Refocusing our efforts

transmission and late diagnosis among adults aged 50 years and over

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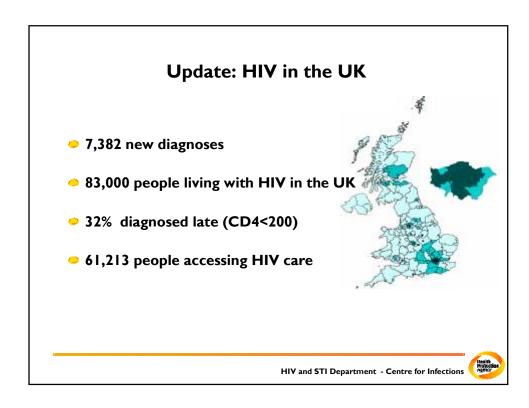
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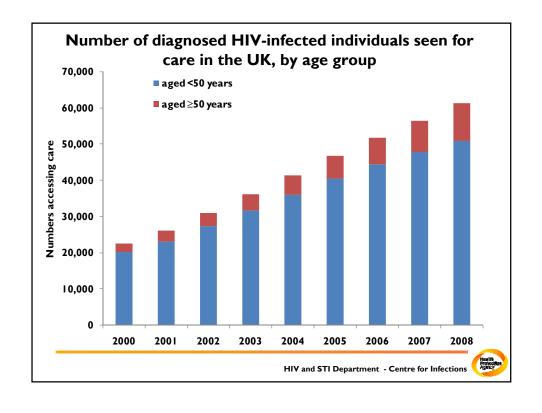


Aim of presentation

- I. Brief overview of the HIV epidemic in the UK
- 2. Focus on a study looking at adults aged \geq 50 years







Study

Aim:

- I. Describe the epidemiology and impact of late diagnosis among older adults living with HIV
- 2. Estimate age at infection

Key questions:

- 1. How do older adults contribute to overall diagnoses?
- 2. Ageing Cohort or newly acquired infections?

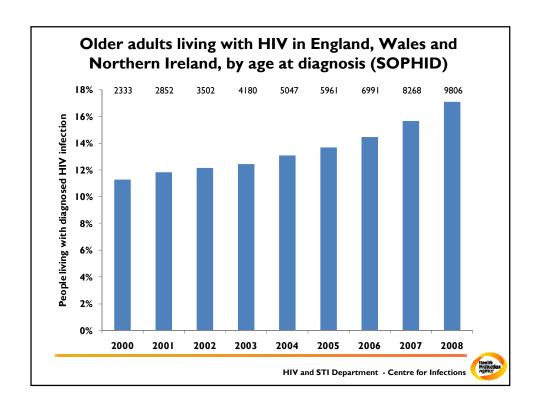
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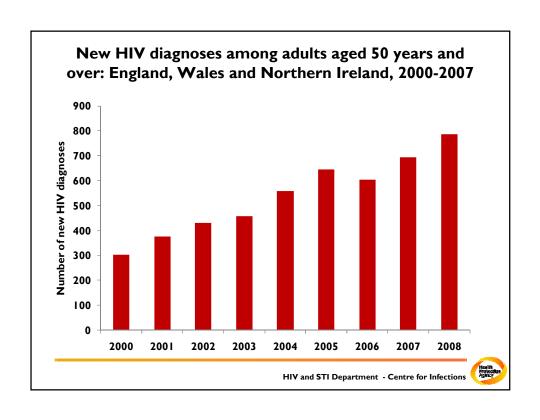


Study

- Method: Comparative analysis between individuals diagnosed aged ≥50 years and individuals diagnosed <50 years
- Data: National Surveillances
 - New diagnoses
 - SOPHID (individuals accessing HIV-related care)
 - CD4 Surveillance
- Population: Adults aged ≥15 years diagnosed or accessing HIV-related care, 2000-2007, E,W&NI





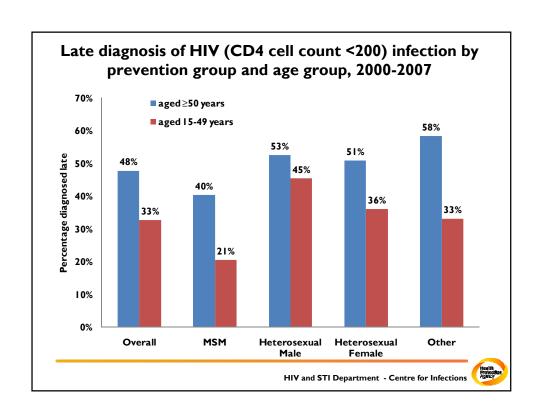


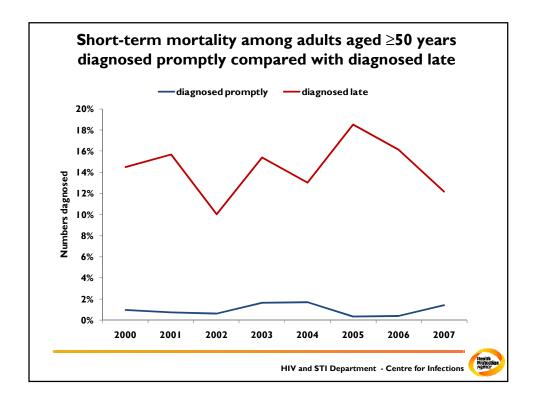
Characteristics of adults first diagnosed in E,W&NI between 2000-2007, by age at diagnosis

Category	Variable	50 years and over %	15-49 years %	P value
Sex	Male	74%	58%	<0.001
	Female	26%	42%	<0.001
Probable route of infection	Men who have sex with men	40%	34%	<0.001
	Heterosexual men	33%	22%	<0.001
	Heterosexual women	25%	41%	<0.001
	Other	2.6%	2.9%	0.23
Ethnicity	White	60%	38%	<0.001
	Black African	31%	50%	<0.001
	Other	9.1%	7.9%	0.009

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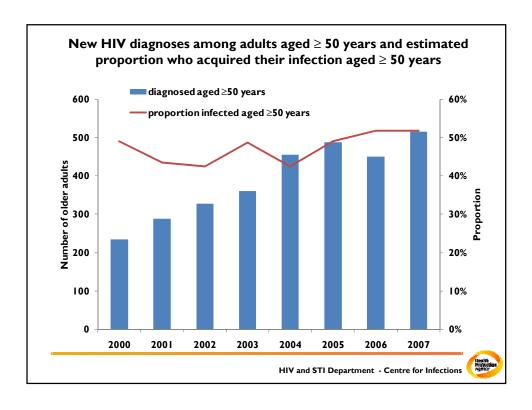


Estimated age at infection

- Aim #2: Estimate age at infection
- Estimated applying a Markov Chain model ¹ of HIV progression based on CD4 cell count at diagnosis.
 - CD4 cell count less than 200 = Eight years
 - CD4 cell count between 200-349 = Six years
 - CD4 cell count between 350 -449 = Four years
 - CD4 cell count of 450 and above = Two years
- We estimate that 48% (1486) were aged ≥50 years at infection.

¹ Satten GA, Longini IM. Markov chains with measurement error: estimating the 'true' course of a marker of the progression of human immunodeficiency virus disease. Appl.statist. 1996;45:275-309





Summary

- Adults aged ≥50 years accounted for 8% of all new diagnoses
- Half of older adults were infected when aged ≥50 years.
- ${\color{red} ullet}$ One in six adults seen for HIV care are now aged \geq 50 years
- Compared to younger adults:
 - Male
 - Men who have sex with men
 - White ethnicity
 - Evidence of travel amongst heterosexual men
- Half present late (CD4 <200)</p>
- Those diagnosed late are 14 times more likely to die within a year of diagnosis (14% vs. 1%).
- Late presenters aged ≥50 years contribute to an estimated 30% of AIDS deaths in all individuals diagnosed in 2007



Recommendations

- Increased targeted prevention efforts for older adults
- Increased HIV testing strategies for older adults
- Global and national surveillance outputs should include older age groups

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