

S8 Table. Incidence and risk of early-onset colorectal cancer according to TG change status among participants aged 20-49 years (excluding participants prescribed on anti-dyslipidemia medications) by anatomic sites, if incidence age > 50 then censored

Cancer site	TG change	No.	Event	PY	IR	Model1	Model2	Model3	Model4
Colorectal	Group 1	2,014,206	4,497	12,397,750	0.363	1 (reference)	1 (reference)	1 (reference)	1 (reference)
	Group 2	363,574	766	2,216,237	0.346	0.953 (0.883-1.029)	1.028 (0.951-1.112)	1.023 (0.946-1.107)	1.005 (0.928,1.088)
	Group 3	309,817	668	1,853,347	0.36	0.995 (0.917-1.079)	1.015 (0.934-1.103)	1.008 (0.928-1.096)	0.995 (0.915-1.081)
	Group 4	522,375	1,240	3,127,812	0.396	1.094 (1.027-1.165) ^{a)}	1.143 (1.068-1.223) ^{a)}	1.128 (1.054-1.208) ^{a)}	1.094 (1.019-1.174) ^{a)}
Colon	Group 1	2,014,206	3,407	12,397,750	0.275	1 (reference)	1 (reference)	1 (reference)	1 (reference)
	Group 2	363,574	531	2,216,237	0.24	0.872 (0.796,0.956)	1.020 (0.929-1.120)	1.017 (0.926-1.117)	0.997 (0.907-1.096)
	Group 3	309,817	428	1,853,347	0.231	0.841 (0.761-0.930)	0.930 (0.839-1.030)	0.924 (0.834-1.024)	0.911 (0.821-1.009)
	Group 4	522,375	810	3,127,812	0.259	0.943 (0.874-1.019)	1.113 (1.025-1.209) ^{a)}	1.101 (1.013-1.196) ^{a)}	1.064 (0.977-1.160)
Rectum	Group 1	2,014,206	1,090	12,397,750	0.088	1 (reference)	1 (reference)	1 (reference)	1 (reference)
	Group 2	363,574	235	2,216,237	0.106	1.206 (1.048-1.389) ^{a)}	1.053 (0.912-1.215)	1.044 (0.904-1.206)	1.032 (0.892-1.193)
	Group 3	309,817	240	1,853,347	0.13	1.474 (1.282-1.695) ^{a)}	1.225 (1.062-1.412) ^{a)}	1.214 (1.053-1.400) ^{a)}	1.203 (1.042-1.389) ^{a)}
	Group 4	522,375	430	3,127,812	0.137	1.565 (1.400-1.750) ^{a)}	1.220 (1.084-1.373) ^{a)}	1.200 (1.065-1.351) ^{a)}	1.172 (1.036-1.327) ^{a)}
Proximal colon	Group 1	2,014,206	306	12,397,750	0.025	1 (reference)	1 (reference)	1 (reference)	1 (reference)
	Group 2	363,574	53	2,216,237	0.024	0.969 (0.724-1.297)	0.891 (0.662-1.199)	0.877 (0.652-1.181)	0.840 (0.623-1.134)
	Group 3	309,817	58	1,853,347	0.031	1.270 (0.959-1.681)	1.090 (0.819-1.451)	1.075 (0.807-1.432)	1.042 (0.781-1.390)
	Group 4	522,375	108	3,127,812	0.035	1.402 (1.126-1.745) ^{a)}	1.147 (0.908-1.447)	1.113 (0.880-1.407)	1.039 (0.814-1.326)
Distal Colon	Group 1	2,014,206	710	12,397,750	0.057	1 (reference)	1 (reference)	1 (reference)	1 (reference)
	Group 2	363,574	145	2,216,237	0.065	1.143 (0.956-1.366)	1.151 (0.959-1.381)	1.141 (0.950-1.371)	1.105 (0.918-1.330)
	Group 3	309,817	90	1,853,347	0.049	0.849 (0.682-1.057)	0.798 (0.639-0.998)	0.792 (0.634-0.990)	0.773 (0.618-0.967)
	Group 4	522,375	220	3,127,812	0.07	1.230 (1.057-1.431) ^{a)}	1.145 (0.974-1.346)	1.128 (0.958-1.327)	1.070 (0.903-1.267)
Unspecified	Group 1	2,014,206	2,377	12,397,750	0.192	1 (reference)	1 (reference)	1 (reference)	1 (reference)
	Group 2	363,574	330	2,216,237	0.149	0.777 (0.692-0.872)	0.993 (0.883-1.117)	0.993 (0.883-1.118)	0.980 (0.870-1.104)

Group 3	309,817	277	1,853,347	0.149	0.781 (0.689-0.884)	0.947 (0.834-1.074)	0.943 (0.830-1.070)	0.933 (0.822-1.060)
Group 4	522375	478	3,127,812	0.153	0.798 (0.723-0.880)	1.088 (0.979-1.210)	1.082 (0.972-1.204)	1.057 (0.947-1.181)

Model 1 was unadjusted. Model 2 was adjusted for age. Model 3 was adjusted for age, smoking status, alcohol consumption, regular exercise, and low-income status. Model 4 was adjusted for age, smoking status, alcohol consumption, regular exercise, low-income status, obesity, diabetes mellitus, and hypertension. Analyses were done using the variables measured in 2011. IR, incidence rate, per 1,000 person-years; PY, person-years; TG, triglyceride. ^{a)}Indicates statistical significance.