

**Supplementary Table 1: Distribution of study patients by age at the end of follow-up and person-years of observation contributed**

Patient age at the end of follow-up (year)	No. of patients (%)	Mean age at end of follow-up	Person-Years of follow-up contributed (%)
40-44	130 (0.5%)	43.8	282.7 (0.1%)
45-49	648 (2.5%)	48.0	2621.5 (1.3%)
50-54	2489 (9.7%)	53.0	12404.3 (6.0%)
55-59	4331 (16.8%)	57.7	28020.5 (13.6%)
60-64	5101 (19.8%)	62.5	42397.2 (20.6%)
65-69	4840 (18.8%)	67.4	42392.3 (20.6%)
70-74	3344 (13.0%)	72.4	29450.8 (14.3%)
75-79	2257 (8.8%)	77.3	21438.4 (10.4%)
80+	2652 (10.3%)	85.1	26514.6 (12.9%)
<b>Total</b>	25792*	66.1	205,522.3

\* Total patients in this table is 70 less than the total cohort; they had CRC at screening, with date of cancer diagnosis in the cancer registry matching the colonoscopy date, censored at colonoscopy date due to the cancer diagnosis.

**Supplementary Table 2: Supplement to Table 4 - Exclusions applied by the current study and comparison studies of interval cancer**

	Current study	Polyp Prevention Trial <sup>4,5,10</sup>	National Polyp Study <sup>3,34</sup>	PLCO study <sup>6</sup>	KP 2014 <sup>16</sup>	KP 2019 <sup>41</sup>
<b>Total 1<sup>st</sup> colonoscopy patients</b>	26,011	37,175	9,112	15,395	273,742	Complex sample with mixed screening methods
<b>Exclusion criteria</b>	- Prior CRC diagnosis (58) - CRC at screening (159) - Prior bowel pathology or resection (50) - Carcinoid (41) - Incomplete colonoscopy, no make-up (445) - Large/vascular polyp referred for resection (250)	- Prior CRC diagnosis (2,544) - CRC at screening (1,029) - Prior bowel pathology (2,085) - Incomplete colonoscopy (2,160) - Large polyps referred /incomplete removal (3,718) - Other reasons (161)	- CRC at screening (549) - Prior bowel pathology (111) - Incomplete colonoscopy (208) - Large polyp referred (35) - Other reasons (38)	No exclusions	- CRC at screening (8,018)	- Previous FIT/FOBT - 184,327 - Patients with family history of CRC - Other exclusions as listed under Current study
<b>Other study-specific exclusions</b>	NA	Subject readiness - 23,399	-No polyps (4763) -Other (1244)	Subject readiness	41,882	-
<b>Total all exclusions</b>	1,003 (3.9%)	35,096 (94.4%)	7694 (84.4%)	NA	49,900 (18.2%)	520,499
<b>CRC-free at screening</b>	25,008 (7,530 with adenoma, 17,478 no-adenoma)	2,079 (all adenoma patients)	1,418 (all adenoma patients)	15,935 (7950 with adenoma, 7985 no-adenoma)	223,842 (adenoma-wise NA)	99,166 no-adenoma patients

\* For comparisons, all patients or adenoma patients of the study cohort were compared based on the comparison study patient type