

Interactive Discussion: Future of Endoscopy for Colorectal Cancer Screening: Current Evidence for Endoscopy as Part of Colon Screening

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Table 5 PREVALENCE OF ADVANCED ADENOMAS AND CRC

(multivariable ORs, 95% CI)

55-59	DISTAL NEOPLASMS	
	OR*	95% CI
WOMEN (N =1544)	1	
MEN (N=1545)	2.09	1.39 – 3.12
55-59	ALL NEOPLASMS	
	OR*	95% CI
WOMEN (N =1544)	1	
MEN (N=1545)	2.45	1.67 – 3.60
60 – 64	DISTAL NEOPLASMS	
	OR*	95% CI
WOMEN (N =1239)	1	
MEN (N=1155)	1.69	1.08 – 2.65
60 – 64	ALL NEOPLASMS	
	OR*	95% CI
WOMEN (N =1239)	1	
MEN (N=1155)	1.65	1.10 – 2.48
ALL SUBJECTS	ALL NEOPLASMS	
	OR*	95% CI
55-59 (N =3089)	1	
60-64 (N =2394)	1.04	0.78 – 1.38
WOMEN (N =2783)	1	
MEN (N =2700)	2.04	1.55 – 2.70

* ORs adjusted for screening center and for all the other variables in the table

Table 2 Attendance by age, gender and screening arm in FOBT, FS and TC arms and in all study population (multivariable ORs, 95% CI)

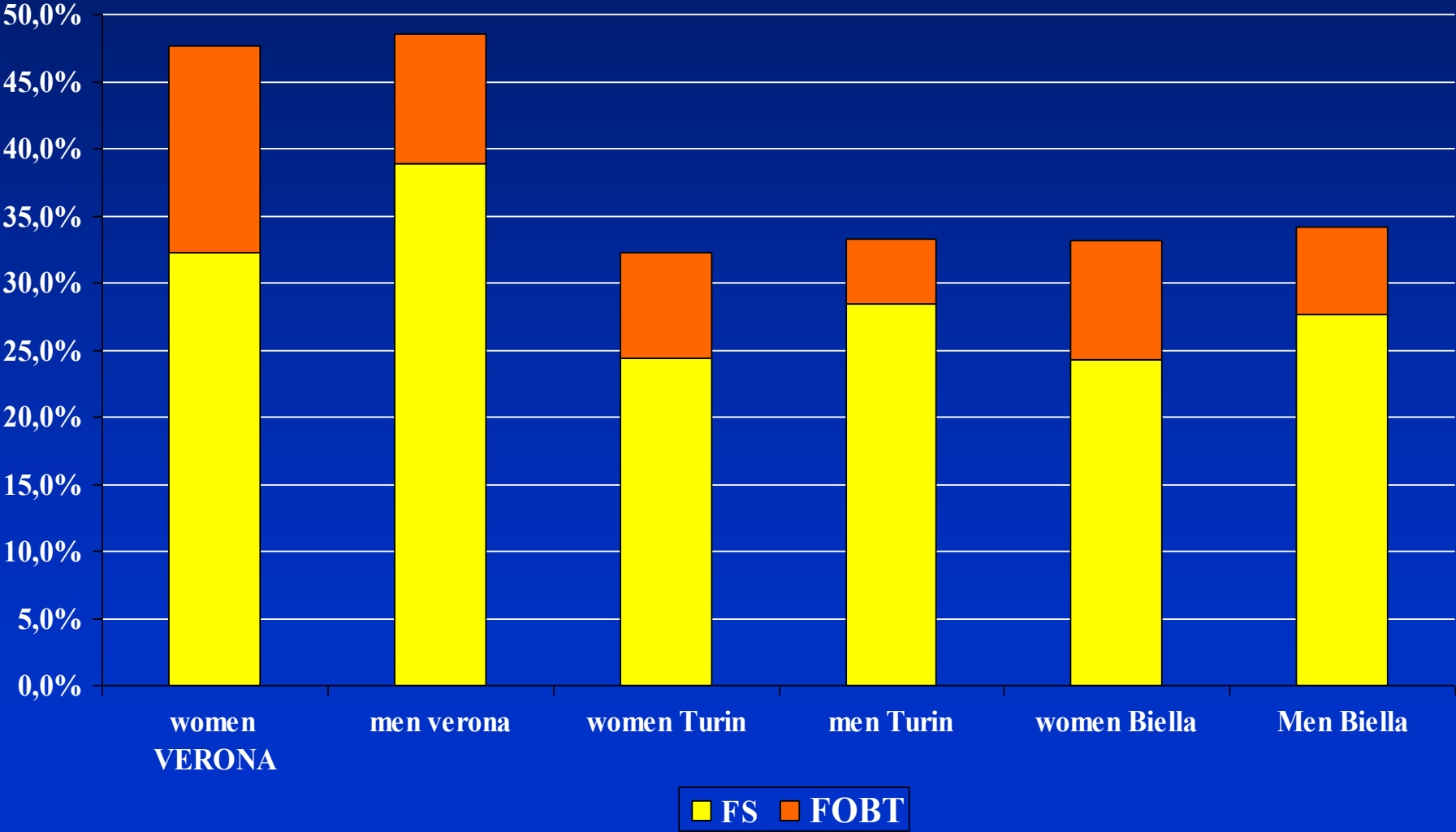
FOBT ARM	OR*	95% CI
55-59 (N = 3673)	1	
60-64 (N = 2402)	1.09	0.96 – 1.23
WOMEN (N = 3167)	1	
MEN (N = 2908)	0.88	0.78 – 0.98
FS ARM	OR*	95% CI
55-59 (N = 3563)	1	
60-64 (N = 2455)	0.90	0.80 – 1.01
WOMEN (N = 3155)	1	
MEN (N = 2863)	1.23	1.10 – 1.38
TC ARM	OR*	95% CI
55-59 (N = 3537)	1	
60-64 (N = 2484)	0.86	0.76 – 0.97
WOMEN (N = 3150)	1	
MEN (N = 2871)	1.14	1.02 – 1.29

* ORs adjusted for screening center and for all the other variables in the table

Probability of perforation	Probability of cancer after a negative TC*
TC 1/1,000	7/10,000 (2/2623) at 10 yrs
FS 1/10,000	3/1,000 (32/10154) at 5 yrs
FOBT 1,5/10,000 0.05*(3/1,000)	4/1,000 (85/22387) at 2 yrs

* Singh H et al. JAMA 2006

Coverage achievable offering FOBT to FS non attenders



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Table 4. Standardized Incidence Ratio for Individuals Who Did Not Have a Repeat Endoscopy for 2, 5, or 10 Years After an Initial Negative Colonoscopy Result

	Duration in Which No Endoscopy Was Performed, y		
	2	5	10
Cohort			
No. of individuals	22 387	10 154	2623
Person-years at risk	96 373.23	38 859.46	5484.47
No. of individuals with colorectal cancer			
Observed	85	32	2
Expected	156.96	66.77	10.05
SIR (95% CI)	0.54 (0.44-0.66)	0.50 (0.34-0.71)	0.20 (0.02-0.72)

Abbreviations: CI, confidence interval; SIR, standardized incidence ratio.

The Impact of Colon Cleanliness Assessment on Endoscopists' Recommendations for Follow-Up Colonoscopy

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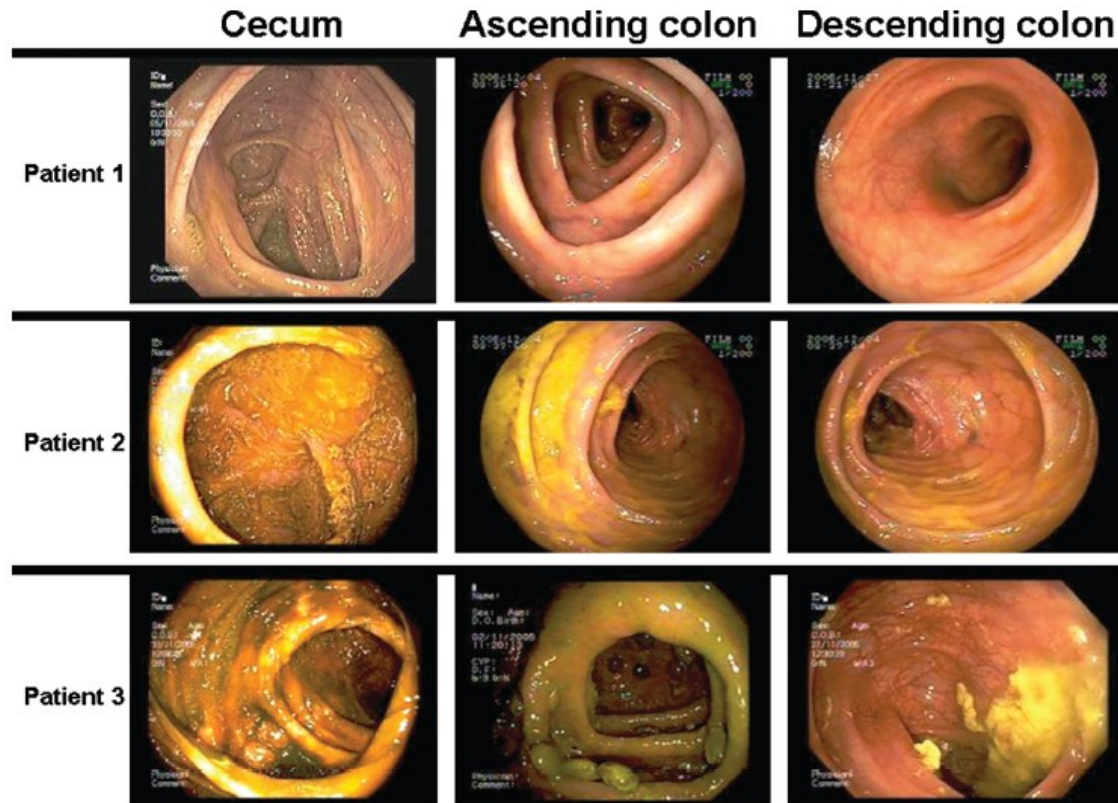
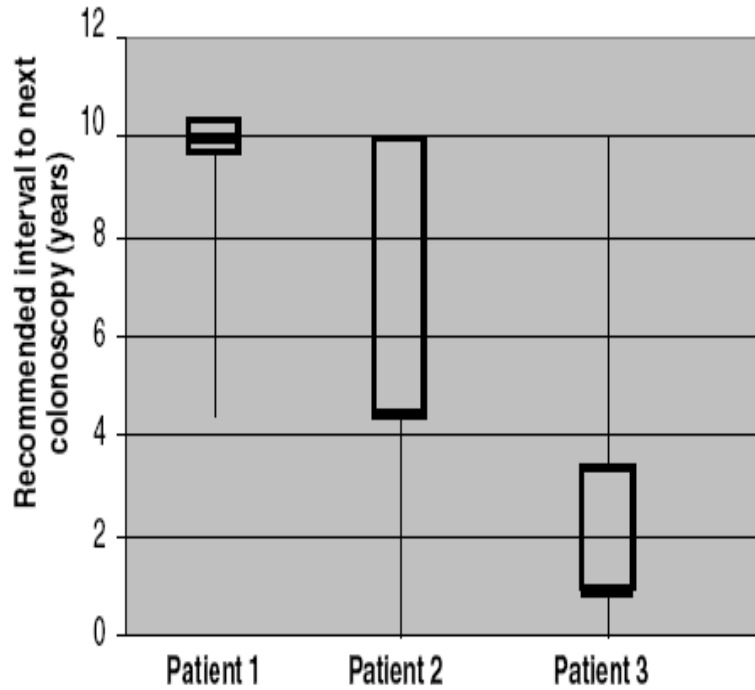


Figure 1. Colonic pictures presented to responding endoscopists. Photographs depict representative luminal views of colon cleanliness at the designated segments of the large bowel, for three hypothetical patients with differing preparation qualities (marked patient 1 to 3).

No polyps



Two polyps

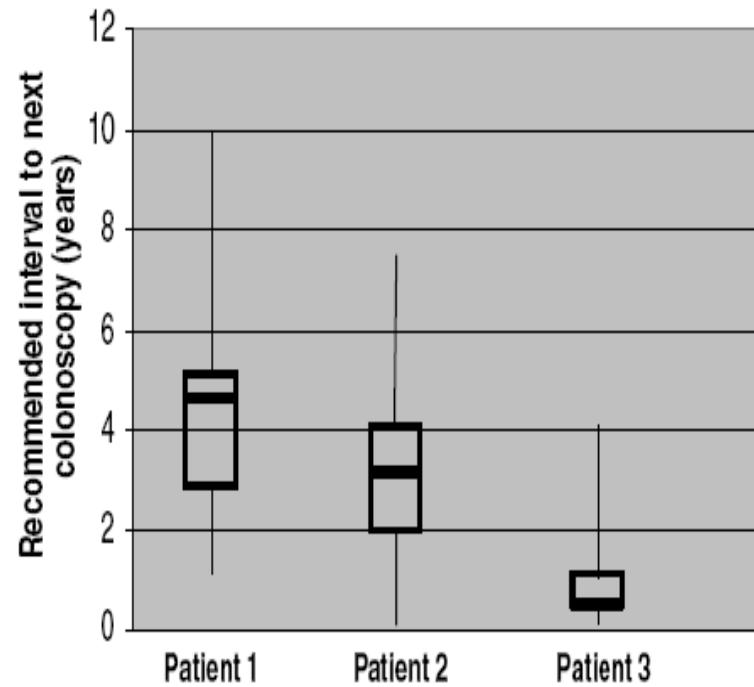
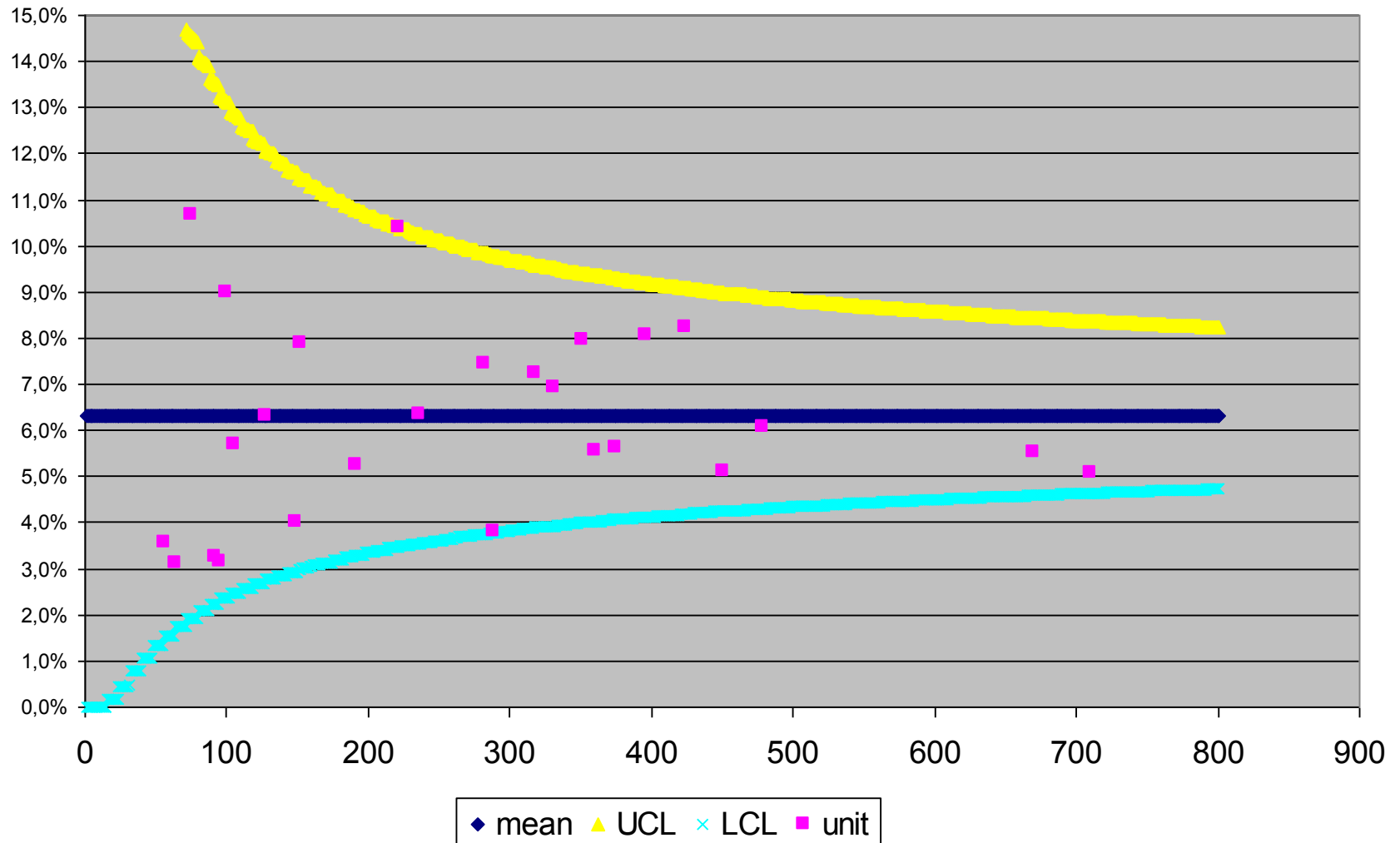


Figure 3. The trend for reduced interval of follow-up for the three preparations, for patients with or without polyps.

FS :DR advanced adenomas by endoscopist (men) Turin screening



PREVALENCE OF ADVANCED ADENOMAS AND CRC (multivariable ORs, 95%CI)

ALL SUBJECTS	ALL NEOPLASMS	
	OR*	95% CI
FS (N = 1922)	1	
FIT (N = 1965)	0.22	0.14-0.35
TC (N = 1596)	1.42	1.08
55-59 (N=3089)	1	
60-64 (N=2394)	1.04	0.78-1.38
WOMEN (N=2783)	1	
MEN (N=2700)	2.04	1.55-2.70

ORs adjusted for screening center and for all the other variables in the table

SCORE 3 trial

	TC		FS	
	n	%	n	%
Invited	6021		6018	
Attendees	1597	26.5	1944	32.3
AAD	100	6.3	88	4.6
Cancer	13	0.8	12	0.6
NNS* AAD	16		22	
NNI** AAD	60		68	
NNS* Cancer	123		162	
NNI** Cancer	463		501	

*NNS = Number Needed to Screen for detecting one lesion

**NNI = Number Needed to Invite for detecting one lesion

Adapted from:

Segnan N et al. *Gastroenterology* 2007;132(7):2304-12.

N. Segnan CPO 2008