




Participation. CRC detection. interval cancers and FIT results over three rounds of screening in the Basque Country


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THE BASQUE COUNTRY PROGRAMME

Coverage



Objective:
 To decrease CRC incidence and mortality by detection and treatment of premalignant and malignant lesions

THE BASQUE COUNTRY PROGRAMME

STRATEGY	MAIN RESULTS
<ul style="list-style-type: none"> • POPULATION BASED • 50-69 year-old (586,700 people) • FIT biennial. Cut-off 20µg Hb/g • OC-Sensor from 2010 • Colonoscopy under sedation as confirmatory test • Information system linked with medical database and cancer registries • Primary Care Involved • Centralized coordination 	TOTAL INVITED 958,450
	PARTICIPATION RATE 68.5%
	POSITIVE RATE 6.2%
	COLONOSCOPY UPTAKE 93.7%
	CCR DETECTION RATE 3.4%
	AA DETECTION RATE 23.3%
	AN DETECTION RATE 26.7%
	PPV CCR 5.4%
	PPV AA 37.5%
	PPV AN 42.9%

OBJECTIVES

- To know the main trends in participation and lesion detection rate, by round, sex and age group 2009-2014.
- To know the features of the screened and interval cancer registered by the Programme.

METHODS

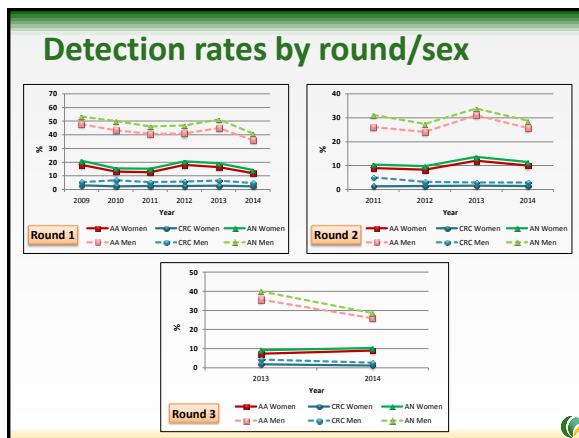
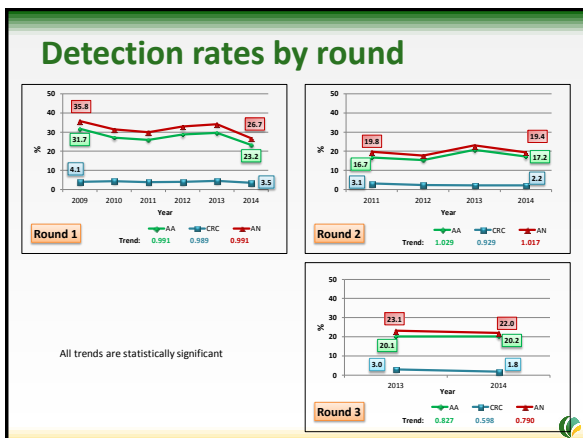
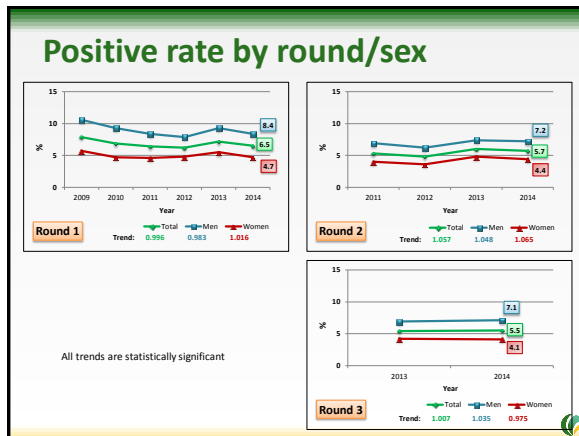
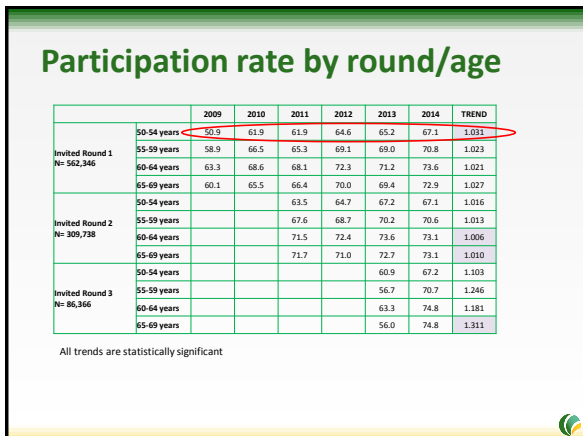
Participation rate by round/sex

Round 1

Round 2

Round 3

All trends are statistically significant



Participants by pattern of participation and lesion detected

Variables at the diagnostic round	First invitation (36.3)	Regular (53.2)	Irregular (10.5)
Women/Men (%)	53.6/46.4	55.1/44.9	50/50
50-54 years (%)	43.9	17.6	22.0
55-59 years (%)	21.5	28.9	31.1
60-64 years (%)	19.0	27.1	25.9
65-69 years (%)	15.5	26.4	21.1
Positive rate (%)	7.0	5.8	8.0
CRC detection rate (%)	4.1	2.2	4.0
AA detection rate (%)	27.3	17.5	29.5
AN detection rate (%)	31.5	19.7	33.5
LRA detection rate (%)	10.6	9.8	10.7

CRC in different participants

		First invitation (48.7)	Regular (37.7)	Irregular (13.6)
Sex	Women/Men (%)	34.1/65.9	35.4/64.0	33.5/66.5
	50-54 years (%)	20.6	9.4	11.4
	55-59 years (%)	21.7	21.7	27.8
	60-64 years (%)	25.2	30.1	23.9
	65-69 years (%)	32.5	38.2	36.9
Stage	Stage I-II	65.0	60.3	64.2
	Stage III-IV	26.5	29.2	23.6
	Location			
Location	Right colon	10.6	20.9	15.9
	Left colon	60.2	48.7	60.8
	Transverse colon	4.1	6.5	2.3
	Rectum	15.2	17.8	17.0
First Treatment	Surgery	52.3	66.7	62.4
	Radical endoscopy	38.4	19.0	24.8
	Chemotherapy/radiotherapy	9.3	14.3	12.7

Interval Cancer

FIT-NEGATIVE (122)	Sex		Age		Round		Location***			Stage	
	Women	Men	50-59 years	60-69 years	1	2*	Right	Left	Rectum	I-II	III-IV
	µHb/g faeces										
0.00-5.00 (96)	39.6% (38)	60.4% (58)	45.9% (44)	54.1% (52)	82.3% (79)	17.7% (17)	23.9% (23)	26.0% (25)	32.3% (31)	42.7% (41)	51.0% (49)
5.01-10.00 (26)	23.1% (6)	76.9% (20)	42.3% (11)	57.7% (15)	88.5% (23)	11.5% (3)	3.1% (8)	23.1% (6)	42.3% (11)	34.6% (9)	53.8% (14)
10.01-19.99 (37)	35.1% (13)	64.9% (24)	45.9% (17)	54.1% (20)	75.5% (28)	24.3% (9)	29.7% (11)	45.9% (17)	18.9% (7)	45.9% (17)	54.1% (20)
COLONOSCOPY** (19)	68.4% (13)	31.6% (6)	42.1% (8)	57.9% (11)	89.5% (17)	10.5% (2)	31.6% (6)	47.4% (9)	15.8% (3)	47.4% (9)	52.6% (10)

* PREVIOUS COLONOSCOPY:	
Normal: 10 (2 ⇒ Round 2)	19
LRA: 1	2
AA: 8	3
No participant 2 nd round	5

DIFERENT LOCATION	ADENOMA LOCATION	CRC LOCATION	SAME LOCATION	ADENOMA LOCATION	CRC LOCATION
LRA (1)	Sigmoid	Caecum	AA (3)	Sigmoid	Sigmoid
AA (1)	Ascending	Caecum	AA (1)	Rectum	Rectum
AA (1)	Transverse	Caecum	AA (1)	Ascending	Ascending
AA (1)	Rectum	Caecum			

Negative FIT - Interval Cancer: symptomatic for the diagnosis 78.4%
- Main symptoms: rectal hemorrhage (42.4%), abdominal pain (40.4%) and constipation (7.3%)

Post-colonoscopy Interval Cancer:
- Symptomatic for the diagnosis 50.0%
- Delay in follow-up colonoscopy

LESSONS LEARNT

- Participation rate trends increased significantly in all rounds by sex and age group.
- Positive rate trends decreased in successive rounds but not as much as we had expected.
- Advanced Neoplasia detection rate decreased by round, showing differences between men and women.
- Irregular and first participants showed similarities in positive rate and lesions detected.
- Post-FIT negative Interval Cancer were more often in men, the oldest group and detected in advanced stage.
- Post-colonoscopy Interval Cancer were more often in the oldest group of women, and 52.6% after a normal colonoscopy. After Adenoma resection, 44.4% were localized in caecum.