



Rijksinstituut voor Volksgezondheid
en Milieu
*Ministerie van Volksgezondheid,
Welzijn en Sport*

CRC screening in the Netherlands; from pilots to national programme

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Meeting WEO

CRC Screening Committee



Lead-up to the bowel cancer screening programme

2006: Start of pilot screening programmes

2009: Advisory report issued by the Health Council of the Netherlands

2011: Feasibility study conducted by RIVM

June 2011: Ministerial decision

Early 2013: Application and recommendation for permit under Population Screening Act

September 2013: Start of pilot

January 2014: National launch





CRC screening started end of January 2014

- FIT (FOB Gold, cut-off 15 $\mu\text{g/g}$) + colonoscopy
- Men and women 55–75 years old
- Bi-annually
- Phased introduction; when fully implemented: 2,2 million invitees per year
- Till 13 October: 473,435 invitees; 14,894 colonoscopies

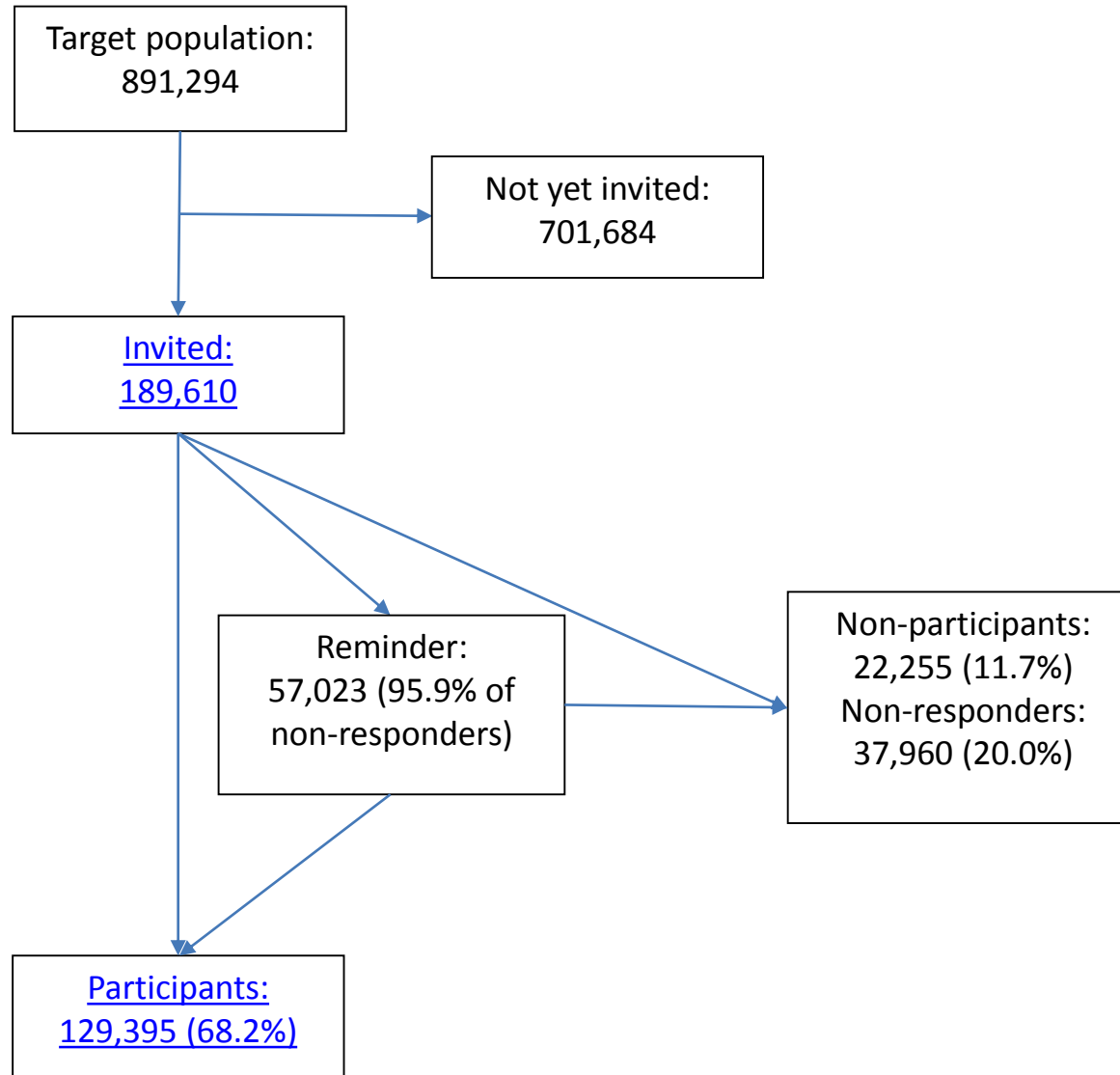


In July cut-off was increased

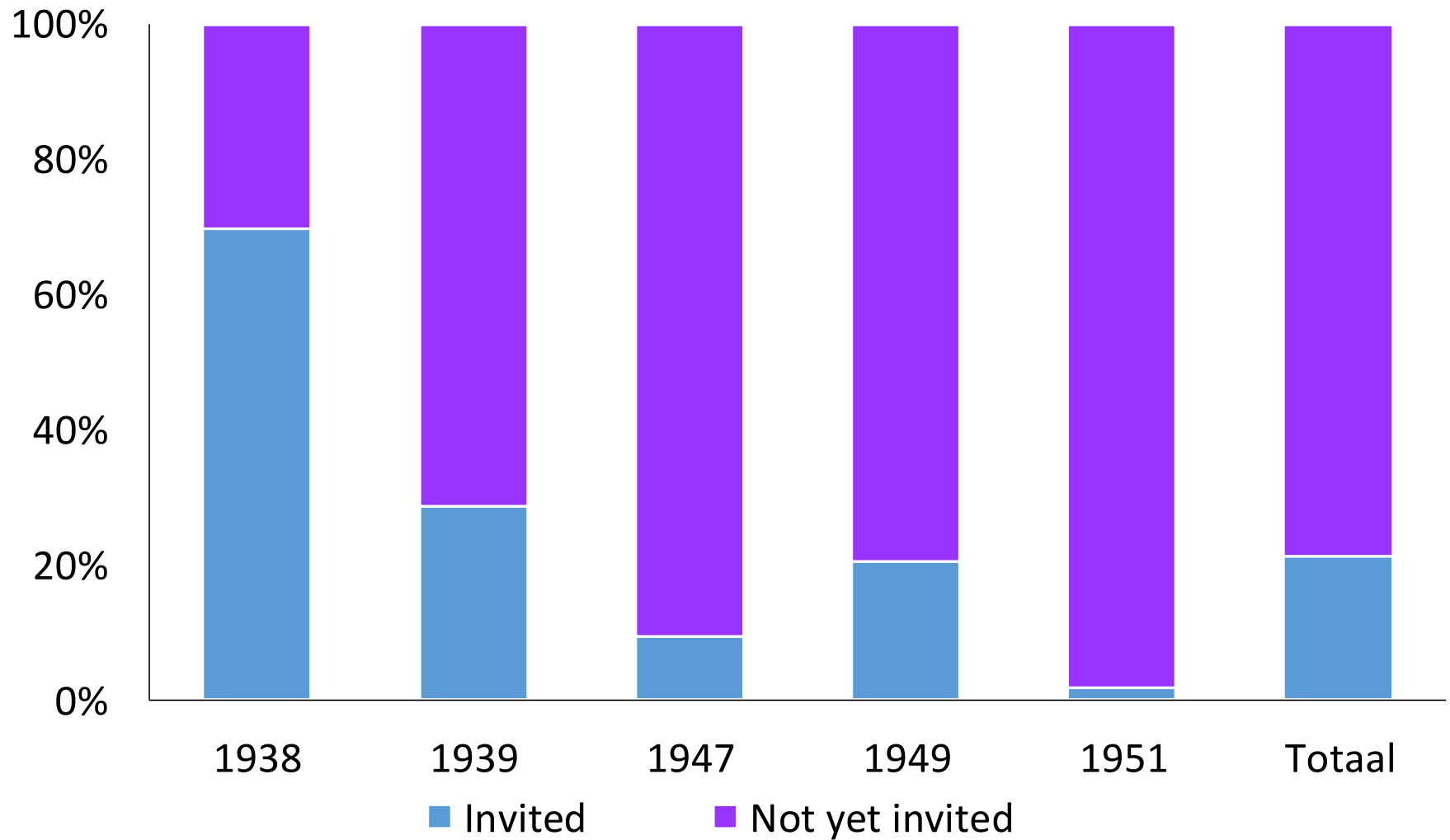
- FIT (FOB Gold) from 88 to 275 ng/ml
- Cut-off did not give the right harm-benefit ratio, 12% referral rate, too many false positives, too little colonoscopy capacity
- Rationale for decision explained this morning in FIT for screening session; See also http://www.rivm.nl/en/Topics/B/Bowel_cancer_screening_programme
- Next year comparative study FOB Gold and OC sensor

Now: results of first half year with cut-off 88 ng/ml by Erasmus Medical Centre + Antonie van Leeuwenhoek hospital, national evaluator

Invitation and participation

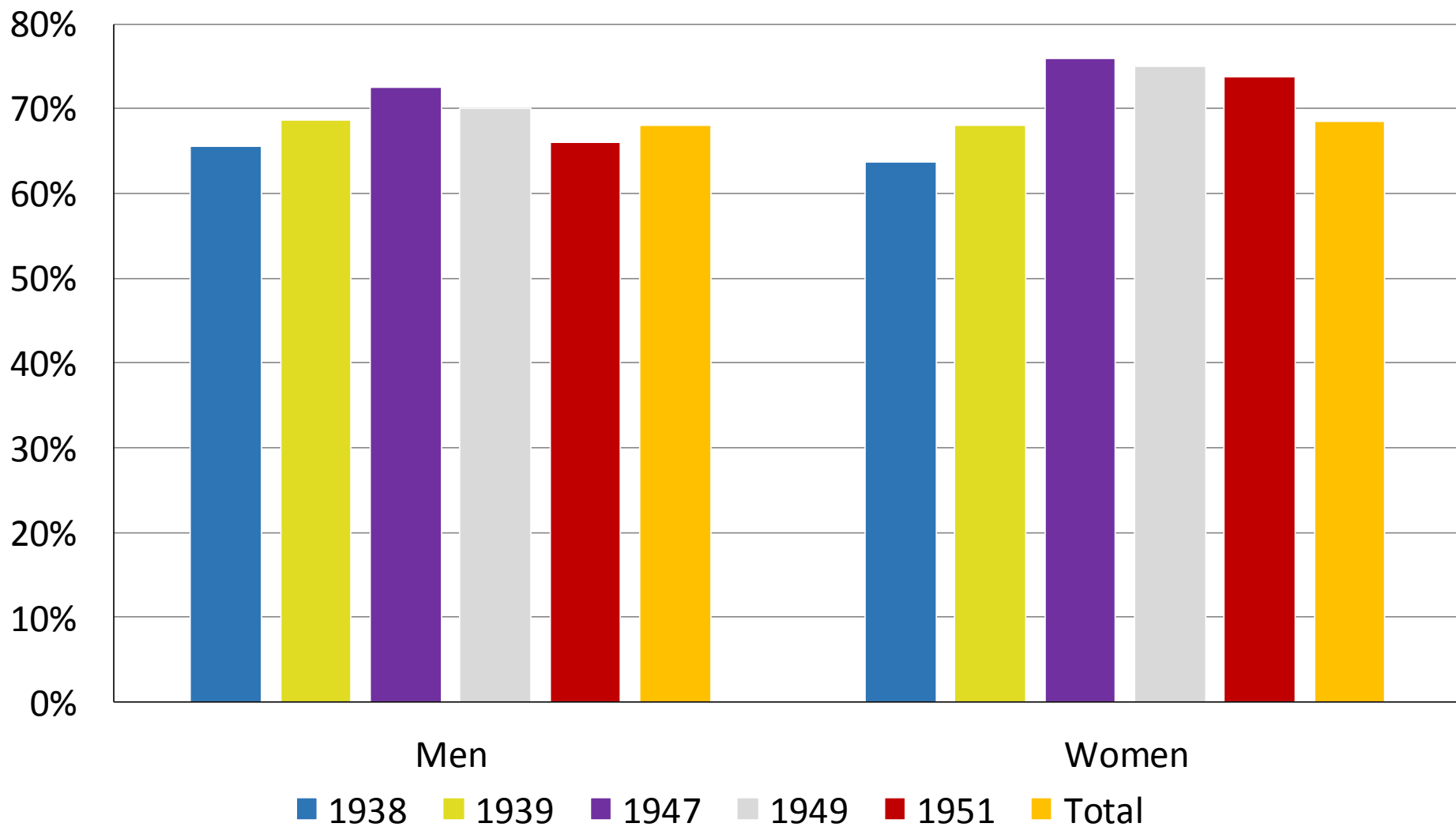


Invitations per birth cohort

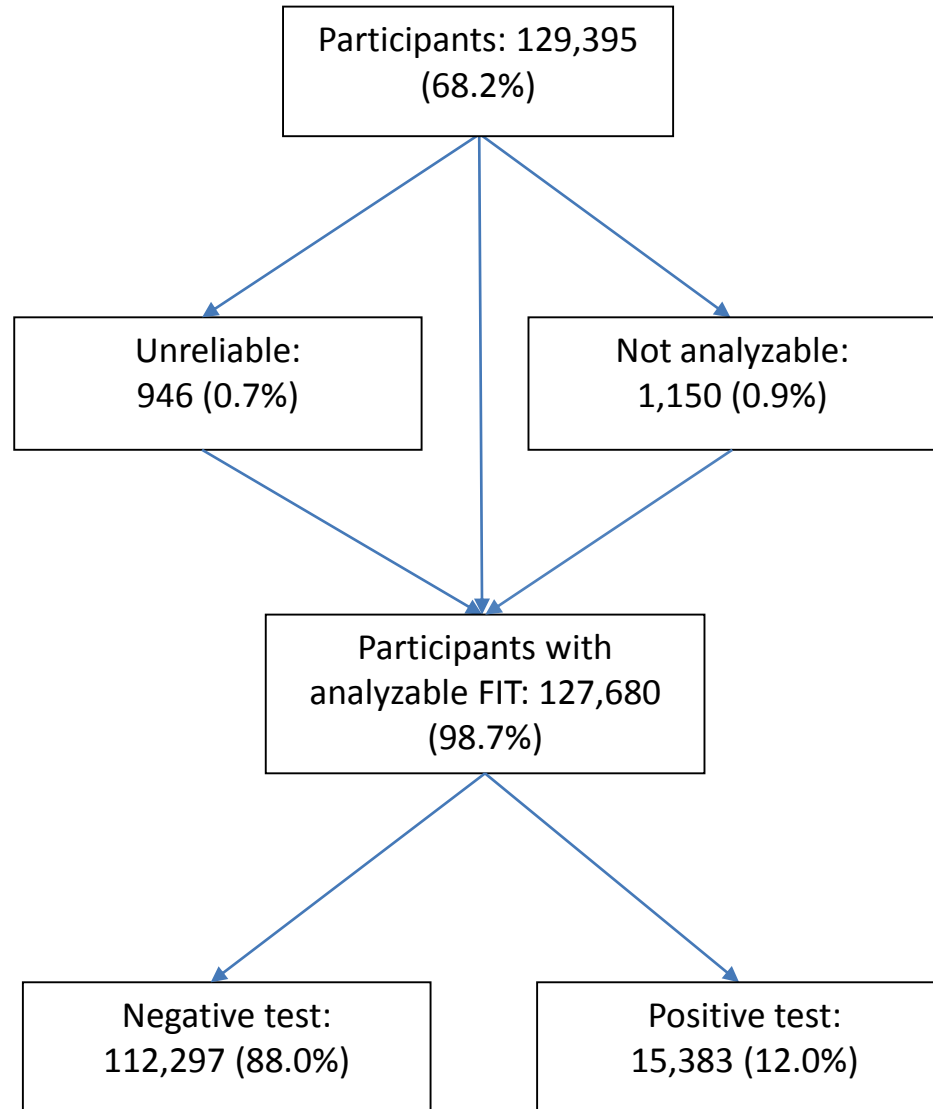


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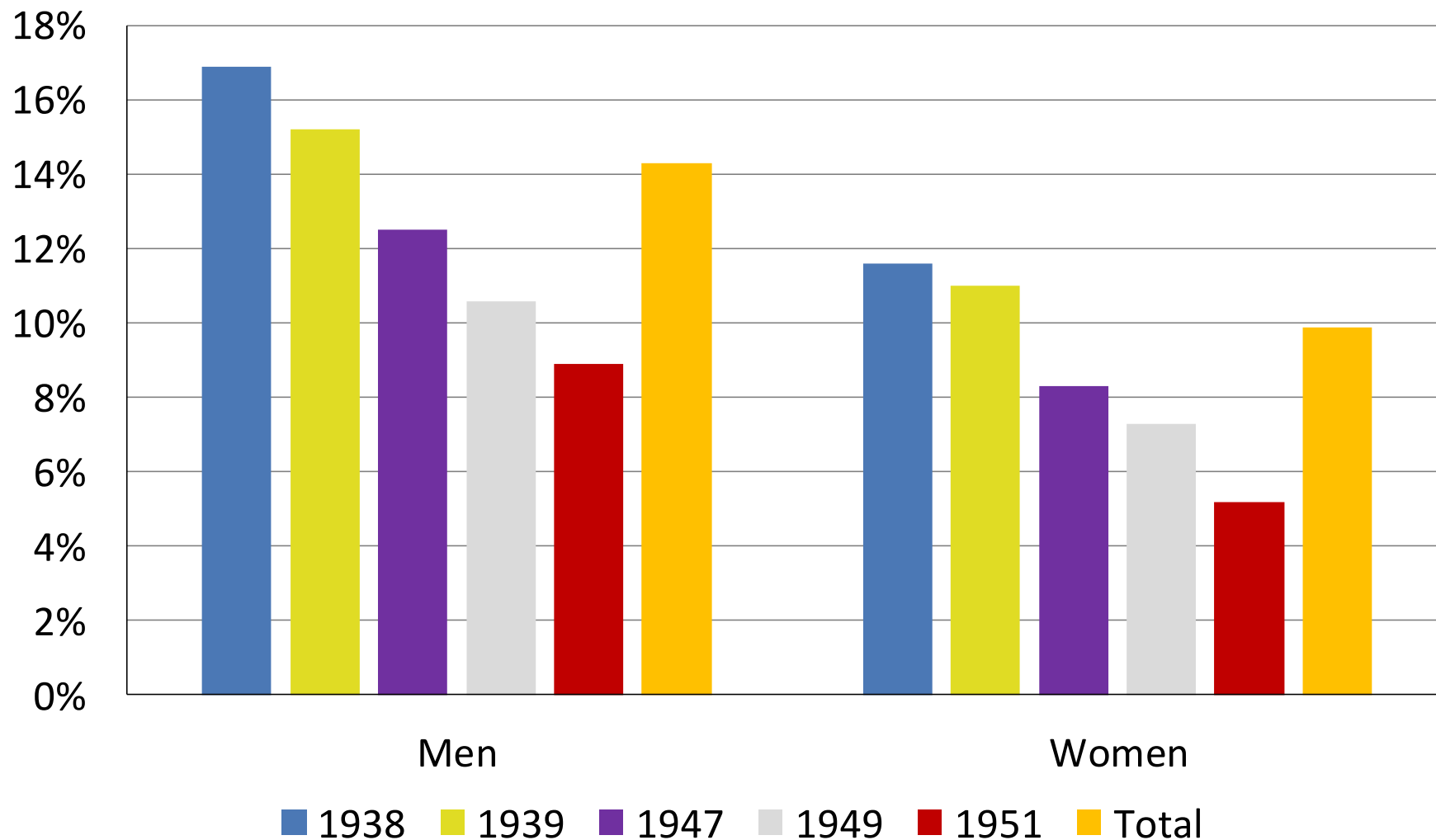
Participation: 68.2%



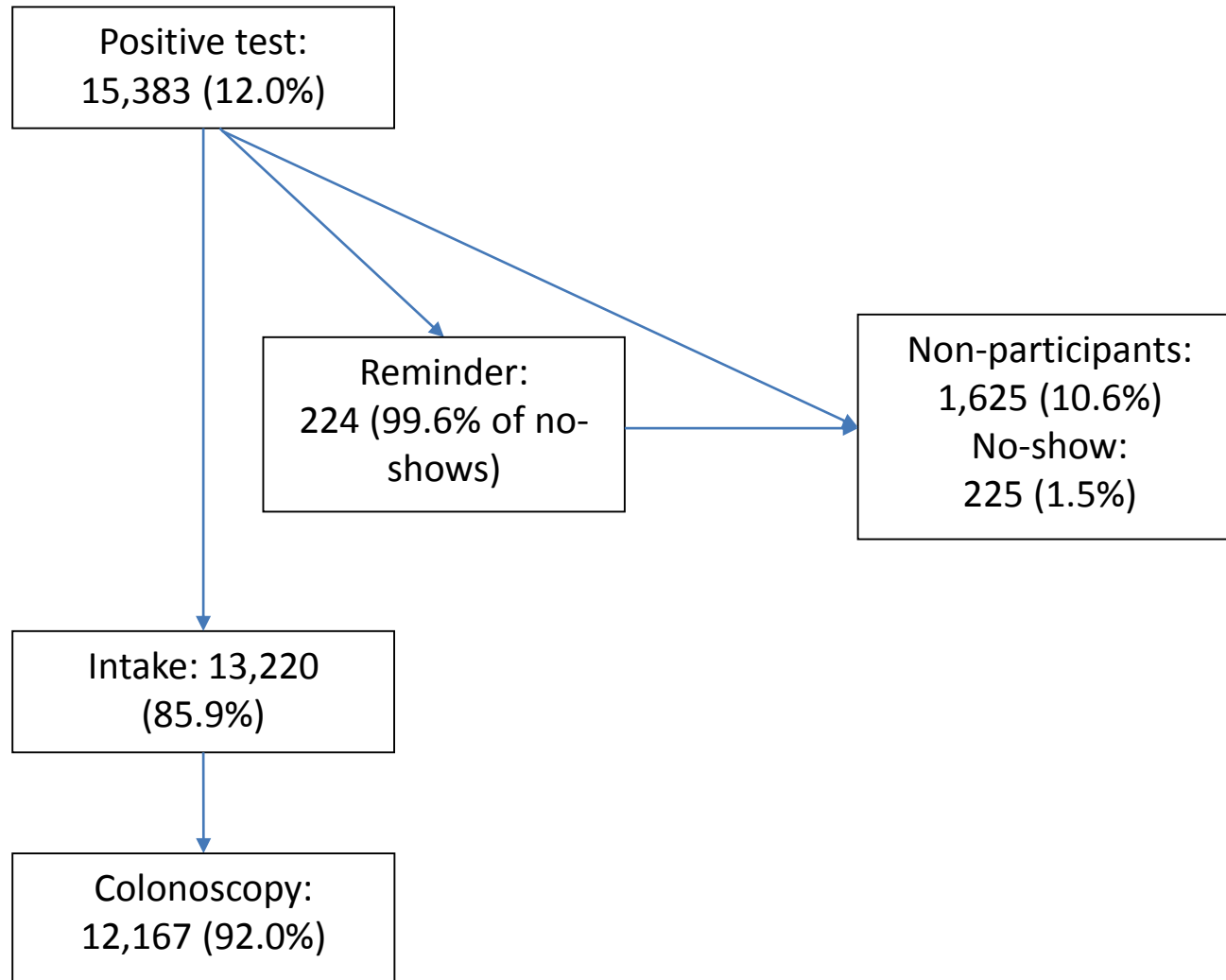
Screening



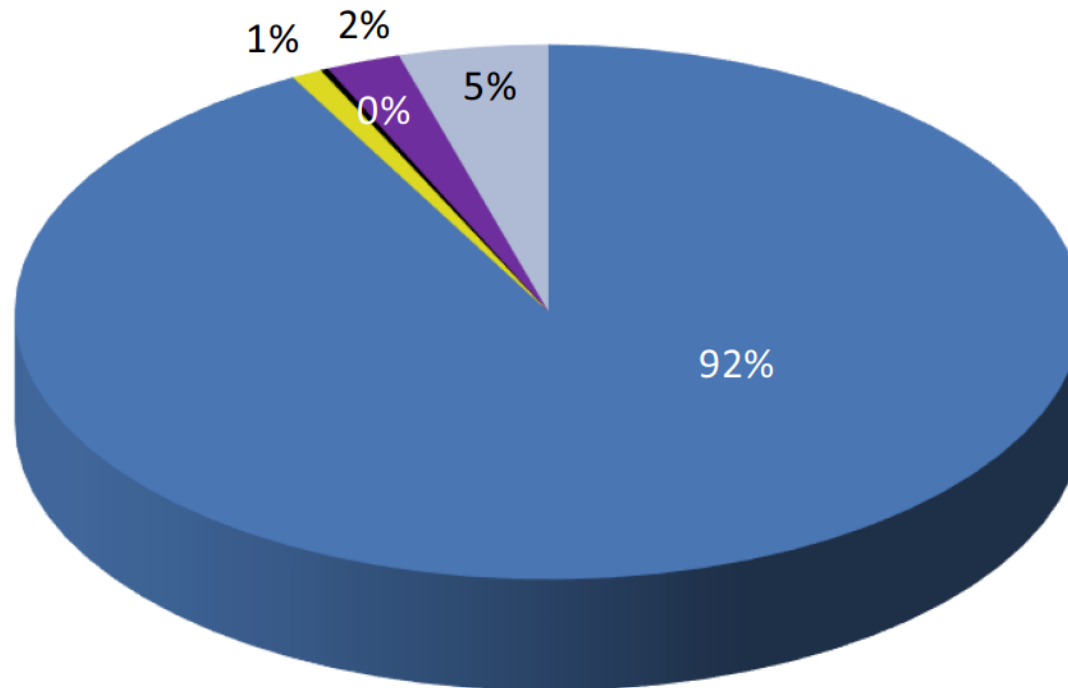
Positivity rate: 12.0%



Intake colonoscopy



Conclusions intake



■ Colonoscopy

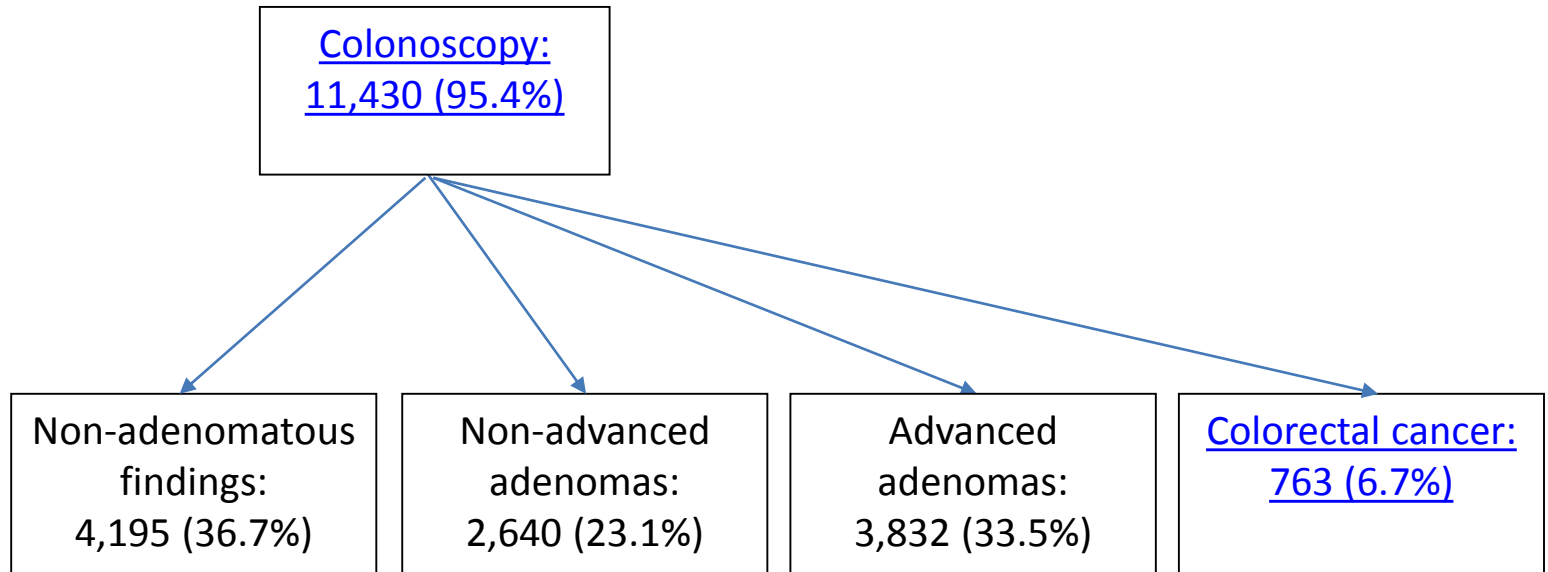
■ Different intake location

■ Exclusion

■ CT colonography

■ Colonoscopy delayed

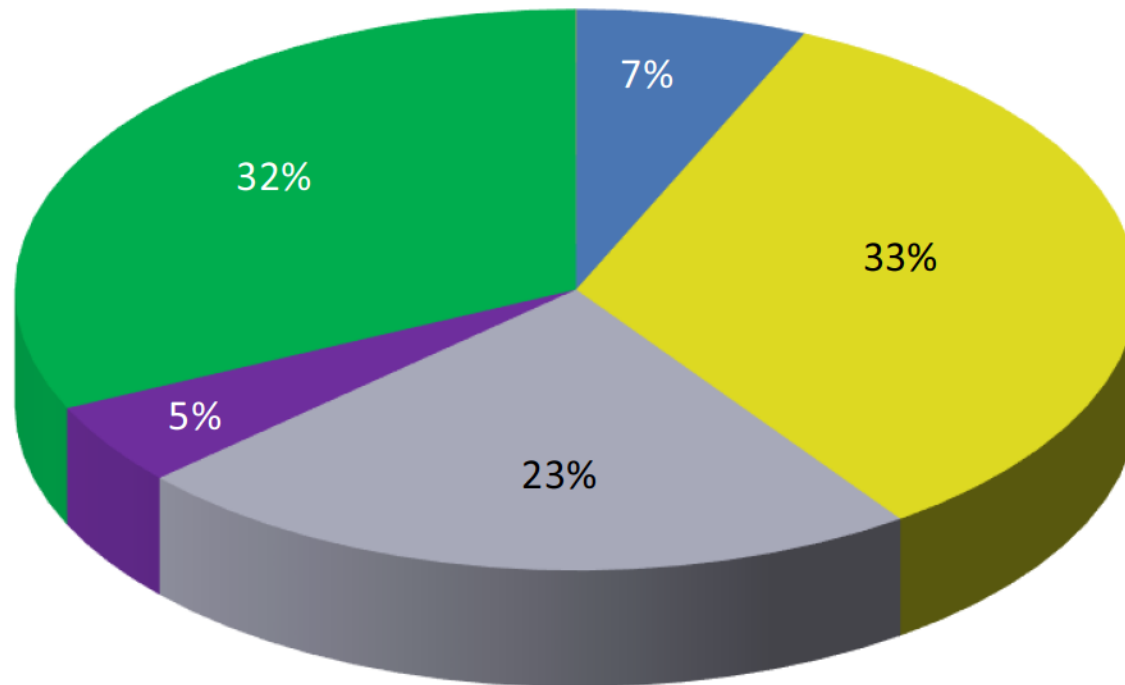
Colonoscopy



Colonoscopies per positive test result

- Of the 15.383 participants with a positive test result *currently* 11,430 (74.3%) received a colonoscopy

Yield of colonoscopy



■ Colorectal cancer

■ Adv adenomas

■ Non-adv adenomas

■ Serrated polyps

■ No findings

Positivity and detection rates

	Pilot studies	National program 88 ng/ml	National program 275 ng/ml
Test positivity	6.4%	12.0%	7.2%
Colonoscopy	85.7%	74.3%	
Detection rate* CRC	4.5 per 1,000	5.9 per 1,000	5.0 per 1,000
Detection rate* CRC+AA	28.3 per 1,000	36.2 per 1,000	25.4 per 1,000
PPV CRC	8.2%	6.7%	9.5%
PPV CRC+AA	51.6%	40.2%	48.1%
False-positive FIT[†]	48.4%	59.8%	51.9%
NNScope CRC	12.2	14.9	10.5
NNScope CRC+AA	1.8	2.5	2.1

PPV = Positive predictive value of a positive FIT

* Detection rate per 1,000 screened individuals

† False-positive FIT = percentage of positive FIT for which no advanced neoplasia are found during follow-up colonoscopy



Further information

http://www.rivm.nl/en/Topics/B/Bowel_cancer_screening_programme

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