

Grant Funding for Stewardship Research

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Obtaining grant funding

- **now some agencies have direct language around funding AS research**
- review agency web sites
- be responsive to agency priorities (at least) or FOA/RFA (even better)
- review successful applications
- talk to project officer
- collaborate with experienced investigators
- be persistent

Major Federal funding sources

- **NIH (ARLG)**
- **AHRQ**
- **PCORI**
- **CDC**

Antibiotic Resistance Leadership Group (ARLG)

- main NIH mechanism for antimicrobial stewardship
- variable funding limits
- 2-page proposal (more if accepted)
- Fellowships
 - up to 2-years, fully funded, designed for ID fellows interested in pursuing research training in patient-oriented AR
 - salary, mentoring, formal training in epidemiology
- Early Stage Investigator Seed Grants
 - each year, up to \$50,000 in direct costs will be provided to up to 5 ESIs for research in areas related to AR
 - to generate preliminary data leading to additional funding
 - early in their research career (5 years or less)

www.arlg.org

ARLG

- ARLG aims to advance research by building transformational trials that will change clinical practice and reduce the impact of antimicrobial resistance through the following strategies:

ARLG

- Early clinical evaluation of new antibacterials
- **Comparative effectiveness** or efficacy trials
- Strategy trials to optimize currently licensed antibacterials (**dose, duration, need for drug**) to reduce the risk of resistance
- **Clinical algorithm** testing strategies
- Treatment-based prevention measures
- **Diagnostics testing** in the context of treatment trials, epidemiologic elements, or behavioral modification
- Effective infection control programs which include surveillance for resistant organisms, outbreak investigation, and **antibiotic stewardship** to prevent the development and spread of resistant organisms
- **Novel facilities level activities** to prevent the development of resistance

www.arlg.org

ARLG: Research Priorities

1. Infections caused by Gram-negative bacteria
2. Infections caused by Gram-positive bacteria
- 3. Infection Control/Stewardship**
4. Diagnostics

Agency for Healthcare Research and Quality (AHRQ)

- specifically mentions stewardship in priorities
- Comparative effectiveness, “real world” studies
- Dissemination and implementation
- R01, R03, K
- R18 (dissemination and implementation)
- R01 max \$500K, including indirects

AHRQ

- **Mission:** produce evidence to make health care safer, higher quality, more accessible, equitable, and affordable, and make sure that evidence is understood and used

AHRQ: CARB R01

- FOA solicits applications for grant funding to conduct Large Research Projects (R01) focused on Combating Antibiotic-Resistant Bacteria (CARB) in the following ways: by **promoting appropriate antibiotic use**, reducing the transmission of resistant bacteria, and preventing healthcare-associated infections (HAIs) in the first place.
- The CARB NAP is available at:
https://www.whitehouse.gov/sites/default/files/docs/national_action_plan_for_combating_antibiotic-resistant_bacteria.pdf.

AHRQ: CARB R01

Research Objectives

- AHRQ intends to expand the number of grant-supported projects that address AR issues
- Additional research in **long-term care and ambulatory settings** is especially needed

AHRQ: CARB R01

Promoting appropriate antibiotic use

- Improving the appropriateness of antibiotic selection and use in all healthcare settings, including but not limited to **identifying and modifying factors influencing prescriber decisions** about the use and choice of antibiotics
- The role of the **patient's perceptions and preferences and patient engagement** in influencing antibiotic use
- Developing **improved methods for conducting antibiotic stewardship**, particularly in ambulatory and long-term care settings, including multidisciplinary approaches to antibiotic stewardship
- Developing **EHR-based approaches to AS** in and across various settings
- The **role of rapid diagnostics in improving antibiotic use**, including how to integrate into clinicians' decision making

The Patient-Centered Outcomes Research Institute (**PCORI**)

- independent nonprofit, nongovernmental organization, authorized by Congress in 2010
- CER (\$2M)
- large pragmatic clinical trials (\$10M)
- priority topics influenced by patients
- needs patient/stakeholder engagement
- Lots of RFAs

PCORI: National Priorities

- Assessment of Prevention, Diagnosis, and Treatment Options (CER)
- Improving Healthcare Systems
- Communication and Dissemination Research
- Addressing Disparities
- Accelerating Patient-Centered Outcomes Research and Methodological Research

What is patient centered research?

VIEWPOINT

Stakeholder-Driven Comparative Effectiveness Research An Update From PCORI

- PCORI directs applicants to engage patients and other stakeholders or their organizations throughout study planning, conduct, analysis, and dissemination

PCORI Review Criteria

- impact of the condition on the health of individuals and populations
- potential for the study to improve health care and outcomes
- technical merit
- **patient-centeredness**
- **patient and stakeholder engagement**

CDC

- Large amount of \$ for HAI and AS research
- Epicenters
- Shepherd
- BAA
- ELC - State Based Funding

Professional Societies

- SHEA
- SIDP
- IDSA Education and Research Foundation Awards
- American College of Clinical Pharmacy (ACCP)
 - Fronteirs Fund Research Awards
- MAD-ID Antimicrobial Stewardship Research Grant

SHEA Epi Project



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SHEA Epi Project Competition

SHEA is pleased to announce the availability of funds to support research in the field of healthcare epidemiology in 2018. The SHEA Epi Project Competition is seeking bright and dedicated young investigators in the field of healthcare epidemiology research. Funding for project grants is provided by the SHEA Research and Education Foundation. The grant competition is organized by the SHEA Research Committee.

Key Dates:

- **November 1, 2017 – December 13, 2017:** Upon submission of a letter of intent, SHEA leaders are available to prospective submitters for feedback on proposal and research methods development. This step is an option extended to competitors that is highly encouraged
- **December 18, 2017 – January 18, 2018:** Formal proposals for the competition are accepted during this time period. All proposals must be received no later than 11:59 pm ET on January 18. **Submitters must be registered for the SHEA Spring 2018 Conference by January 18 to be eligible for participation in the competition.**

Research Networks

- May work with funded and unfunded proposals- collaborative groups of facilities interested in participating in multi-center studies

Process- Submit proposal for central approval

- Examples:
- SHEA Research Network
- American College of Clinical Pharmacy Practice Research Network
- Critical Care Pharmacotherapy Trials Network
- MAD-ID Research Network

Foundations

- Cardinal Health Foundation E3 Grant Program
 - Awards up to \$35,000 per project
- Bill and Melinda Gates Grand Challenges Program
 - Grandchallenges.org
- Roberts Wood Johnson Foundation
 - www.rwjf.org

Pharmaceutical Industry and Partners

- Investigator-Initiated Research Mechanisms
- Merck
 - Engagezone.msd.com
- Pfizer
 - Independent Grants for Learning and Change
- Unique Partnerships
 - CDC Foundation
 - Pfizer/The Joint Commission 2012