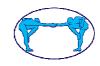


St Thomas' Hospital, London

6-8 April 2011, Bournemouth International Centre



HIV positive patients diagnosed with STIs on asymptomatic screening: the risk to public health

Martina Toby, Annemiek de Ruiter, John White, Daniella Chilton

Guy's and St Themas' All S

Background

- Concomitant sexually transmitted infections (STIs) increase the risk of HIV transmission
- BHIVA guidelines indicate that all patients with HIV should be offered STI screening at least once annually

Quinn TC Int J STD AIDS. 1996;7 Suppl 2:17-24.

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Aim

- ▶ To determine characteristics of the HIV infected cohort testing positive for STIs on asymptomatic screening
- To assess the risk of HIV transmission based on ARV history and HIV viral load

Methods

Retrospective analysis of HIV +ve patients with STIs in 2010 (Jan - Dec)

Data collected

- Age
- Ethnicity
- CD4
- Viral Load + ARVs
- Acquisition of other STIs in 2010

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Methods

- > STIs : GC, CT, syphilis, Hep C
- Did not include warts, HSV, TV
- ▶ Same infection at >1 site was classified as a single infection

- ▶ Testing methods:
- Serology : Syphilis, Hep
- ▶ GC CT TMA
- SCTS/SCRS/SCVS/FVU



Results

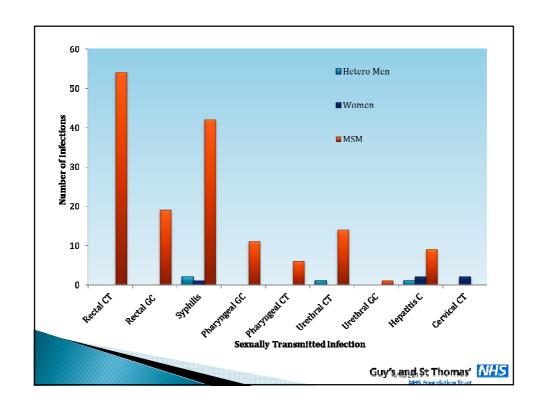
▶ 1323 asymptomatic STI screens performed in outpatient HIV clinic

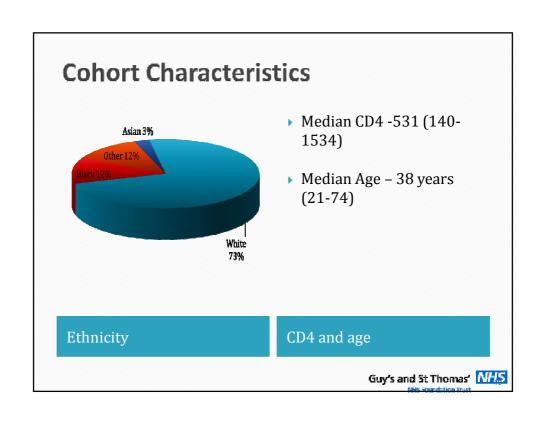
Sexual Orientation	No of asymptomatic screens	Percentage (%)
MSM	969	73
Hetero Men	132	10
Women	216	16
Unrecorded	6	1

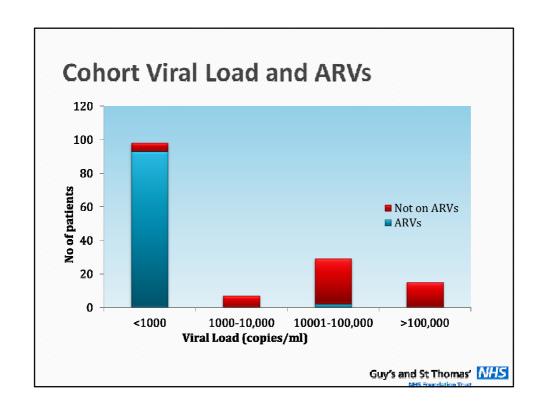
▶ 165 infections in 149 patients diagnosed on asymptomatic screens

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Positive results ▶ 152/969 (15.6%) MSM screens resulted in an Hetero Women infection Men 3%. > 5/216 (2.3%) screens done in women resulted in an infection MSM • 4/132 (3%) screens done 94% in hetero men resulted in an infection STIs by sexual orientation **Proportion Positive screens** Guy's and St Thomas' NHS



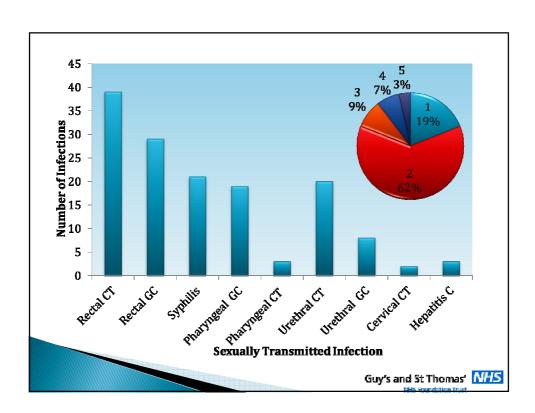


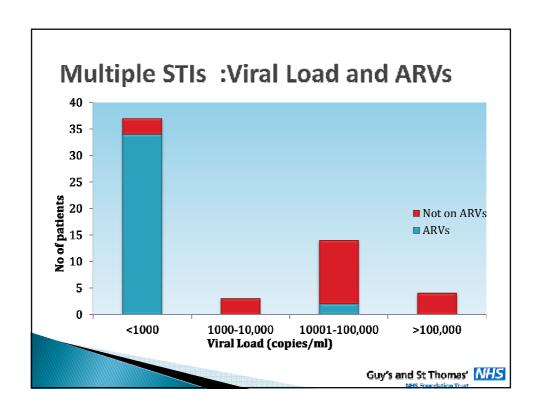




Multiple STIs characteristic

- ▶ 58/149 (39%) patients had STIs diagnosed on >1 occasion within the analysis period
- > 57/58 (98%) were MSM
- ▶ 44/58 (76%) of white ethnicity, 8/58 (14%) black ethnicity
- Median CD4 was 533 (98-1350), median age was 36 years (21-59)
- ▶ 9/58 (16%) were Hep C co-infected





Results

- Patients testing positive for STIs most likely to be white British MSM between 31-40 years, on ARVs with CD4 counts >350
- Rectal CT and syphilis most common infections on asymptomatic screening
- Rectal CT and rectal GC most common in patients with multiple infections
- Over a third of patients with multiple episodes of STIs had HIV viral loads >1000 copies/ml

Discussion

- High prevalence of STIs and high rate of recurrent infection within this cohort
- If having serodiscordant partners presence of rectal STIs may be facilitating HIV transmission
- Targeted ARV therapy may decrease HIV infection rates at a population level
- Risk reduction therapy has proven highly effective in some cases

Das M et al CROI 2011 Paper #33, # 1022 Fox, J et al HIV Med 2009 Aug; 10(7):432-8

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Recommendations

- ▶ Evaluating HIV +ve MSM patients for ARVs if presenting with > 1 STI/year despite CD4 > 350
- Guidelines changed from annual to quarterly testing for HIV +ve MSM
- Intensive risk reduction therapy
- Dedicated partner notification service for HIV outpatient setting



Limitations

- No record of STIs diagnosed at different clinics so our figures may be underestimated
- Information on serosorting/venue related sex/recreational drug use not collected
- Uptake of screens not recorded

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Acknowledgements

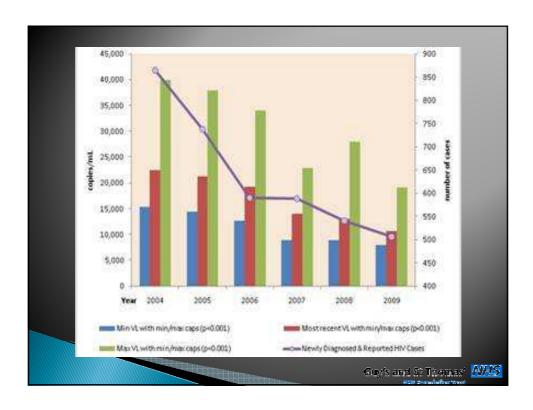
- Nursing staff at Harrison Wing STH
- ▶ GU Consultants at St Thomas' Hospital : Annemiek de Ruiter, John White, Daniella Chilton



Reducing Community Viral Load

- San Francisco department of public health prioritized earlier initiation of ARV between 2004-2009
- Evaluated ALL HIV+ve individuals for ARV
- Resulted in higher CD4 counts at initiation and reduced time from diagnosis to virologic suppression
- Decline in community viral load correlated significantly with decrease in newly diagnosed HIV cases

Das M et al CROI 2011 Paper #33, # 1022



Risk Reduction Therapy

- Behaviour change interventions targeted at primary HIV (PHI) diagnosis in 98 MSM patients
- MSM with PHI were interviewed at diagnosis and at 12 weeks post diagnosis
- Received 12 weeks of standard counselling
- In the 12 weeks post diagnosis 76% of participants eliminated risk of onward transmission entirely with greater condom use and fewer sexual partners

Fox, J et al HIV Med 2009 Aug; 10(7):432-8

Risk Reduction therapy

- Cochrane review examined 58 interventions including small group and individual interventions
- 27% reduction in occasions of or partners for UPAI
- Most effective were studies with an intervention $span \le 1 month$
- In community level interventions greatest successes were observed where $\geq 90\%$ were white and studies where the intervention addressed development of personal skills

Johnson et al Cochrane Database Syst Rev. 2008

