Epidemiology of HIV infection in the UK

Time to Test for HIV
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Overview

- Background epidemiology of HIV in the UK
  - Estimation of HIV prevalence in the UK
  - Trends in new diagnoses of HIV
  - Late diagnosis of HIV
  - HIV Testing behaviour
Trends in the estimated number of adults (15-59) living with HIV in the UK: 2001-2009

- Total (15-59 yrs) = 80,800 (76,500-85,800)
- Total (All ages) = estimated 86,500

Injecting drug

- 6900
- 2100
- 25000
- 10,000
- 15000

HIV and STI Department - Centre for Infections
Trends in the estimated number of MSM (15-44) living with HIV in the UK: 2001-2008

Diagnosed HIV prevalence by age group, UK: 2000-2009
Prevalence of diagnosed HIV infection, UK, 2009

Number of new HIV diagnoses: by prevention group, UK: 2000-2009

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1 Data are adjusted for missing route of infection
2 Includes Mother to child transmission and blood product recipient
Late HIV diagnosis and associated short-term mortality by prevention group

- Proportion diagnosed late (<350)
- Short-term mortality* (Diagnosed late <350)
- Short-term mortality* (≥350)

Percentage died within first year

HIV and STI Department - Centre for Infections

Late¹ and very late² diagnosis of HIV infection by prevention group, UK, 2009

1. Diagnosed with CD4 cell count <350 per mm³ within 91 days diagnosis
2. Diagnosed with CD4 cell count <200 per mm³ within 91 days diagnosis

HIV and STI Department - Centre for Infections
Estimated very late^1 HIV diagnosis by prevention group in the UK, 1999-2009

Percentage of late^1 diagnosis of HIV infection by Strategic Health Authority, England, 2009
HIV testing in the UK

- **General Population**
  - NATSAL 2000/01 survey
  - Approximately 1/3 had had an HIV test
  - No major difference by sex

- **Health care Services**
  - Most (~80%) HIV testing in UK occurs in GUM or antenatal services (Tweed et al 2010)
    - 77% of STI clinic attenders (2009)
    - 95% of antenatal clinic attenders (2009)

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HIV testing in STI clinics in England, 2003-2009

![Graph showing number of HIV tests and percentage uptake of HIV testing from 2003 to 2009.](https://via.placeholder.com/150)
HIV testing in most at-risk populations in the UK

- **Men who have Sex with Men (MSM)**
  - 54% in last year and 88% ever (2008, UCL/HPA)
  - 30% in last year and 67% ever (2006, SIGMA)

- **Black Africans**
  - 52% had tested for HIV (2009, BASS line)
  - 50% males and 43% males had tested for HIV (2004, MAYISHA II)

- **Injecting Drug Users**
  - 38% had tested in last year and 75% ever tested (2009, UAIDU)
**Conclusion**

- HIV continues to be a major public health problem in the UK
- Late Diagnosis of HIV
- Expansion of HIV testing outside of traditional services
- Robust monitoring and evaluation to inform local practice and national policy