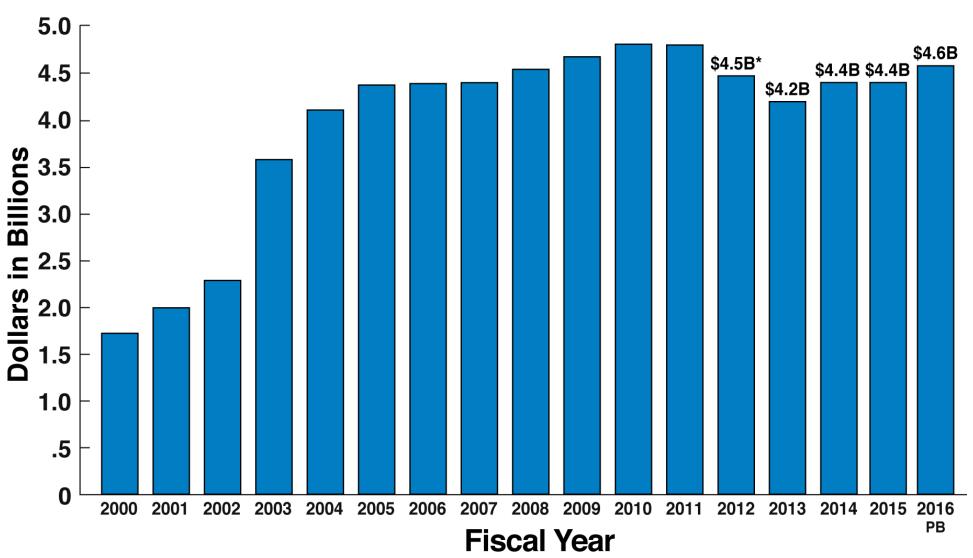
Prevention, Where Are We Headed?

Carl W. Dieffenbach, Ph.D.

Director
Division of AIDS, NIAID
June 5, 2015



NIAID Funding, FY 2000-2016



*Beginning in FY 2012, budget no longer passes through funds to the Global Fund.

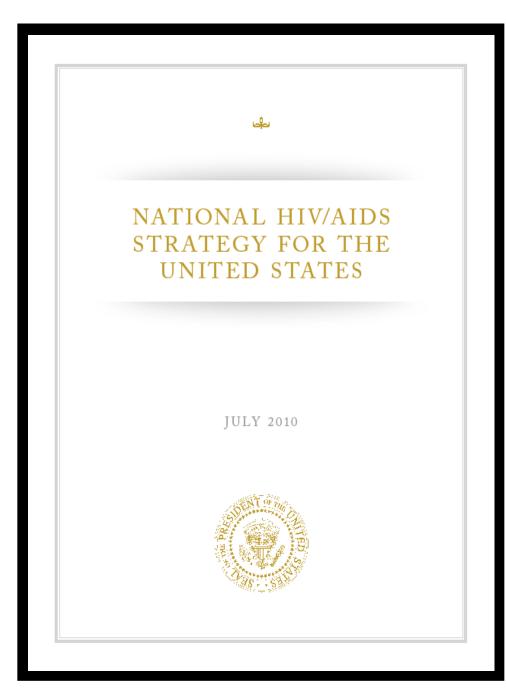
HIV/AIDS Strategic Goals

NIAID:

Provide the scientific basis for achieving an "AIDS-free generation" by developing a safe and effective HIV vaccine as well as improved combination prevention strategies, optimization of treatment modalities, and novel therapeutic approaches towards a cure for HIV infection

<u>DAIDS</u>: Develop and support the infrastructure and biomedical research needed to:

- Halt the spread of HIV through the development of an effective vaccine and biomedical prevention strategies that are safe and desirable
- 2. Develop novel approaches for the treatment and cure of HIV infection
- 3. Treat and/or prevent co-infections and co-morbidities of greatest significance
- 4. Foster partnerships with scientific and community stakeholders to develop and implement effective interventions



- Reducing HIV incidence
- Increasing access to care and optimizing health outcomes
- Reducing HIV-related health disparities



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Prevention of HIV-1 Infection with Early Antiretroviral Therapy

HPTN 052 Study Team



Breakthrough of the Year: HIV Treatment as Prevention

J. Cohen





National Institute of Allergy and Infectious Diseases (NIAID)

http://www.niaid.nih.gov/

FOR IMMEDIATE RELEASE Wednesday, May 27, 2015

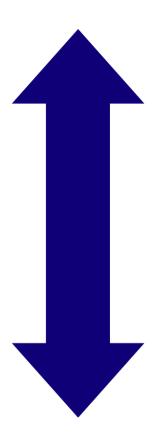
Starting Antiretroviral Treatment Early Improves Outcomes for HIV-Infected Individuals

- 4,685 HIV-infected men and women ages 18 and older from 35 different countries were enrolled
- Interim analysis found risk of developing serious illness or death was reduced by 53% among those in the early treatment group, compared to those in the deferred group

Treatment Treatment versus is

Prevention Prevention

Biomedical Interventions

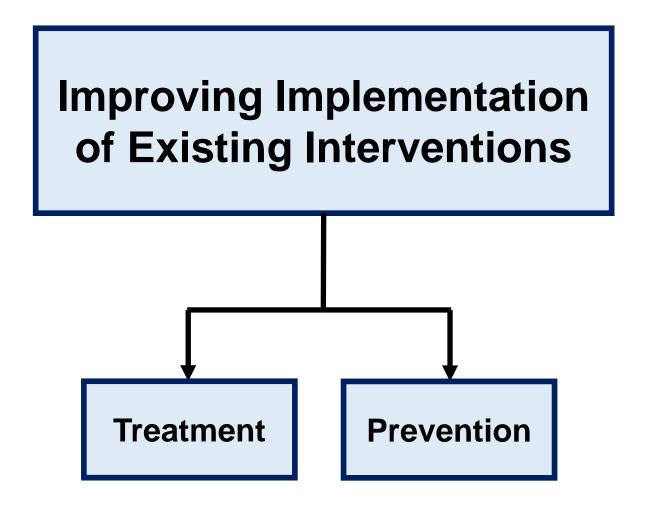


Behavior and Adherence

Optimistic, Long-Range Vision

- An HIV vaccine is within our grasp
- Microbicides and pre-exposure prophylaxis (PrEP) will find a niche with sustained release formulations
- Roles of broadly neutralizing antibodies in prevention and therapy will be evaluated
- The therapeutic armamentarium will continue to improve with the development of formulations requiring only 4-12 doses per year
- PrEP will also evolve to 4-12 doses a year
- These tools will help control the HIV pandemic

The Science of HIV/AIDS: Much to Do



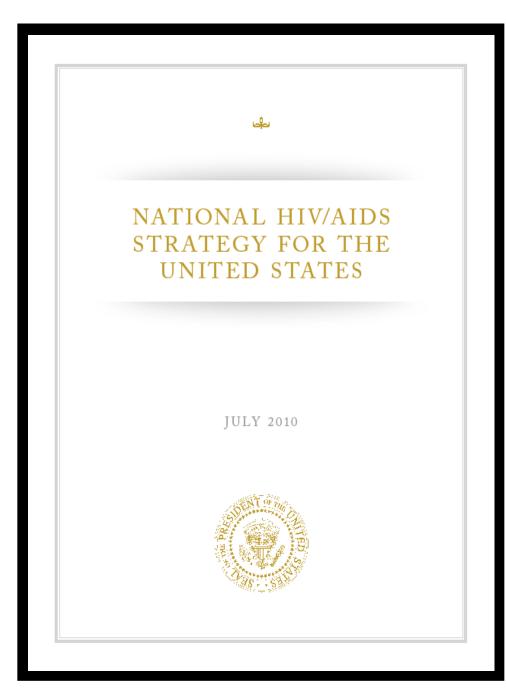
Examples of Partnerships for Implementation

International – PEPFAR

- Cluster randomized studies of ART
- Evaluation of ways to implement proven prevention methods
- Capacity building

Domestic – Collaborations between Academic Institutions, Departments of Health and CDC

- City focus
- Improving the continuum of care
- CDC's Enhanced Comprehensive HIV Prevention Planning (ECHPP)
 Project



- Reducing HIV incidence
- Increasing access to care and optimizing health outcomes
- Reducing HIV-related health disparities