Appendix A – Sensitivity analyses
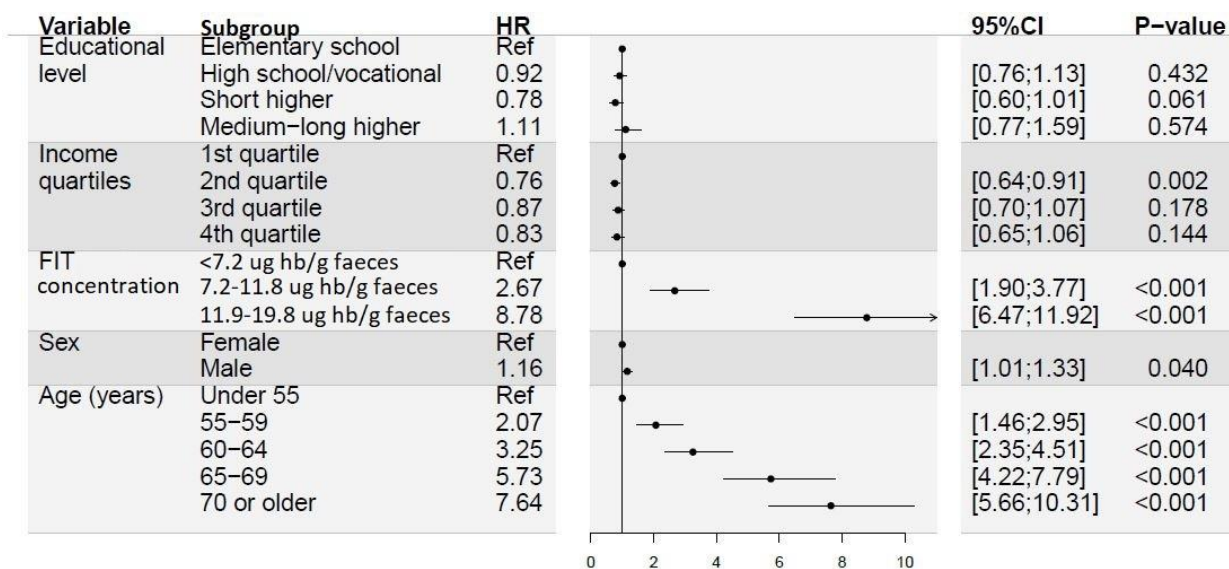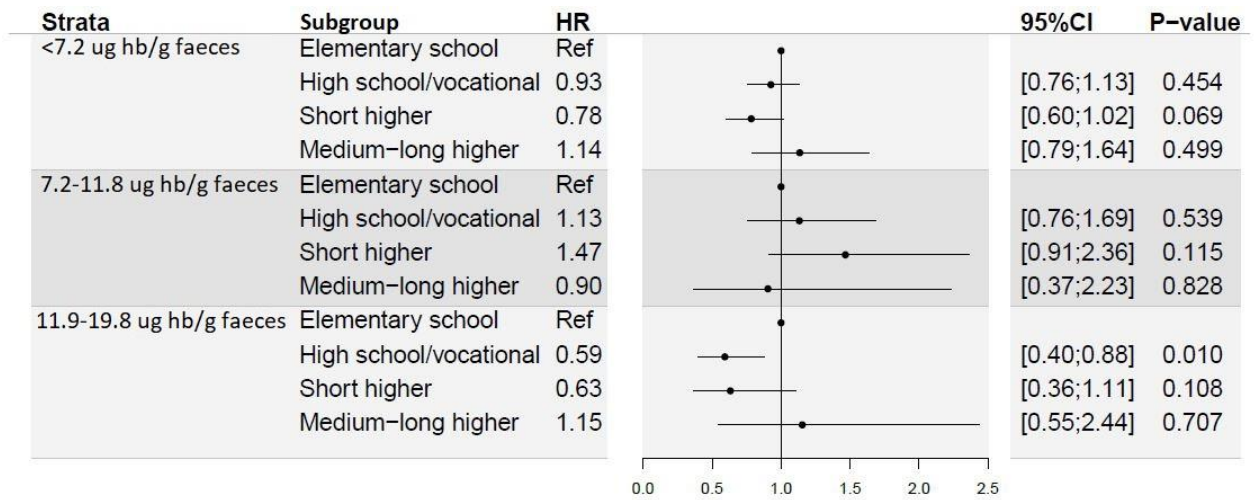
Fig. A1: Risk of interval colorectal cancer based on socioeconomic characteristics and covariates from adjusted cox proportional hazards regression model including interaction term for educational level and FIT concentration in the model
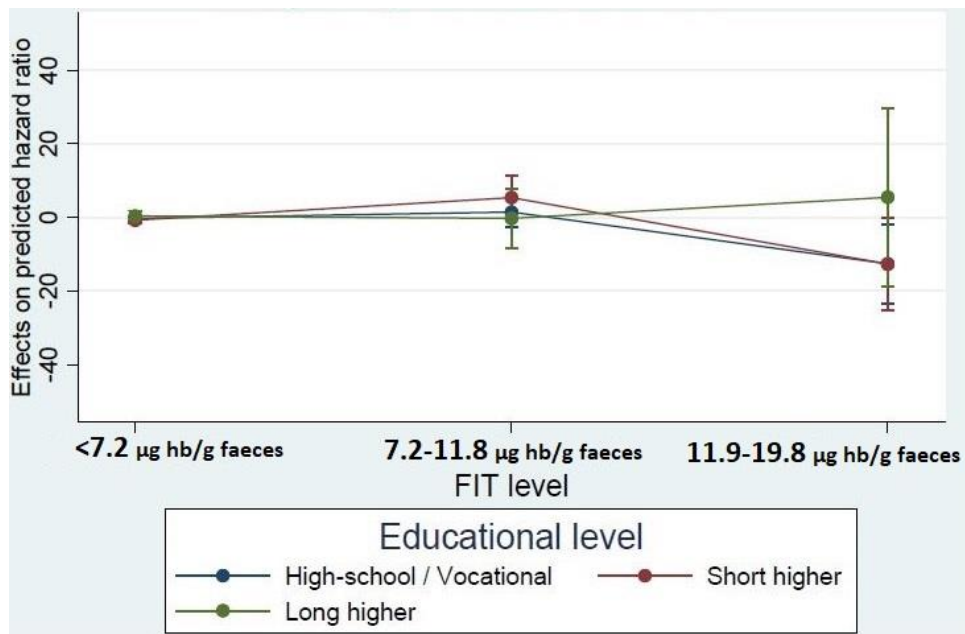

Variable	Subgroup	HR		95%CI	P-value
Educational level	Elementary school	Ref			
	High school/vocational	0.92		[0.76;1.13]	0.432
	Short higher	0.78		[0.60;1.01]	0.061
	Medium-long higher	1.11		[0.77;1.59]	0.574
Income quartiles	1st quartile	Ref			
	2nd quartile	0.76		[0.64;0.91]	0.002
	3rd quartile	0.87		[0.70;1.07]	0.178
	4th quartile	0.83		[0.65;1.06]	0.144
FIT concentration	<7.2 ug hb/g faeces	Ref			
	7.2-11.8 ug hb/g faeces	2.67		[1.90;3.77]	<0.001
	11.9-19.8 ug hb/g faeces	8.78		[6.47;11.92]	<0.001
Sex	Female	Ref			
	Male	1.16		[1.01;1.33]	0.040
Age (years)	Under 55	Ref			
	55-59	2.07		[1.46;2.95]	<0.001
	60-64	3.25		[2.35;4.51]	<0.001
	65-69	5.73		[4.22;7.79]	<0.001
	70 or older	7.64		[5.66;10.31]	<0.001

Abbreviations: FIT, Faecal immunochemical test; hb, haemoglobin

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Fig. A2: Risk of interval colorectal cancer based on educational level from adjusted cox proportional hazards regression model stratified by FIT concentration
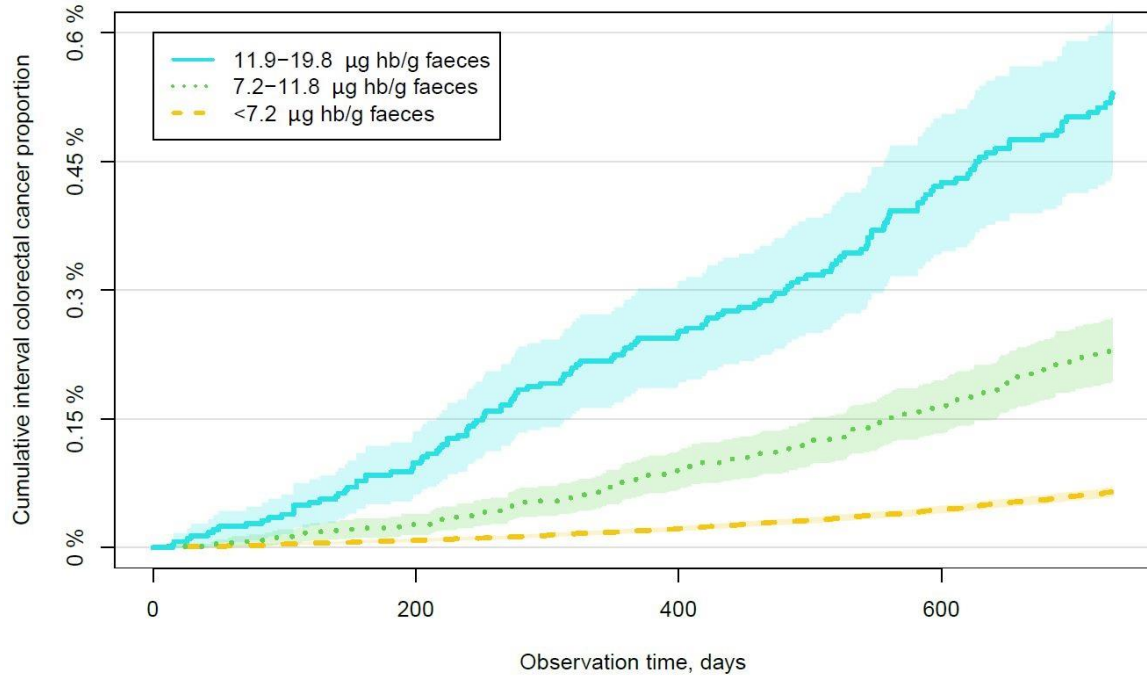

Strata	Subgroup	HR	95%CI	P–value
<7.2 ug hb/g faeces	Elementary school	Ref		
	High school/vocational	0.93	[0.76;1.13]	0.454
	Short higher	0.78	[0.60;1.02]	0.069
	Medium−long higher	1.14	[0.79;1.64]	0.499
7.2-11.8 ug hb/g faeces	Elementary school	Ref		
	High school/vocational	1.13	[0.76;1.69]	0.539
	Short higher	1.47	[0.91;2.36]	0.115
	Medium−long higher	0.90	[0.37;2.23]	0.828
11.9-19.8 ug hb/g faeces	Elementary school	Ref		
	High school/vocational	0.59	[0.40;0.88]	0.010
	Short higher	0.63	[0.36;1.11]	0.108
	Medium−long higher	1.15	[0.55;2.44]	0.707

Abbreviations: FIT, Faecal immunochemical test; hb, haemoglobin

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Fig. A3: Average marginal effects including 95% confidence intervals for the effect of educational levels on predicted hazard ratios for FIT concentrations with elementary school as reference
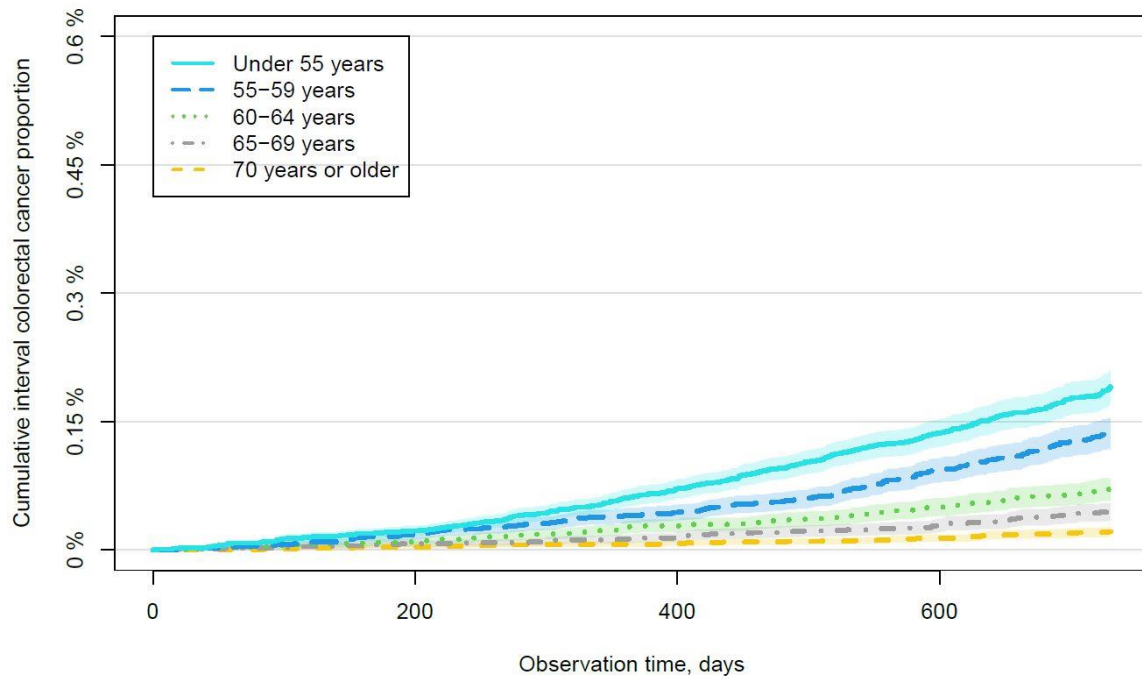

Abbreviations: FIT, Faecal immunochemical test; hb, haemoglobin

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Fig. A4: Cumulative incidence proportion curves of interval colorectal cancer stratified by faecal haemoglobin concentration.

Abbreviations: FIT, Faecal immunochemical test.

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Fig. A5: Cumulative incidence proportion curves of interval colorectal cancer stratified by age group.

Abbreviations: FIT, Faecal immunochemical test.

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