybody's problem."

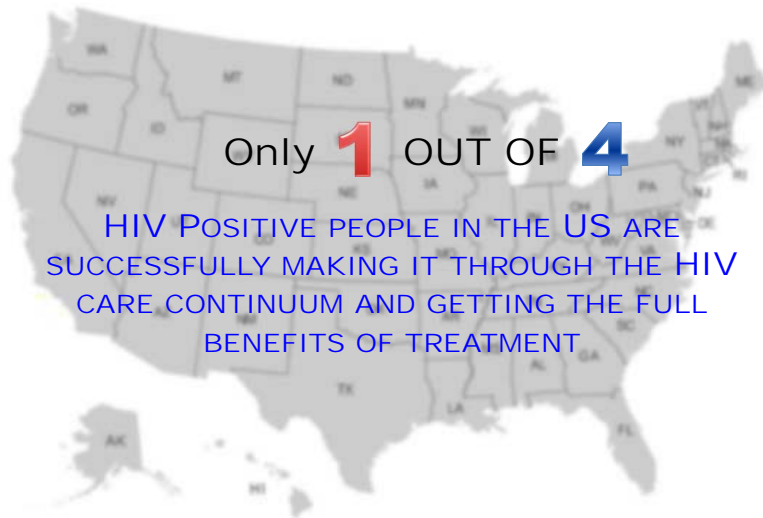
Bill Clinton

"It's not the years in your life that count, it's the life in your years."

Abraham Lincoln

We all make a difference in this fight!

The Ultimate Reality



Thank you!
Questions?

