

Tobacco Cessation Interventions Among People Living with HIV/AIDS

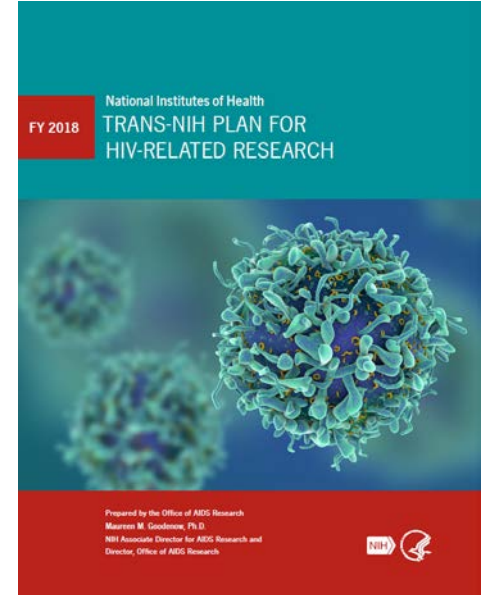
Concept Proposal to the NCI Board of Scientific Advisors

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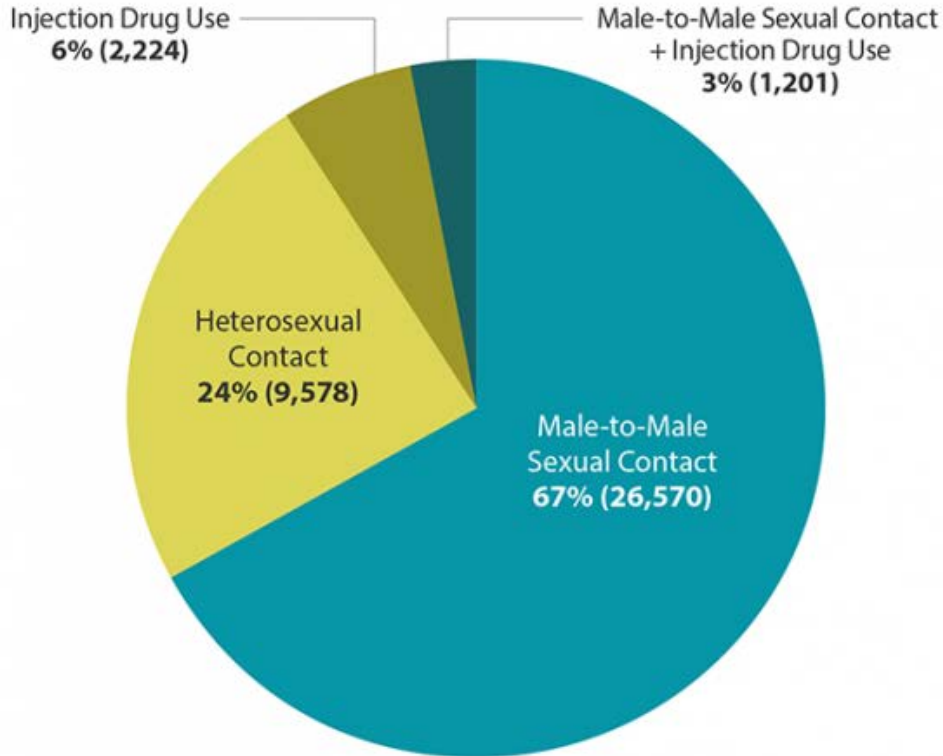
Goals of Funding Announcement

- Support studies to improve tobacco cessation treatment among people living with HIV (PLWH) in the U.S.
- Emphasis on studies that adapt existing evidence-based cessation interventions for application to this population
- NIH approval, \$2.5M set aside
 - NIDA, additional \$250K



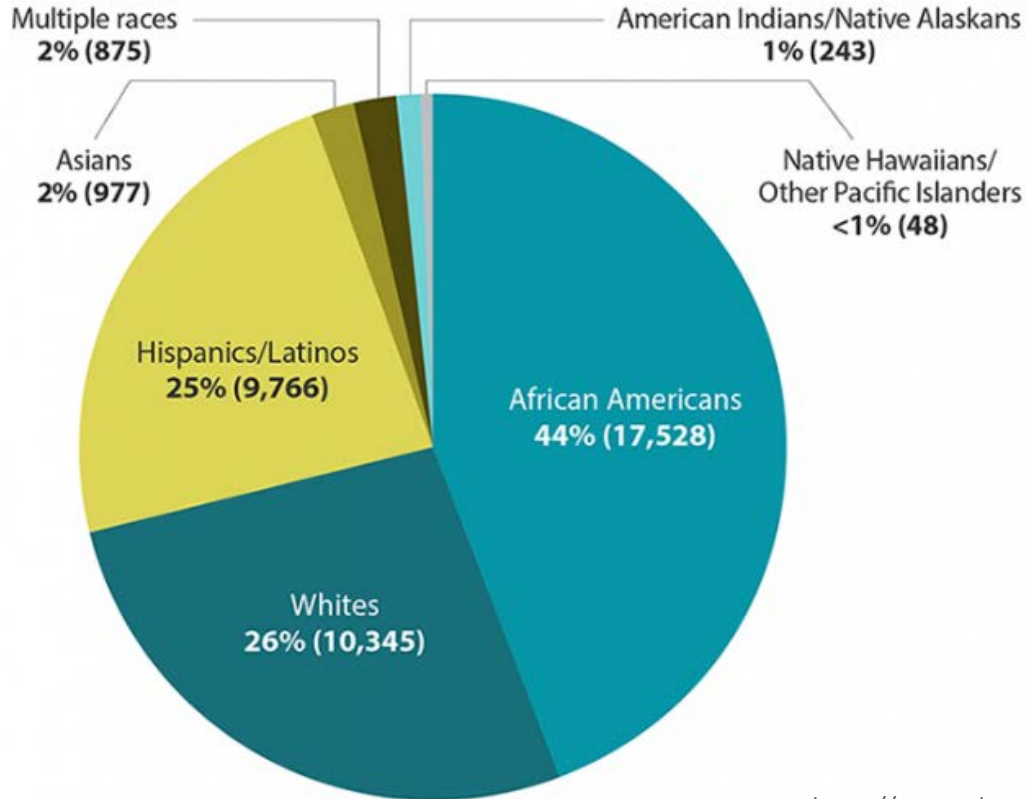
PLWH: A Diverse Population

New HIV Diagnoses by Transmission Category (2016, n=39,782)

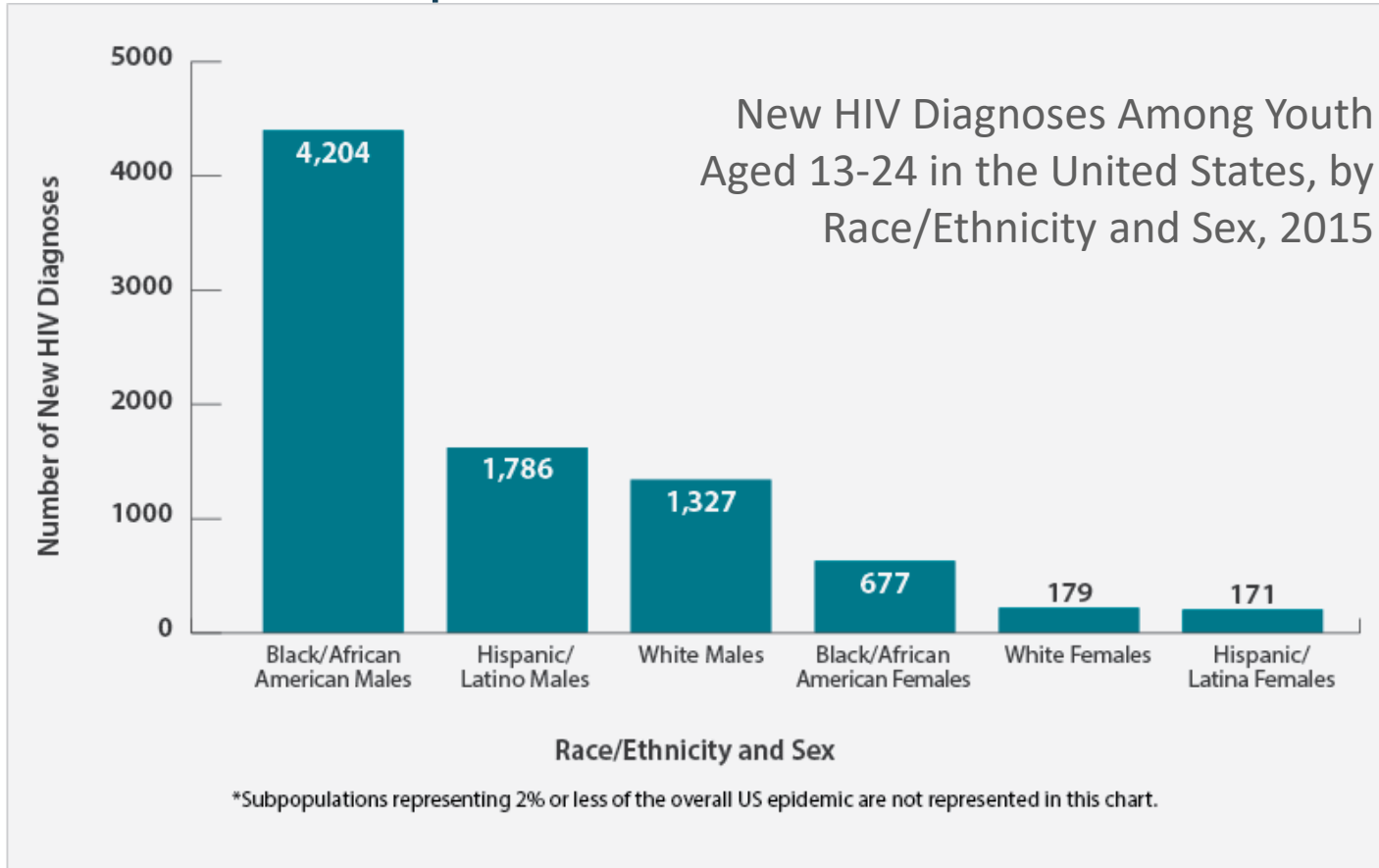


PLWH: A Diverse Population

New HIV Diagnoses by Race/Ethnicity (2016, n=39,782)



PLWH: A Diverse Population



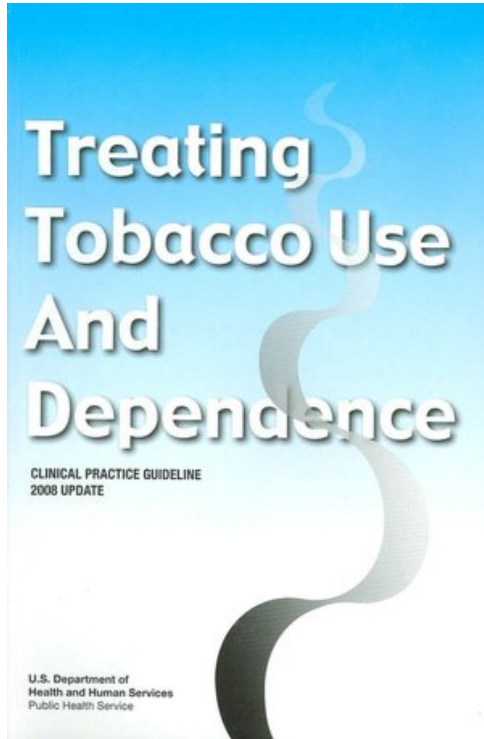
Background: Cancer among PLWH

- Antiretroviral therapy (ART) has led to a decline in AIDS-related mortality and increased life expectancy
- Non-AIDS-defining cancers are the leading non-AIDS cause of death
- Lung cancer is the leading cause of cancer death
 - Diagnosed a decade or more earlier
 - **94% of diagnoses** could be prevented by eliminating cigarette smoking

Background: Tobacco Use among PLWH

- Over 1.1 million people in the U.S. are living with HIV (2015)
 - An estimated **40% smoke cigarettes**
- PLWH who use tobacco suffer greater morbidity and mortality
 - Life expectancy is reduced by **at least 16 years**
- Diversity of the population

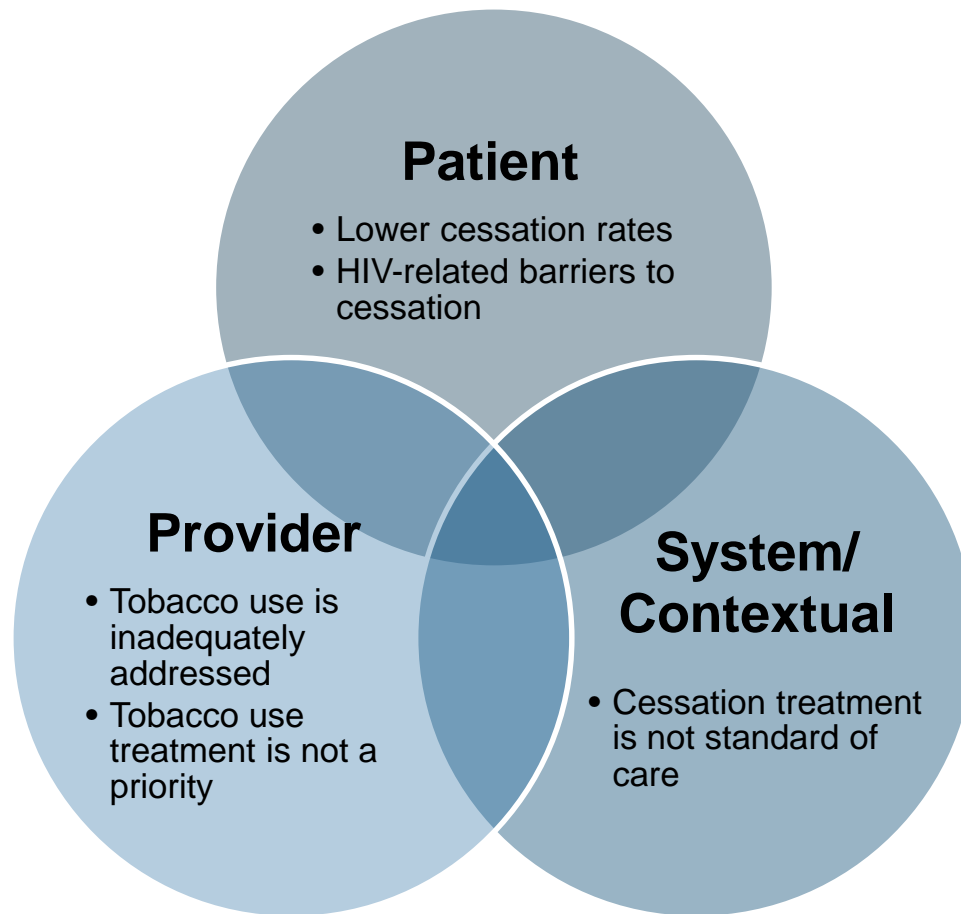
Background: Tobacco Cessation among PLWH



Need for randomized clinical trials among PLWH who smoke examining the effectiveness of:

- 1) medications and behavioral interventions
- 2) motivational interviewing and educational approaches
- 3) social support networks

Tobacco Cessation Challenges for PLWH



Literature Review

Nicotine & Tobacco Research, 2016, 2177–2184
doi:10.1093/ntr/ntw126
Review
Advance Access publication May 31, 2016



SRNT



Review

Smoking Cessation for People Living With HIV/ AIDS: A Literature Review and Synthesis

David M. Ledgerwood PhD, Russell Yskes MD

Department of Psychiatry and Behavioral Neurosciences, Wayne State University School of Medicine, Detroit, MI

- Few studies have assessed the efficacy of tobacco cessation treatments
- Lack rigorous methods

Purpose of the FOA

- Support R01 and R21 grants that develop and evaluate interventions to promote tobacco cessation in PLWH in the U.S.
- Methodologically rigorous studies that seek to develop more effective tobacco cessation interventions for PLWH

Example Research Questions

- What types of evidence-based tobacco cessation interventions are most effective in helping PLWH to achieve long-term tobacco abstinence?
- How can traditional evidence-based tobacco cessation interventions be tailored or adapted for PLWH, including the development and testing of culturally acceptable and effective interventions that address tobacco-related health disparities among PLWH?
- What are the barriers to integrating evidence-based tobacco cessation treatment interventions into the existing HIV prevention and treatment context?
- How can evidence-based tobacco cessation treatment interventions be effectively integrated into diverse HIV care settings?
- How does the social and behavioral context of tobacco use in PLWH, including the use of alcohol and other drugs, influence tobacco use behaviors and cessation outcomes?
- How can relapse prevention strategies best be incorporated into existing evidence-based tobacco cessation interventions for PLWH?

Response to BSA Review Committee (Colditz, Smith, and Emmons)

- Implementation Science
 - Applicants must consider implementation in the development of their studies and include outcome measures related to implementation
- Evidence-Based Tobacco Cessation Interventions
 - Added to example research questions
 - Will be included in FOA language

Response to BSA Review Committee (Colditz, Smith, and Emmons)

- PLWH are a heterogeneous group
 - Will Add Research Question: *Considering the diverse and unique needs of PLWH, including culture, how can evidence-based tobacco cessation interventions be adapted to best reach and be effective in specific groups?*
- Interaction between HIV treatment adherence and smoking cessation
 - Will Add Research Question: *How does HIV treatment adherence play a role in the effects of smoking cessation interventions?*



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