

The STI Epidemics

Antonio Gerbase - GFMER



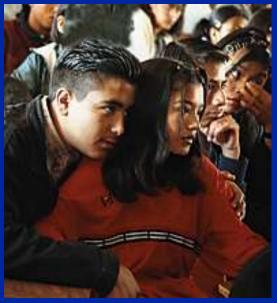


Since the 80's HIV/AIDS



... and, since BC, the STI epidemic











Sexually Transmitted Infections

- Spread from one infected person to another through sexual intercourse.
- Some infections may also be transmitted from mother to child during pregnancy and childbirth.
- Another way that infections are passed on is through the sharing of blood products or tissue transfers.
- Some diseases caused by STIs include syphilis, AIDS and cervical cancer.

Sexually Transmitted and Endogenous Infections

Urethral discharge



Swollen glands



Genital ulcer



Vaginal discharge





HPV infection/Genital warts







Sexually Transmitted Infections

- Caused by more than 20 microorganisms (some bacterial other viral)
- Most present in form of 5 syndromes
 - Urethral discharge
 - Genital ulcer
 - Vaginal discharge
 - Swollen glands
 - Lower abdominal pain





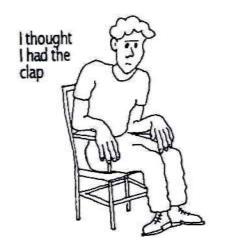




Reproductive Tract Infections (RTI)

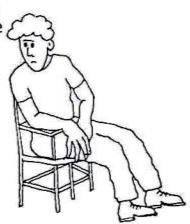
- Iatrogenic infections
 - e.g. post abortum
- Endogenous Infections
 - e.g. Candida albicans and bacterial vaginosis
- Sexually Transmitted Infections (STI)
 - e.g. gonorrhea, syphilis, herpes

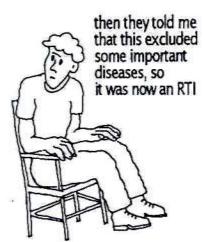
Changing terminology...

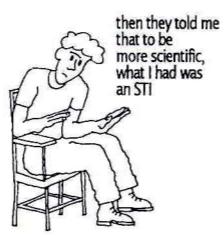




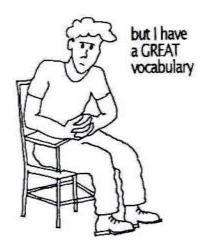
then they told me some people were embarrassed to have a VD, so it was now an STD











HPV



- One of the most deadly STI.
- Virtually all cervical cancer cases are linked to genital infection with the virus.
- Cancer of the cervix is the second most common cancer in women, with about 500 000 new cases and 250 000 deaths each year.
- The new vaccine that prevents the infection could reduce these cervical cancer-related deaths.

Sexually Transmitted Infections



- Frequently without symptoms
 - Considerable morbidity
- High incidence and prevalence
 - High rate of complications
- Bigger problem in women and young people
 - Facilitate HIV transmission

STI: complications and sequelae



- PID Ectopic pregnancy Infertility
- Perinatal, infant infections (congenital syphilis)
- Genito-anal cancers
- Facilitate HIV transmission

Preventable



- When used properly and consistently, condoms are one of the most effective methods of protection against STIs, including HIV infection.
- Although the female condom is effective and safe, it is not as widely used in national programmes because of its higher cost when compared to male condoms.

Determinants



- Social or economic conditions, and some sexual behaviours increase a person's vulnerability to STIs.
- Populations most-at-risk for STIs vary from setting to setting, depending on local culture and practices.
- Interventions to prevent and care for STIs should be intensified for such populations.
- Services must minimize stigmatization and discrimination.

Determinants of STI epidemic

Macroenvironment

- Socioeconomic factors
 - poverty
 - gender inequality
- Cultural
 - health seeking behaviours
 - silent on sex issues

- Epidemiological
 - STIs prevalence
- Demographic
 - population age structure
 - sex ratio
 - Political commitment

Determinants of STI epidemic

Microenvironment

Biological

- gender
- age
- other STIs

Hormonal

- use of hormonal contraceptive
- pregnancy

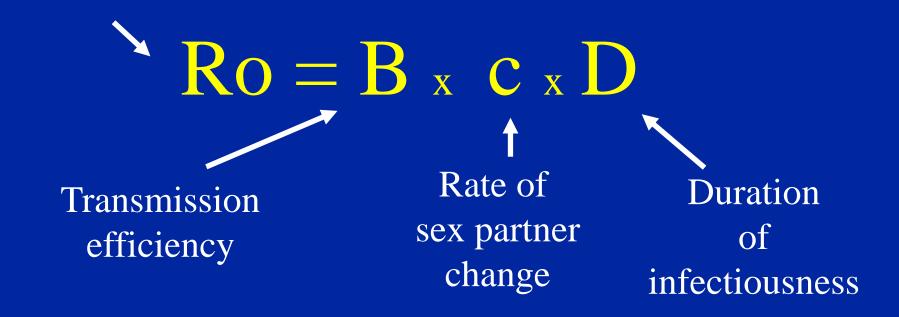
Immunological

Behavioural

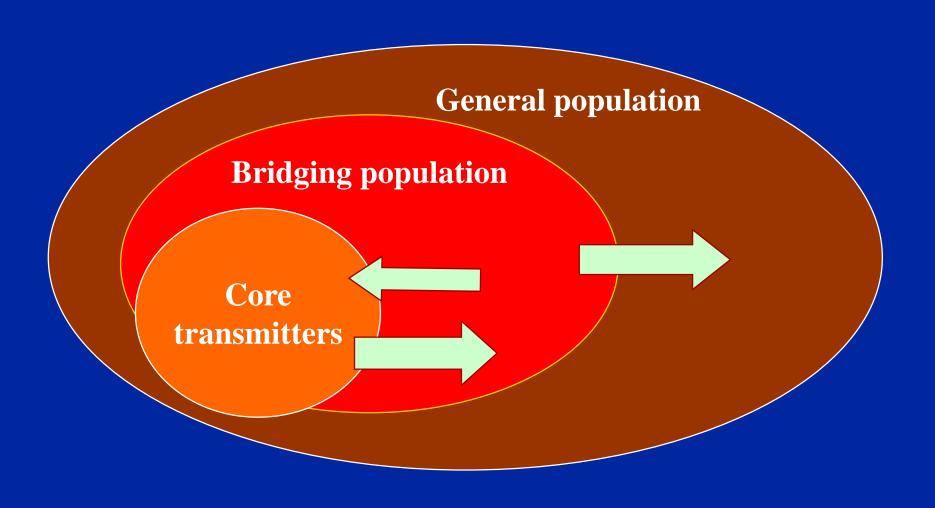
- age at coital debut
- multiple sexual partners
- anal sex
- sex during menstruation
- dry sex
- vaginal douching
- male circumcision
- drug or alcohol use

How STIs disseminate?

Basic Reproductive rate



STI transmission dynamics at population level



HIV and STI at clinical settings

- Identification and early intervention with people living with HIV, particularly those recently infected.
- HIV testing and counselling of STI patients, detection of acute HIV infection.
- Regular STI screening and treatment to reduce genital viral load.
- Clinical interventions as an extension of prevention work, reinforcing prevention messages and promoting condoms.

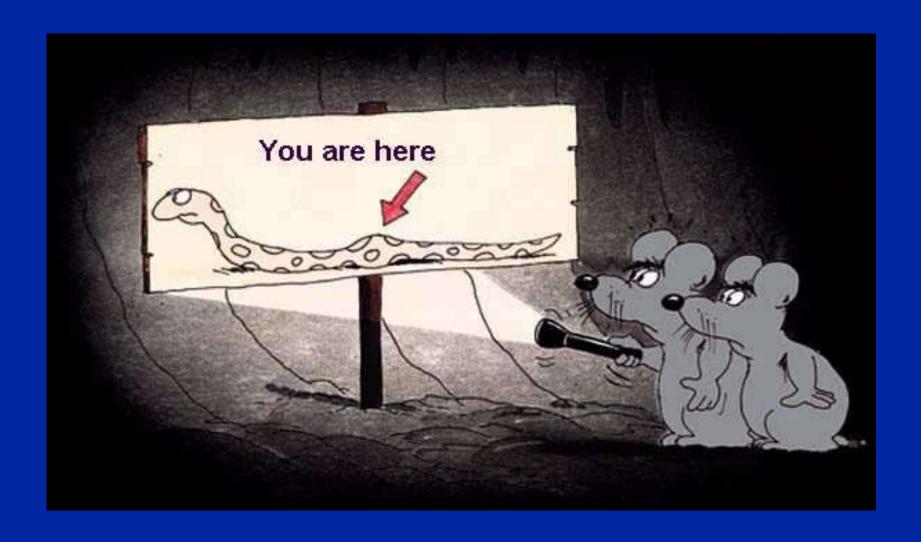
Key conclusions STI and HIV, services must include

- Counselling
- Offer to test for HIV
- Advice on safer sex
- Condom promotion
- Delayed sexual debut for young people
- Fewer sexual partners
- Information on the role of male circumcision in the prevention of HIV infection
- Access to antiretroviral treatment

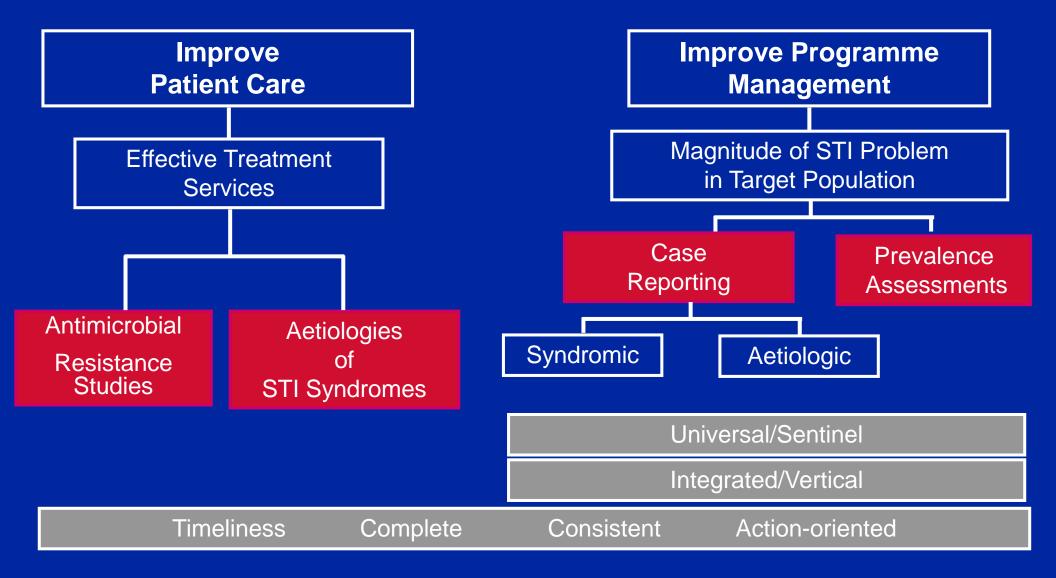
Components of STI surveillance

- Case reporting
- Prevalence assessment and monitoring
- Assessment of syndrome etiology
- Monitoring of antimicrobial resistance
- Special surveillance-related studies
- Estimates

The use of STI surveillance data



Added Value of STI Surveillance





The STI Epidemics

Antonio Gerbase - GFMER

Thank you



