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Maximising uptake to the target population: Lessons from the NHS Bowel Cancer Screening Programme in England

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## **Overview**

- · Bowel Cancer Screening uptake in England
- · Barriers relating to the current test
  - Disgust
  - Ambiguous results and re-testing
- Health literacy
- The role of FIT
- Revealed preferences
- Stated preferences
- Patient experience



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# **ASCEND Study - Background**

- Uptake overall: 54%
- Linear gradient across quintiles of deprivation: 35% to 61%



# **UCL** Beyond first screening invitations: Three

· Data from the Southern Bowel Cancer Screening Hub

rounds of screening

- · 62,099 records extracted of people who at the time of their appointment were aged 60-64 between September 2006 and February 2008
- Screening activity was recorded until December 2012

Lo, Halloran, Snowball, Seaman, Wardle, von Wagner, Gut, 2014

Uptake acro	ss three rou	unds of invit	<sup>4</sup> UCL ations
	Round 1	Round 2	Round 3
Uptake	57.4%	60.9%	66.2%
	At least once	Twice	Three times
Number of rounds completed per participant	70.1	60.7%	44.4%
			FULL EMPTY

				±UC
The imp	act of re	peated i	nvitatio	ons on uptake
	P1	P2	P3	Cumulative
Uptake	57.4%	23.1%	14.6%	70.1%
		Lo, Halloran, Sn	owball, Seaman,	Wardle, von Wagner, Gut, 201

















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## **Background: Systematic Review**

#### Vart et al. (2012):

- Systematic review and meta-analysis comparing participation rates for faecal immunochemical tests(FIT) and guaiac faecal occult blood tests (G-FOBt)
- Identified 7 RCTs comparing participation rates of these tests (Cole et al., 2003; Federici et al., 2005; Hoffman et al., 2010; Hughes et al., 2005; Levi et al., 2011; van Rossum et al., 2008)
- 6 RCTs found participation rates to be higher in FIT groups (Cole et al., 2003; Federici et al., 2005; Hoffman et al., 2010; Hughes et al., 2005; van Rossum et al., 2008)
- Results from meta-analysis show overall participation rates were significantly higher for individuals offered a FIT vs. G-FOBt

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# Possible determinants of higher FIT uptake

#### er faecal samples:

- Encourages participation (Cole et al., 2003; Federici et al., 2005) Makes FIT more convenient (Cole et al., 2003) Lessens aversion to handling faecal samples (Cole et al., 2003)

No dietary and medicinal restrictions:
 Makes FIT more acceptable (Cole et al., 2003; Federici et al., 2005; Hoffman et al., 2010; Hughes et al., 2005)

#### Simpler sample collection:

- Makes FIT assier to perform (Hoffman et al., 2010)
  Makes FIT more acceptable (Cole et al., 2003; Federici et al., 2005; Hoffman et al., 2010; Hughes et al., 2005)
- 2005)
  Taking samples from the toilet water and brush sampling makes FIT more convenient and means less manipulation of faecal samples is required (Cole et al., 2003)
  Makes FIT more 'user-triendly' and less messy (Hughes et al., 2005)

#### Limitation:

Other studies discussing determinants of participation interpreted reasons Conclusion as to why FIT participation rate was higher could not be drawn ons from previous literature

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# Key Point 3

- People who have done both tests clearly prefer completing the FIT test kit.
- Evidence from a systematic review of existing research suggests that immunochemical tests will substantially improve uptake.
- There is some potential that FIT may reduce inequalities.

bearing in mind that there are a number of mediators of socioeconomic inequalities many of which would not be affected by the choice of modality.

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