Extramural Research Program Update

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Office of Science

BOARD OF SCIENTIFIC COUNSELORS
Centers for Disease Control and Prevention
National Center for Injury Prevention and Control

December 4, 2019
Agenda

- ERPO Brief Overview
- New FY 2019 Extramural Awards
- Program Highlights
- Portfolio Overview
- FY 2020 Funding Opportunities
What is Extramural Research Program Operations?

The science and administrative focal point for the development, peer review, and post award management of extramural research awards for NCIPC.

NCIPC also conducts these services for the National Center for Environmental Health and the Agency for Toxic Substances and Disease Registry.
What We Do: Oversee and Manage Research through The Grant & Cooperative Agreement Lifecycle

START ➔ Develop Research Concept ➔ Develop and Publish NOFO

Pre-Award

Eligibility and Responsiveness Reviews
Primary Peer Review
Secondary Review

Translate and Disseminate Outcomes
Track and Evaluate Outcomes
Execute and Administer New Awards
NCIPC Director’s Review / Funding Decision

Post-Award

Research Agenda Input

https://www.cdc.gov/injury/erpo/about.html
Why Do We Have an ERPO

- Established Across the CDC to:
  - Standardize processes and procedures for extramural research
  - Ensure CDC funds the highest quality research possible to address public health program mission and goals
  - Support the integrity, transparency, and scientific credibility of CDC’s extramural processes and funding decisions

- ERPO Stakeholders and Partners:
  - Center Leadership
  - Center Divisions
  - CDC/OFR/Office of Grant Services
  - CDC/SBI/Administrative Office for Advisory Committees
  - Recipients
  - CDC OD and Other CIOs
NCIPC Research Priorities Addressed by New FY 2019 Awards

- Child Maltreatment/Child Abuse and Neglect
- Adverse Childhood Experiences
- Youth Violence
- Sexual Violence
- Intimate Partner Violence
- Self-Directed Violence and Suicide
- Cross-Cutting Strategies for Multiple forms of Violence
- Opioid Use Disorder and Overdose
- Motor Vehicle Injury
- Traumatic Brain Injury and Youth Sports Concussion
- Older Adult Falls
# FY2019 New Extramural Research Awards

<table>
<thead>
<tr>
<th>FY 2019 NOFO</th>
<th>Number of Applications Awarded</th>
<th>1st year Funding</th>
<th>Total Estimated Award** (Performance YRS.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE19-001 - Injury Control Research Centers (R49)</td>
<td>9</td>
<td>$7,550,942</td>
<td>$37,754,710 (5 YRS)</td>
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<tr>
<td>CE19-002 - Research Grants to Identify Effective Strategies for Opioid Overdose Prevention</td>
<td>8</td>
<td>$5,773,788</td>
<td>$17,321,364 (3 YRS)</td>
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<tr>
<td>CE19-003 - Evaluation of Return to School Programs for Traumatic Brain Injury</td>
<td>2</td>
<td>$1,087,474</td>
<td>$4,349,896 (4 YRS)</td>
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<tr>
<td>CE19-004 - Etiologic and Effectiveness Research to Address Polysubstance Impaired Driving</td>
<td>1</td>
<td>$332,797</td>
<td>$998,391 (3 YRS)</td>
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<tr>
<td>CE19-005 - Research Grants for Preventing Violence and Violence Related Injury (R01)</td>
<td>4</td>
<td>$1,395,281</td>
<td>$4,185,843 (3 YRS)</td>
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<tr>
<td>CE19-006 - Grants to Support New Investigators in Addressing Cross-Cutting Violence Prevention and Opioid Overdose Prevention (only violence prevention research awarded)</td>
<td>2</td>
<td>$244,296</td>
<td>$488,592 (2 YRS)</td>
</tr>
<tr>
<td>PA18-573/PA-18-574 - Omnibus Solicitations of the Centers for Disease Control and Prevention for Small Business Innovation Research [SBIR] Grants</td>
<td>2 Phase Is</td>
<td>$1,977,813</td>
<td>$450,000 (1 YR) $2,000,000 (2 YRS)</td>
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<tr>
<td></td>
<td>Tools for preventing impaired driving and sexual exploitation</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>2 Phase IIs</td>
<td>$18,362,391</td>
<td>Total New Awards Estimated Funding** $67,548,796</td>
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<td></td>
<td>Tools for preventing opioid overdose and managing TBI</td>
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** Pending satisfactory progress and the availability of funds in future federal appropriations
Extramural Research Program Highlight

Peer Reviewer Survey

- OMB Approved Survey of Reviewers Since 2018
- Quantitative and Qualitative Data
- Notable FY19 Survey Results
  - 83% Response Rate among 111 serving reviewers
  - No notable difference in responses across 7 peer review panels
  - 97% agreed panel reviews were managed in a fair and unbiased way, appreciated the CDC leadership, and quality of the discussions for scientific merit of applications.
    Individual qualitative feedback: “Panel members were extremely well-prepared and professional. The Scientific Review Official and Chair were professional and knowledgeable and ensured a fair, effective review.”
  - 72% indicated they would be very likely to serve on an NCIPC panel again.
Extramural Research Program Highlight

NCIPC FY19 Funded ICRCs

- Columbia University
- Emory University
- Johns Hopkins University
- The Research Institute at Nationwide Children's Hospital
- University of Iowa
- University of Michigan
- University of North Carolina
- University of Pennsylvania
- University of Washington, Harborview Medical Center
Extramural Research Program Highlight – FY19 Funded ICRCs

NCIPC Research Priority: Preventing Adverse Childhood Experiences (ACEs)

University of Iowa
- ACEs and adult cardiovascular risk

Research Institute Nationwide
- ACEs and opioid overdoses

University of Pennsylvania
- Role of ACEs and neighborhood exposures to health outcomes in African-American men

Johns Hopkins University
- Child sexual abuse prevention in youth organizations

Emory University (Two Projects)
- ACEs among Hispanic pediatric caregivers to improve child health outcomes and decrease adverse events
- ACEs & suicidal behavior in African Americans Assessment and Prevention
Extramural Research Program Highlight – FY19 Funded ICRCs
NCIPC Research Priority: Older Adult Fall Prevention

University of Washington
- Toolkit for fall prevention in long term care facilities

University of Michigan
- Overdose and fall risk in benzodiazepine users

University of Pennsylvania
- Innovative tech for fall prevention in older adults with mild cognitive impairment
Extramural Research Program Highlight – FY19 Funded ICRCs
NCIPC Research Priority: Motor Vehicle Injury Prevention

**University of Iowa**
- State driver licensing policy impact on older driver motor vehicle crash rates

**Columbia University**
- Impact of ridesharing on motor vehicle crashes, alcohol morbidity, and assault

**University of Pennsylvania**
- Space/time characteristics of teen cell phone use while driving

**Research Institute Nationwide (Two projects)**
- Smartphone tech to improve teen safe driving
- Hybrid effectiveness implementation trial to improve safe driving among teens with traffic violations

**Johns Hopkins University (Two projects)**
- Tech to reduce teen driving crashes
- Impact of state opioid prescribing laws on fatal crashes
Extramural Research Program Highlight – FY19 Funded ICRCs
NCIPC Research Priority: Opioid Use Disorder and Overdose Prevention

University of Iowa
- Opioid medication care plan to reduce older adult falls in rural areas

University of Michigan (Two projects)
- Opioid overdose risk due in context of changing prescribing patterns and overdose
- State prescription opioid limitation laws and suicide outcomes

University of Pennsylvania
- "Warm Handoff" approach to treating opioid use disorder in the ED

Johns Hopkins University (Two projects)
- IHS medication storage and disposal for older adults in Tribal Communities
- State opioid driving laws impact on fatal crashes

Emory University
- Small area estimated for opioid abuse prevention and response
Extramural Research Program Highlight – FY19 Funded ICRCs

NCIPC Research Priority: Opioid Use Disorder and Overdose Prevention

**Research Institute Nationwide**
- Opioid overdoses and child abuse and neglect

**Columbia University**
- Diverging trends in depression, suicide, and alcohol/opioid use in teens

**University of Washington**
- Collaborative opioid taper approach to opioid use disorder prevention after trauma

**University Of North Carolina (Two projects)**
- Medicaid expansion and deaths due to opioid overdose, suicide, and homicides
- An ED patient-centered intervention to prevent long-term opioid use
Extramural Research Program Highlight – FY19 Funded ICRCs

NCIPC Research Priority: Sexual Violence Prevention

University of Iowa
- TDV prevention program in rural communities

Johns Hopkins University
- Child sexual abuse prevention strategies in youth serving organizations

University Of North Carolina (Two projects)
- Patterns of IPV from adolescence to adulthood among sexual minorities and heterosexuals
- Adapting “Moms and Teens for Safe Dates” for web based delivery
Extramural Research Program Highlight – FY19 Funded ICRCs
NCIPC Research Priority: Self-Directed Violence and Suicide Prevention

University of Washington
- Evaluation of suicide prevention training for healthcare professionals

University of Michigan (Two projects)
- Translation of military/veteran crisis line for national guard service members
- Association between State prescription opioid limitation laws and suicides

Research Institute Nationwide
- Targeting adolescent insomnia to reduce suicidal behavior risks

Columbia University
- Diverging trends in depression/suicide and alcohol/opioid use in teens

Emory University
- ACEs and suicidal behavior in African Americans – Assessment and Prevention
Extramural Research Program Highlight – FY19 Funded ICRCs
NCIPC Research Priority: Traumatic Brain Injury Prevention

University of Washington
- Return to Learn Implementation Bundle for Schools (RISE) after youth concussion
Extramural Research Program Highlight – FY19 Funded ICRCs
NCIPC Research Priority: Violence Data Collection Models

Emory University
- Organizational readiness of the Georgia Trauma System to implement the Cardiff Model
Extramural Research Program Highlight

CDC Strategic Framework for Opioid Use Disorder and Overdose Prevention: Areas Addressed by Research Awards

![Bar chart showing research areas and awards for FY18 and FY19.](chart.png)
Extramural Research Program Highlight

NOFO Topic Areas Addressed by Opioid Research Awards
NCIPC Extramural Research Funding History FY2009-2019

Extramural Research Award Funding

Federal Fiscal Year

Source: NCIPC Extramural Tracking
NCIPC Sexual and Intimate Partner Violence Prevention
Extramural Research Funding  FY2009-2018

Extramural Research Total Funding $

Source: NCIPC Extramural Tracking
NCIPC Youth Violence Prevention
Extramural Research Funding FY2009-2018

Extramural Research Total Funding $ by Federal Fiscal Year

Source: NCIPC Extramural Tracking
Additional NCIPC Injury Topic Areas
Extramural Research Funding FY2009-2018

Cross Cutting Violence Prevention
Transportation/Motor Vehicle
Self-Directed Violence/Suicide
Falls Amongst Older Adults
Traumatic Brain Injury

Source: NCIPC Extramural Tracking
Future Extramural Research Program Plans

FY2020 Notices of Funding Opportunities (New NOFOs) Forecasted on www.grants.gov:

- CE20-001 Evaluating Practice-based programs, policies, and practices from CDC’s Rape Prevention and Education (RPE) Program: Expanding the Evidence to Prevent Sexual Violence (U01)

- CE20-002 Grants to support new investigators in conducting research related to Preventing Interpersonal Violence Impacting Children and Youth (K01)

- CE20-003 Grants for Preventing Violence and Violence-Related Injury (R01)
NCIPC Office of Science Extramural Research Program Operations

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Questions and Discussion