



Dr Martin Fisher

Royal Sussex County Hospital, Brighton

6-8 April 2011, Bournemouth International Centre

17TH ANNUAL CONFERENCE OF THE BRITISH HIV ASSOCIATION (BHIVA



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COMPETING INTEREST OF FINANCIAL VALUE > £1,000:						
Speaker Name	Statement					
Dr Martin Fisher:	Dr Fisher has acted in a Consultancy capacity, received speakers fees or grant support from the following companies: Abbott. Bristol Myers Squibb, Gilead, Merck, Tibotec, Theratechnologies, Viiv.					
Date	1 April 2011					

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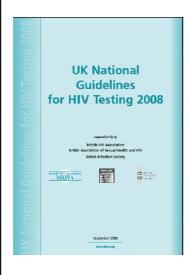
Roll-out of expanded HIV testing: How are we doing?

Martin Fisher
Brighton and Sussex University Hospitals

Background

- Significant numbers of individuals with HIV in the UK remain undiagnosed
- Results in potentially avoidable effects on individual and public health
 - Late diagnosis: morbidity and mortality
 - Onward transmission
 - Cost
- Many of these individuals have been in contact with healthcare (and other) services

2008 BHIVA/BASHH/BIS Guidelines



- Increasing "normalisation" of HIV testing
- High prevalence groups
 - Men who have sex with men
 - High prevalence countries
- Testing in clinical indicator diseases and specific clinical healthcare settings
- Testing in primary care and acute medical care in areas of high HIV prevalence

How are we doing?

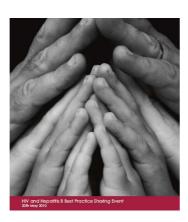
- Are the testing guidelines feasible and acceptable?
- Are the testing guidelines being implemented?
- Are the testing guidelines working?
 - Are testing rates improving in high prevalence groups?
 - Are we reducing undiagnosed infection and late diagnosis?
- Expanded HIV testing and the new NHS

DH Funded Pilots

Setting	Location	Offer Rate	Uptake Rate	Number tested	New cases	Positivity (/1000)
Acute	London (A&E)	63%	61%	2123	4	1.8
Medicine / A&E	London (AMU)	40%	70%	383	4	10.4
AGL	Brighton (AMU)	40%	91%	1413	2	1.4
	Leicester (AMU)	-	-	984	10	10.2
Secondary Care	London (OPD)	67%	72%	604	0	0
Primary	London	41%	67%	1001	0	0
Care	London	70%	62%	2713	19	7
	Brighton	48%	60%	1473	2	1.3
Community	London (Black Africans)			305	3	9.8
	London (Black Africans and MSM)			297	6	20
	Sheffield (MSM)			59	0	0

See: Thornton et al, #P129; Rayment et al, #07; Bryce et al, #08

Gilead Funded Pilots



UK AND IRELAND



- 2009/10
 - 3 in 1° care/community
 - 3 in 2° care
 - Uptake: 31% 86%
 - Seropositivity: 0-4%
- 2010/11
 - 18 testing projects
 - Includes:
 - Men via antenatal testing
 - Colposcopy
 - Lymphopaenia via laboratory
 - CIDs in primary care
 - TOP services
 - 19th May 2011 meeting

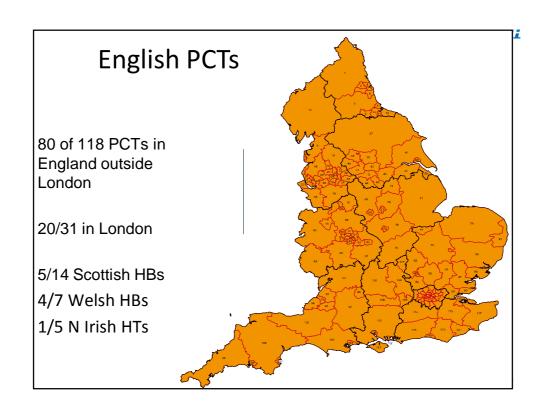
Testing Guidelines

"The introduction of universal HIV testing in these settings should be thoroughly evaluated for acceptability and feasibility and the resultant data made available to better inform the ongoing implementation of these guidelines"

Results from pilots:
 • feasible
 •acceptable

Are the testing guidelines being implemented?

- BHIVA survey of UK testing practise
- Survey of testing recommendations from other organisations/guidelines
- Recommendations versus practise



What do we think is happening? BHIVA Survey 2011

	Hi	gh prevalen	ce PCT (n=3	4)	Low prevalence PCT (n=98)				Overall adherence
Service	routine	selective	Not offered	Not answered	routine	selective	Not offered	Not answered	
ТВ	29 85%	2 6%		3 8%	63 64%	24 25%	1 1%	10 10%	92/119 77%
hepatitis	19 56%	6 18%		9 26%	47 48%	38 39%	1 1%	12 12%	68/111 61%
1° care	10 29%	6 18%	10 29%	8 24%	11 11%	10 10%	56 57%	21 21%	10/26 38%
Medical Admissions	2 6%	27 8%	3 9%	2 6%	1 1%	70 41%	18 18%	9 9%	2/32 6%

• 100/149 PCTs in England; Scotland, Wales, and Northern Ireland

See: BHIVA Audit session, Simon Ellis, Thursday 17.00

Recommendation for HIV Testing in Clinical Indicator Diseases

Specialty	CID	Guideline	Test recommended	Test considered	HIV mentioned	No mention	Comments
Respiratory	MTB	Pulmonary (BTS/NICE)		√			Risk assessment
		CNS (BIA)	V				
	Bacterial pneumonia	BTS			\checkmark		"guidelines do not apply"
Neurology	Dementia	SIGN			V		In diagnostic criteria for Alzheimers
	Peripheral neuropathy	NICE				V	
	CNS Lymphoma	BCSH	V				

Recommendation for HIV Testing in Clinical Indicator Diseases

Specialty	CID	Guideline	Test recommended	Test considered	HIV mentioned	No mention	Comments
Dermatology	Psoriasis	BAD SIGN				V	
Gastroenterology	Chronic diarrhoea	BSG			V		Refers to "non-HIV" persons
	HBV	NICE (RCP/BSG)			V		Excludes patients with HIV
	HCV	SIGN BSG			√		Test patients with HCV for HIV
Oncology	Head and neck cancer	SIGN				√	
	Anal cancer	BSColp. NICE	V		V		
	Lymphoma	NICE BSCH			√ √		Increased in HIV; HIV patients may not consent

Recommendation for HIV Testing in Clinical Indicator Diseases

Specialty	CID	Guideline	Test recommended	Test considered	HIV mentioned	No mention	Comments
Gynaecology	CIN/Cx Ca VIN	NSC RCOG			V	√	HIV test offer discouraged
Misc	Non- specific symptoms	NICE (CFS)		V			If history suggestive of chronic vial infection

13/47 Clinical Indicator Diseases have Specialist Guidelines 4/13 (31%; or 9% of total) recommend or consider HIV testing

HPA Survey of Specialist Societies involved in managing CIDs 11/17 were aware of BHIVA/BASHH/BIS testing guidelines 4/17 aware that this related to their speciality 5/17 included HIV testing in their guidelines

Recommendations versus practice: what is actually happening?

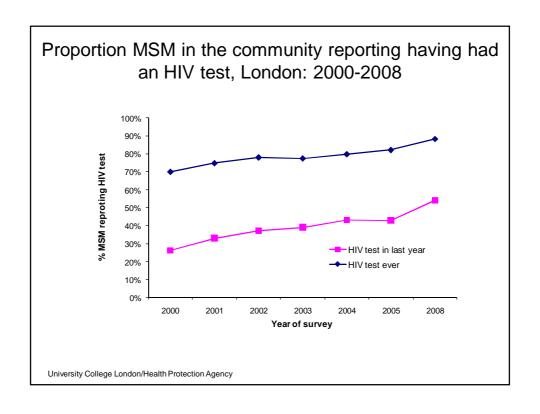
- HPA surveillance:
 - GUM testing
 - Antenatal testing
- Regular surveys
 - High prevalence groupsUCL, Sigma, etc.
- No surveillance
 - Clinical indicator diseases
 - Other clinical settings
 - Acute general medicine
 - Primary care
- Auditable standards within testing guidelines

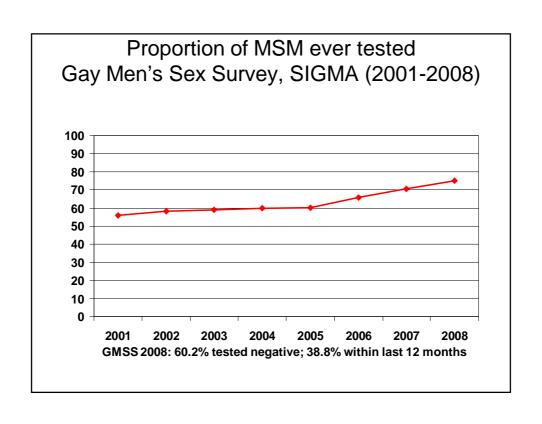
CID	setting	Test rate	reference
MTB	Birmingham	14-43%	2010; #114
	Dublin	63%	2010; #117
	Essex	76%	2010; #282
	Leeds	59%	2010; #283
	London	51%	Thorax, 2009 Rodger et al
Lymphoma	Essex	7%	2010; #282
	Sheffield	13%	2010; #122
Hepatitis B	Essex	22%	2010; #282
	Blackpool	8%	2010; #281
	Brighton	66%	2011; #P83
Hepatitis C	Essex	20%	2010; #282
	Blackpool	39%	2010; #281
	Brighton	40%	2011; #P83

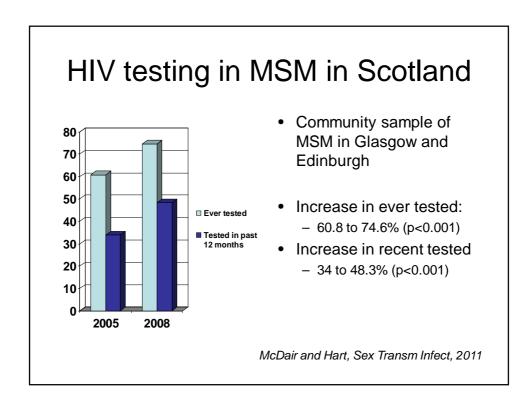
Are the testing guidelines working?

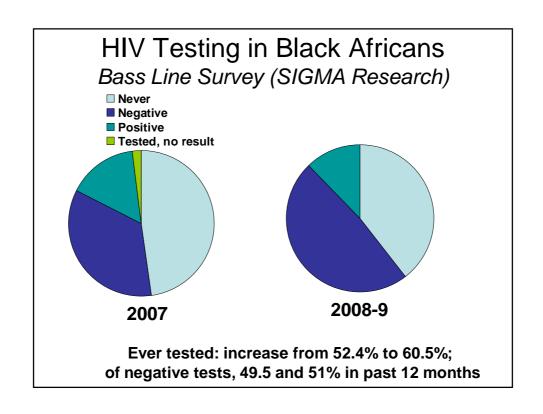
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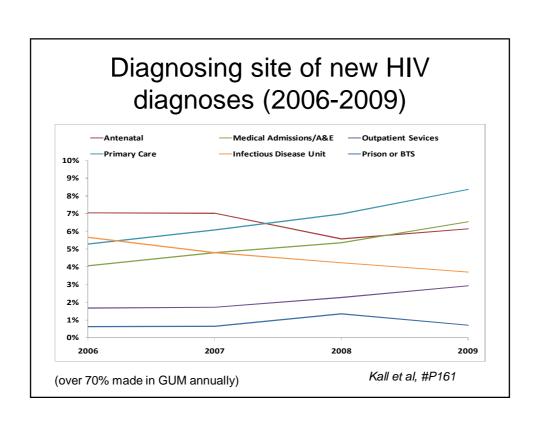








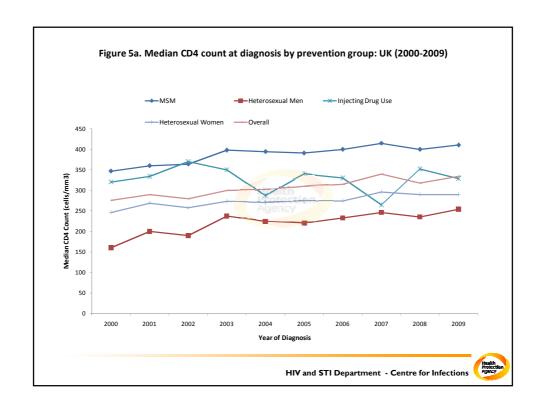
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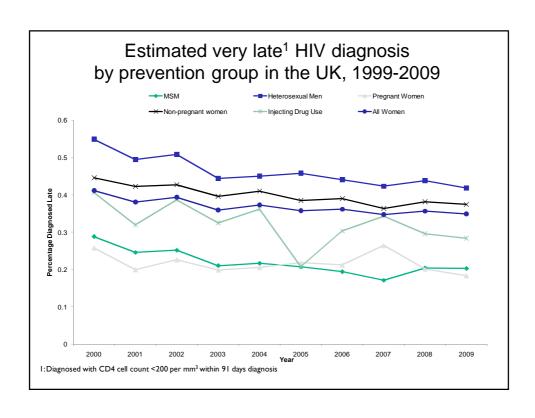


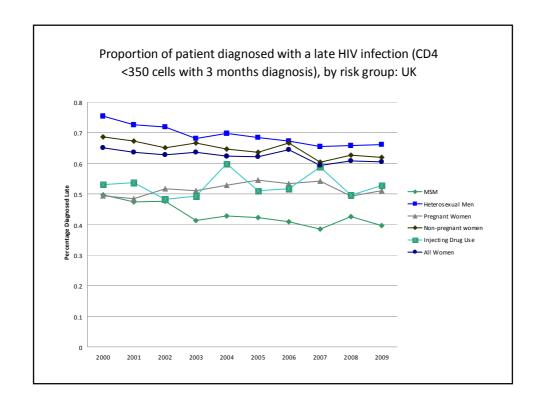
See also:

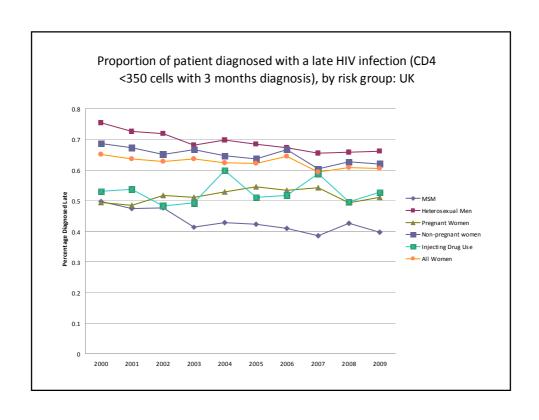
- #P136: use of laboratory data as surveillance of site and rate of HIV testing in primary care
- BHIVA Audit: 10% of new diagnoses made in primary care

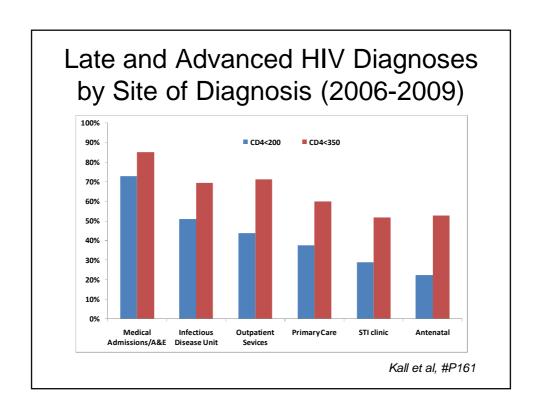
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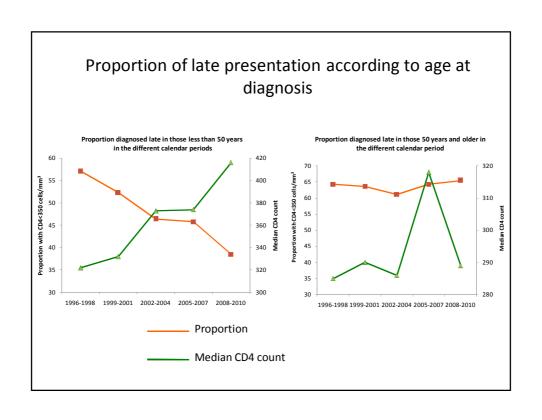


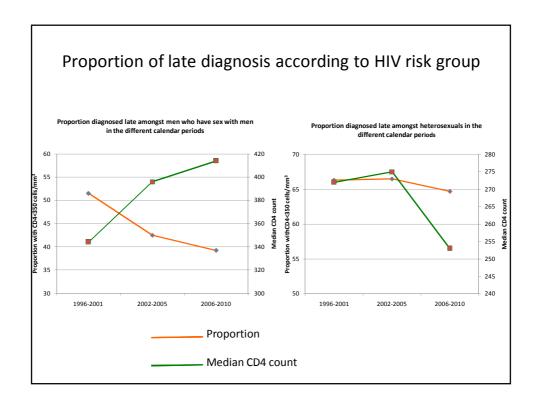




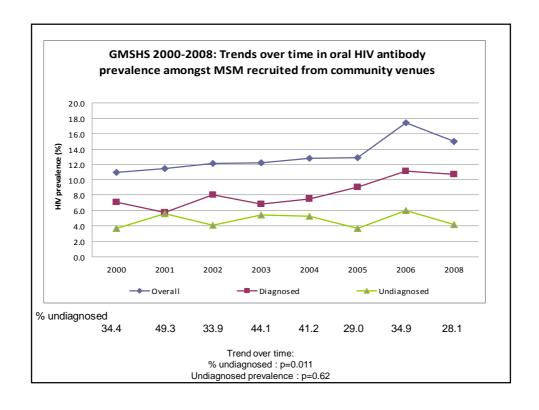


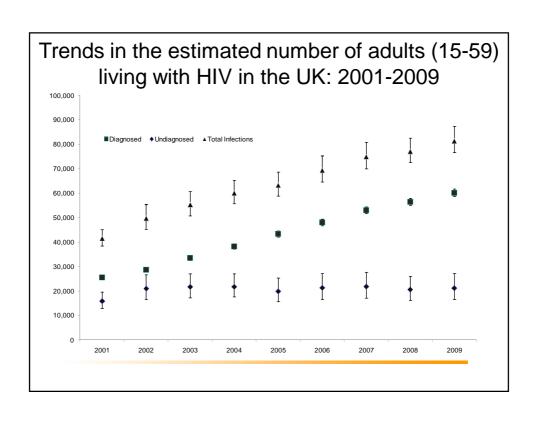




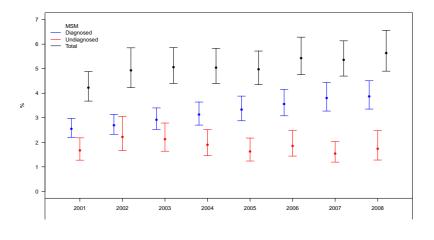


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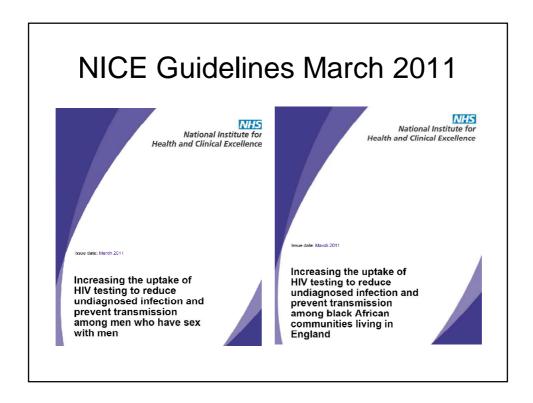
Trends in the estimated number of MSM (15-44) living with HIV in the UK: 2001-2008



Presnais et al. Insights into the rise in HIV infections in England and Wales from 2001 to 2008 from a Bayesian synthesis of prevalence evidence. AIDS 2010

HIV testing and the new NHS

- NICE HIV testing guidelines 2011
- Cost-effectiveness of expanded HIV testing
- HIV testing, surveillance and the new commissioning structure



Summary of NICE recommendations

- Endorses recommendations within BHIVA/BASHH/BIS Testing Guidelines
 - Focus on two main high prevalence groups
- Encourages increased testing in non-GUM healthcare settings
 - Testing in TOP, TB, hepatitis, lymphoma clinics
 - Focus on high prevalence areas
 - Testing in acute admissions and GP registrants
- Annual testing in primary care for MSM
- Increased community testing for MSM
 - Saunas, PSEs
 - Use of newer testing technologies
- Emphasises need for clear referral pathways

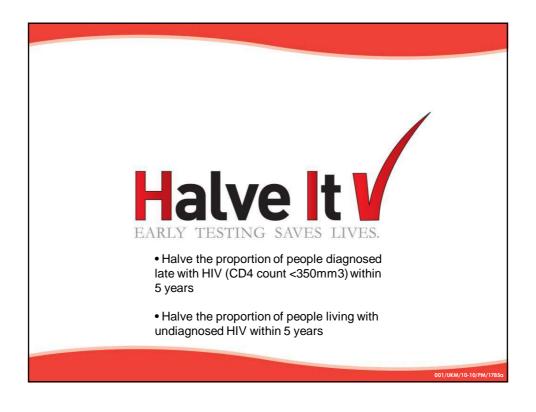
Cost-effectiveness

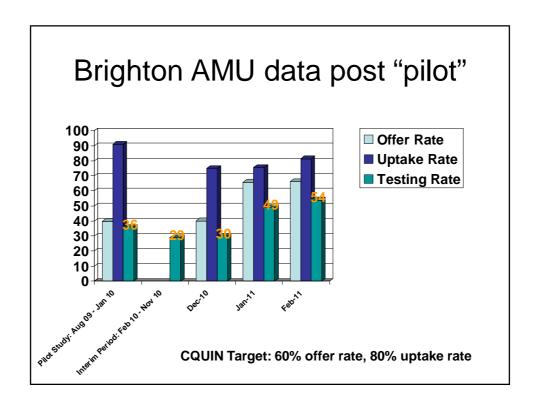
- US model: cost effective if prevalence >0.5/1000
- French model: cost-effective if prevalence >1/1000
- Cost-effectiveness data from DH pilots in primary and secondary care yet to be presented
- HPA 2009: Every infection averted would save £280-380,000 in direct healthcare costs
 - £1.1billion if all infections in UK in 2008 prevented
- NICE cost impact model:
 - based on testing of high prevalence groups and including assumptions of prevalence, treatment benefit, reduction in onward transmission
 - Allows costing of implementation of NICE recommendations at a local level
- · Cost-effectiveness of repeat testing strategies?

HIV testing and the new NHS commissioning structure

- Proposed indicator: proportion of patients presenting with a CD4 <350
- Where does "expanded" HIV testing sit within proposed new commissioning structure?
- Critical role of HPA for ongoing surveillance
- ? Public health premium should follow chosen indicator







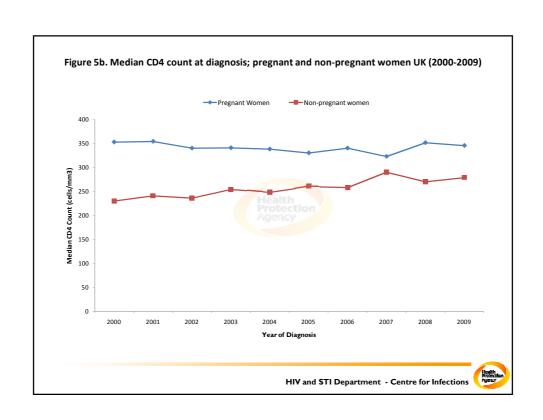
Sea Change?

Brighton: 2006
Late diagnosis
Missed Opportunities

Bournemouth 2011
Expanded HIV testing
New opportunities
16% of presented abstracts







Summary

- Increasing recommendation of expanded HIV testing
 - BHIVA/BASHH/BIS, NICE......
- Pilots all show acceptability of expanded testing
 - High patient uptake rates
 - Patient acceptability far outstrips physician acceptability
- Trend towards increased testing rates and reduced late diagnosis
- As a result of or coincident to testing guidelines?
 - Relatively limited implementation of guidelines
 - Low awareness in non-HIV physicians
 - Low inclusion of testing in non-HIV clinical guidelines

Recommendations

- Continue to lobby for "top-down" approach
 - Politically (e.g. "Halve It", support of White Paper)
 - Organisationally (implementation of NICE guidelines)
 - Engagement of other specialist societies
 - Education and incentivisation (public health indicator and/or QOFF
- Continue "bottom-up" approach in local areas
 - Informing of significance of late diagnosis
 - Informing of recommendations within testing guidelines
 - Audit of testing in clinical indicator diseases with involvement of relevant clinical team
 - Case-by-case discussion with all "missed opportunities"?
- Broaden access to HIV testing within non-healthcare settings

Acknowledgements

- Health Protection Agency
 - Alison Brown
 - Valerie Delpech
 - Meaghan Kall
 - Alicia Thornton
 - Anthony Nardone
- · British HIV Association
 - Jane Anderson
 - Hilary Curtis
 - Simon Ellis
- UCL
 - Graham Hart
 - Vicky Jones

- Brighton and Sussex University Hospitals
 - Mitesh Desai
 - Collins Iwuji
 - Jonathan Roberts
- SIGMA Research
 - Peter Weatherburn
- Gilead
 - Stephen Head
- "Halve it"
 - Rob Walton