HIV quiz, ILGA Conference, Riga

Gus Cairns, Editor, NAM (www.aidsmap.com)  
Policy Working Group, EATG  
See www.hivt4p.org
Global HIV prevalence

NEW HIV INFECTIONS, GLOBAL, 2001-2012

AIDS DEATHS, GLOBAL, 2001-2012

PEOPLE LIVING WITH HIV, GLOBAL, 2001-2012

UNAIDS report 2013
Regional HIV diagnoses

FIGURE 1.1
New HIV infections among adults in low- and middle-income countries, by region, 2001–2012

LOW- AND MIDDLE-INCOME COUNTRIES

SUB-SAHARAN AFRICA

ASIA AND THE PACIFIC

EASTERN EUROPE AND CENTRAL ASIA

LATIN AMERICA

UNAIDS report 2013
Prevalence in MSM regional

FIGURE 1.10
HIV median prevalence among men who have sex with men, by region, 2007–2012*

Source: GARPR 2013

*See footnote to Figure 1.5.
Relative prevalence, MSM

Source: Chris Beyrer, op cit
HIV prevalence in trans* women worldwide

Per–act probability of HIV transmission

Estimated number of exposures needed to HIV (average viral load off-treatment) for one infection to occur

Sources: UK PEP guidelines and US CDC transmission estimates
It’s what you do. But it’s also who you do it with…

Condomless sex gay men UK

Unprotected anal sex in UK MSM, from GMSS: 1998 onwards

- Percentage of gay men having AI in last year who had UAI
- Percentage of all sexually active gay men who had UAI in last year
- Linear (Percentage of gay men having AI in last year who had UAI)
- Linear (Percentage of all sexually active gay men who had UAI in last year)
Condomless sex Europe: not same-status partner

Figure 7.10b: Non-concordant UAI with any male partner in the preceding 12 months

Figure 7.12: UAI with the most recent non-steady partner among respondents who had had sex with non-steady partners

Percentage

Treatment access, global regions

Source: UNAIDS 2012 estimates.

European AIDS Treatment Group

nam
“When they say ‘bring your partner’, and then you bring the same sex partner, they are like ‘yah, this is why you are having HIV, this is why’, and they will be throwing words at you...so then you’ll get embarrassed, you will decide to leave without being treated, and where are you taking that sickness to?”

– Young Swazi MSM
Kennedy CE et al JIAS 2013 16(supp 3):18749
Social inequality in Europe

Diagnosis and CD4 count by education level, 6 European countries

HIV life expectancy on treatment

Margaret May et al. Life expectancy of HIV-1-positive individuals approaches normal conditional on response to antiretroviral therapy: UK Collaborative HIV Cohort Study. Eleventh International Congress on Drug Therapy in HIV Infection, Glasgow. 11 – 15 November 2012
The HIV prevention revolution – 2003

2003: Reduction in HIV infections or increase in condom use

- Info-only behaviour change (condom use)
- "Active" behaviour change progs (condom use)
- 100% condoms in anal sex (1 observational study)
- nPEP (1 observational study)
- 100% condoms (3 meta analyses)
- PMTCT (Pre-1993 rate vs best African study up to 2003)

Bar chart showing percentage reductions or increases in various categories.
The HIV prevention revolution – 2014

2014: Maximal reduction in HIV incidence risk documented in different study designs (by program area)

- VOICE microbicide
- RV144 HIV vaccine
- iPrEx PrEP
- Cash transfers + care (risk behaviour)
- 100% condoms, anal sex
- 100% condoms, vaginal
- PrEP: >60% adherence
- TasP (PARTNER: expected vs. actual infections)
- FemPrEP and VOICE PrEP
- Syringe exchange programmes
- Behaviour change programmes
- TDF2 PrEP
- Partners PrEP
- 100% condoms, anal sex PLUS behaviour change
- TasP (HPTN 052)
- Community combination prevention
- Vaginal Microbicide
- Bangkok PWIDs PrEP study
- Male circumcision
- PEP
- Comprehensive Harm Reduction in PWIDs
- PMTCT (pre-1993 vs. post-2010)
The only person cured of HIV