Vaccine Development for Sexually Transmitted Infections

The STI Vaccine Roadmap
New Global Health Sector Strategy for Sexually Transmitted Infections

Vision, Goal and Targets

- Frameworks for action: Universal health coverage; the continuum of services; and, a public health approach

Strategic Direction 1:
Information for focused action
The who and the where

Strategic Direction 2:
Interventions for impact
The what

Strategic Direction 3:
Delivering for equity
The how

Strategic Direction 4:
Financing for sustainability
The financing

Strategic Direction 5:
Innovation for acceleration
The future

- Control the spread and impact of gonococcal AMR
- Fully utilize HPV and Hep B vaccines
- STI vaccine development
STI Vaccine Roadmap

- Joint WHO/NIAID technical consultation on STI vaccines
- Global roadmap for STI vaccine development
- Critical next steps from pre-vaccine development through vaccine introduction

Available at: [link](http://www.sciencedirect.com/science/journal/0264410X/32/14)
STI vaccine roadmap: 9 priority action areas

1. Obtain better epidemiologic data
2. Improve understanding of STI natural history, burden of sequelae
3. Model the theoretical impact of STI vaccines
4. Advance basic science research for STI vaccines
5. Conduct basic & translational studies in human clinical settings as soon as possible
6. Define preferred product characteristics (PPCs) for 1st generation vaccines
7. Expedite clinical development and evaluation
8. Plan for vaccine introduction in advance
9. Encourage investment in STI vaccine development
Overarching STI vaccine roadmap activities

**STI vaccine value propositions**
- Communicate public health need for vaccine
- Inform decision-making: how the vaccine can address the need
- Guide investment

**STI vaccine PPCs**
- Consensus on characteristics of vaccines meeting priority public health goals
- Low- and middle-income country (LMIC) focus

**Global STI Vaccine Initiative**
- Coordinating mechanism to facilitate roadmap implementation
- Share knowledge and resources
- Gain consensus on roadmap work plan
Current Status of the Development Pathway of STI Vaccines

Basic research
- Trichomonas vaginalis
- Treponema pallidum

Preclinical development
- Neisseria gonorrhoeae
- Chlamydia trachomatis

Clinical evaluation
- Herpes simplex virus