

WEO World Endoscopy Organization

England Bowel Cancer Screening Programme FIT Pilot

Acknowledgements

- Prof Sue Moss
- Chris Mathews
- BCSP Southern Hub
- BCSP Midlands & NW Hubs

Prof Stephen P. Halloran
 Cancer Screening Programmes

NHS

Presentation messages - 15 min

- Model for future pilots** 'within programme'
 - easy to replicate with minimise disruption
- Monitoring analytical performance** across sites
 - 4 instruments & 2 sites

- FIT system designed to maximise uptake**
 - Emphasis on 'hard to reach' groups
- Exploiting Quantitative FIT**
 - Implications & opportunities

Bowel Cancer Screening in England

1996
 July 2006
 April 2014 FIT Pilot

2013
 Bowel scope screening

2010

17 million gFOBT analysed
 > 300,000 positives
 > 306,000 colonoscopies Found
 ➤ 23,000 cancers
 ➤ 73,000 advanced adenomas

% Uptake

Gender
 Area deprivation

FIT NEGATIVE POSITIVE

70%
 65%
 60%
 55%
 50%

Age group, gender, NHS Income, NHS Index Multiple Deprivation, NHS Value of Work...

Elderly people

Training, Quality Control, Info, Finance, Mailing, Package

FIT and NHS Bowel Cancer Screening in England

2014 FIT Pilot

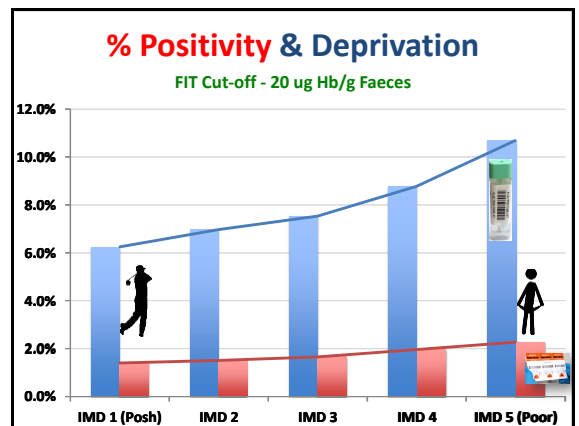
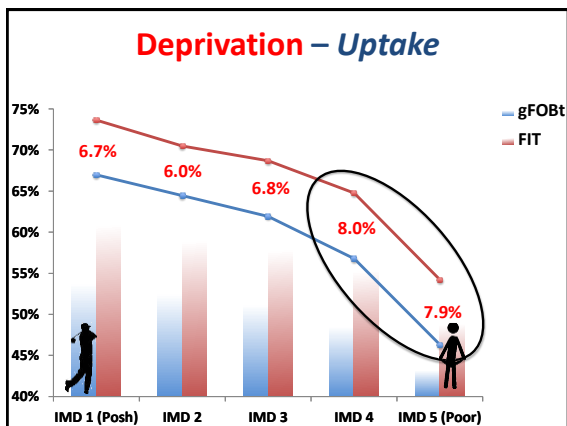
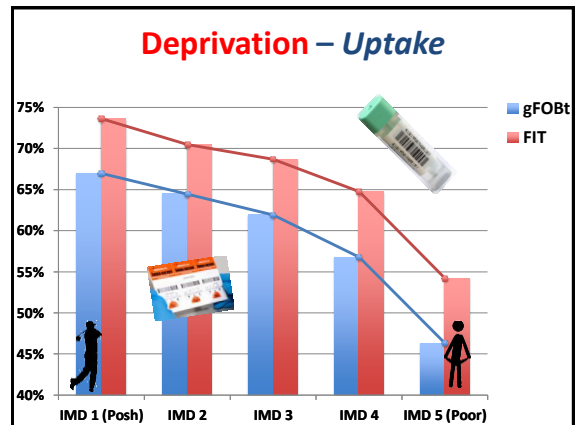
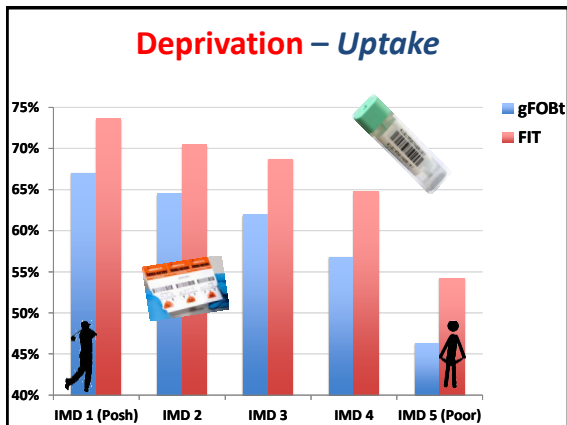
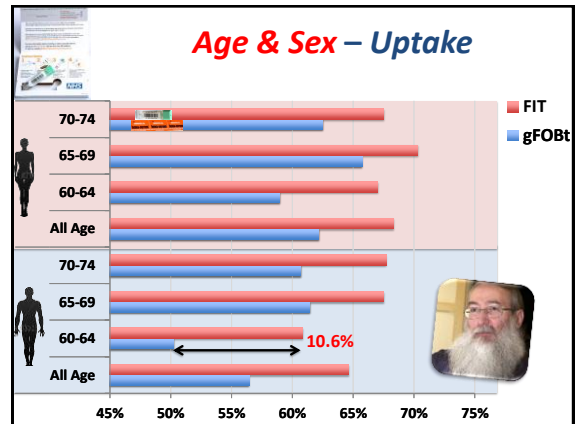
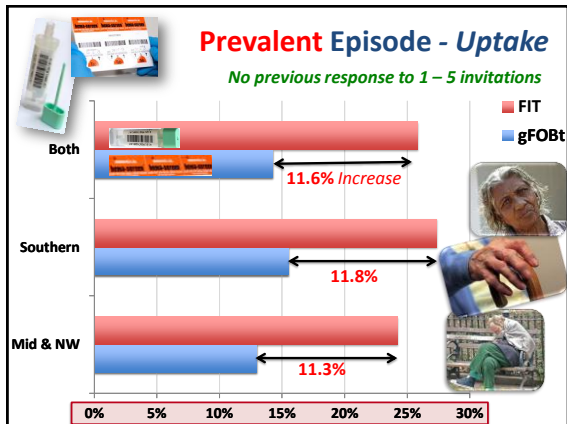
- Minimal impact upon BCSP
- Cut-off 20ug /g (?positivity >6.5%)
- FIT *in place* of guaiac FOBT
- 1 in 28 invitations will be FIT
- 40,000 FIT tests (single kit)
- Effectively randomised

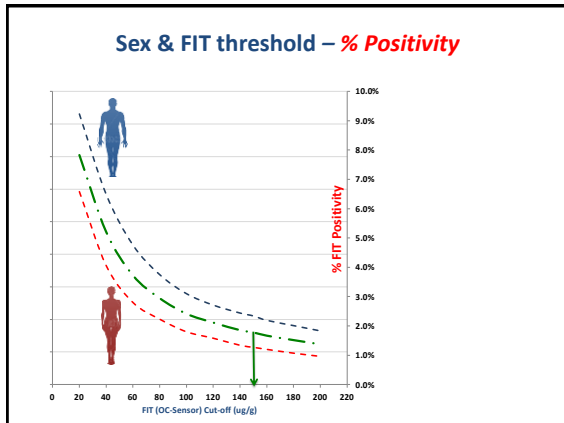
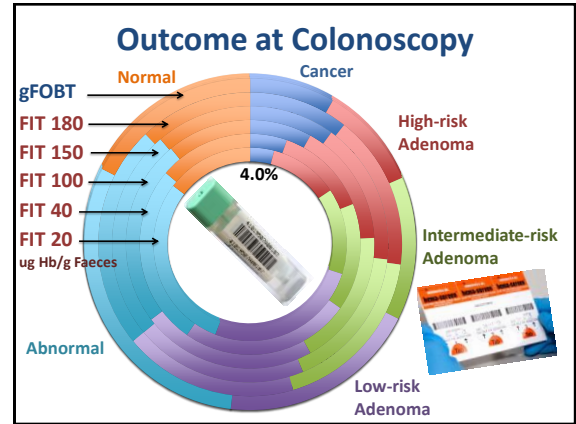
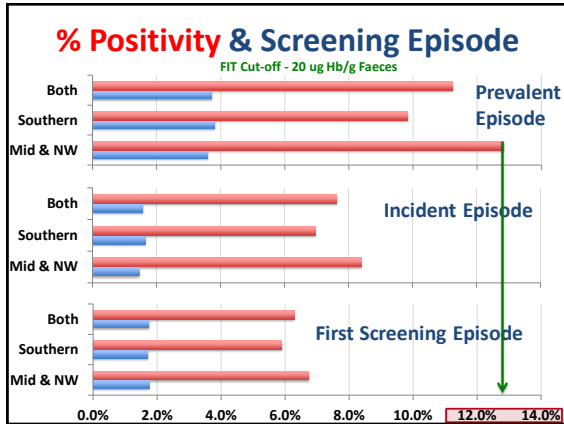
One in twenty eight

NHS

1
 2
 3
 4

Instructions





Personal Characteristics Influence Screening Outcomes

More positive tests in...

- Male
- Elderly
- Deprived
- Screening non-compliant

FIT cut-off at a high threshold disproportionately disadvantages...

- Female
- Elderly
- Screening non-compliant

FIT – An opportunity to personalise population-based screening?

Better Screening by....

...focusing on **populations**... and on **individuals**?

'Personalising population-based screening' – PPS

1. Intelligent use of FIT data
2. FIT & personal risk – *Multivariate risk scores*
3. ...ready to join the 'Personalised Medicine' band wagon?

FUTURE OF PERSONALIZED MEDICINE

TEST BEFORE YOU TREAT
 GET TO THE RIGHT DRUG THE FIRST TIME!
 Make MY screen the best for ME
 TAKE CARE OF YOUR OWN HEALTH!
 ALL OF THE DATA FROM THE INTERNET CAN BE STORED IN DNA IN A SMALL TEST TUBE
 GIANT LEAPS IN MEDICINE ARE JUST AROUND THE CORNER!
 BETTER EVIDENCE FOR DIAGNOSTICS AND THERAPIES
 TRANSLATE RESEARCH
 AGILE REGULATORY SYSTEM
 GENETIC COVERS, DECISION SUPPORT, GENETIC LIBRARY

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