

Supplementary tables:

Supplementary Table 1. Age-specific incidence rate and rate ratio of stomach and colorectal cancer in population with and without family history of concordant cancer

Supplementary Table 2. Age-specific incidence rate and rate ratio of pancreas and lung cancer in population with and without family history of concordant cancer

Supplementary Table. Age-specific incidence rate and rate ratio of female breast and endometrium cancer in population with and without family history of concordant cancer

Supplementary Table. Age-specific incidence rate and rate ratio of prostate and kidney (Renal parenchyma) cancer in population with and without family history of concordant cancer

Supplementary Table. Age-specific incidence rate and rate ratio of bladder (Urinary bladder) cancer and melanoma in population with and without family history of concordant cancer

Supplementary Table 1. Age-specific incidence rate and rate ratio of stomach and colorectal cancer in population with and without family history of concordant cancer

Age at diagnosis (years)	Stomach					Colorectum				
	Incidence rate per 100 000 person years		Rate ratio (Familial/Non-familial)			Incidence rate per 100 000 person years		Rate ratio (Familial/Non-familial)		
	Familial	Non-familial	RR	95% CI		Familial	Non-familial	RR	95% CI	
20-24	0.4	0.1	4.2	1.0	17.4	1.4	1.2	1.2	0.8	1.7
25-29	1.2	0.2	5.2	2.2	12.0	2.9	1.8	1.6	1.2	2.1
30-34	0.4	0.4	0.9	0.2	3.8	5.2	2.5	2.1	1.7	2.6
35-39	1.7	0.8	2.1	1.0	4.3	9.2	4.4	2.1	1.8	2.5
40-44	3.2	1.6	2.0	1.2	3.3	19.1	8.3	2.3	2.0	2.6
45-49	7.7	3.0	2.5	1.8	3.6	29.5	14.8	2.0	1.8	2.2
50-54	10.0	5.1	2.0	1.4	2.7	55.6	28.4	2.0	1.8	2.1
55-59	17.1	9.0	1.9	1.5	2.4	91.8	51.4	1.8	1.7	1.9
60-64	26.2	12.7	2.1	1.6	2.6	146.9	87.9	1.7	1.6	1.8
65-69	35.7	18.3	1.9	1.6	2.4	213.7	134.5	1.6	1.5	1.7
70-74	31.6	24.1	1.3	1.0	1.8	315.9	192.1	1.6	1.5	1.8
75-79	48.3	26.8	1.8	1.2	2.6	434.8	268.2	1.6	1.5	1.8
80-84	44.7	33.6	1.3	0.6	3.0	427.9	338.0	1.3	1.1	1.5

RR: Rate ratio; CI: confidence interval.

Supplementary Table 2. Age-specific incidence rate and rate ratio of pancreas and lung cancer in population with and without family history of concordant cancer

Age at diagnosis (years)	Pancreas						Lung					
	Incidence rate per 100 000 person years			Rate ratio (Familial/Non-familial)			Incidence rate per 100 000 person years		Rate ratio (Familial/Non-familial)			
	Familial	Non-familial		RR	95% CI		Familial	Non-familial		RR	95% CI	
20-24	0.2	0.1	4.5	0.6	34.1		0.2	0.2	1.1	0.4	3.7	
25-29	0.7	0.1	9.2	2.7	30.8		0.8	0.4	2.1	1.1	4.0	
30-34	1.0	0.2	6.1	2.2	16.9		0.7	0.6	1.2	0.6	2.4	
35-39	0.2	0.4	0.6	0.1	4.1		2.6	1.2	2.1	1.4	3.0	
40-44	2.9	1.1	2.7	1.5	5.0		7.7	3.0	2.6	2.1	3.3	
45-49	6.9	2.5	2.8	1.8	4.1		19.3	8.1	2.4	2.1	2.8	
50-54	14.6	6.0	2.5	1.8	3.3		47.2	18.6	2.5	2.3	2.8	
55-59	29.8	12.0	2.5	2.0	3.1		84.0	38.9	2.2	2.0	2.3	
60-64	40.5	19.7	2.1	1.7	2.5		154.6	68.6	2.3	2.1	2.4	
65-69	53.5	29.8	1.8	1.4	2.2		239.4	102.9	2.3	2.2	2.5	
70-74	73.4	41.6	1.8	1.4	2.2		287.3	138.2	2.1	1.9	2.3	
75-79	67.3	50.5	1.3	0.9	1.9		306.3	154.7	2.0	1.7	2.2	
80-84	187.8	57.4	3.3	2.0	5.5		286.8	167.8	1.7	1.3	2.3	

RR: Rate ratio; CI: confidence interval.

Supplementary Table 3. Age-specific incidence rate and rate ratio of breast (women) and endometrium cancer in population with and without family history of concordant cancer

Age at diagnosis (years)	Breast (women)					Endometrium				
	Incidence rate per 100 000 person years		Rate ratio (Familial/Non-familial)			Incidence rate per 100 000 person years		Rate ratio (Familial/Non-familial)		
	Familial	Non-familial	RR	95% CI		Familial	Non-familial	RR	95% CI	
20-24	1.3	0.5	2.5	1.4	4.3		0.1			
25-29	9.7	3.7	2.6	2.1	3.2	0.8	0.3	2.9	0.7	12.2
30-34	30.7	14.5	2.1	1.9	2.4	1.6	0.8	1.9	0.7	5.3
35-39	69.1	36.3	1.9	1.8	2.1	4.5	2.3	2.0	1.1	3.6
40-44	162.2	80.7	2.0	1.9	2.1	15.3	4.8	3.2	2.2	4.4
45-49	283.6	152.4	1.9	1.8	1.9	36.6	12.4	2.9	2.3	3.7
50-54	359.5	203.9	1.8	1.7	1.8	59.0	27.6	2.1	1.8	2.6
55-59	413.2	239.7	1.7	1.7	1.8	95.9	50.8	1.9	1.6	2.2
60-64	506.4	303.6	1.7	1.6	1.7	134.7	66.0	2.0	1.7	2.4
65-69	599.3	356.6	1.7	1.6	1.8	133.8	87.1	1.5	1.3	1.8
70-74	614.9	382.6	1.6	1.5	1.7	159.1	98.4	1.6	1.3	2.0
75-79	453.8	257.9	1.8	1.6	2.0	181.4	111.2	1.6	1.2	2.3
80-84	442.3	343.3	1.3	1.0	1.7	193.1	137.1	1.4	0.7	2.8

RR: Rate ratio; CI: confidence interval.

Supplementary Table 4. Age-specific incidence rate and rate ratio of prostate and kidney cancer in population with and without family history of concordant cancer

Age at diagnosis (years)	Prostate					Kidney				
	Incidence rate per 100 000 person years		Rate ratio (Familial/Non- familial)			Incidence rate per 100 000 person years		Rate ratio (Familial/Non-familial)		
	Familial	Non- familial	RR	95% CI		Familial	Non- familial	RR	95% CI	
20-24		0.0				0.3	0.1	2.7	0.4	20.1
25-29		0.0				1.4	0.2	5.8	2.3	14.4
30-34		0.0				1.7	0.4	3.8	1.7	8.6
35-39	0.4	0.1	3.4	1.2	9.7	2.3	1.1	2.0	1.0	4.1
40-44	6.1	1.0	6.0	4.4	8.1	4.2	2.3	1.9	1.1	3.2
45-49	33.6	7.8	4.3	3.8	4.9	10.4	4.4	2.4	1.7	3.4
50-54	155.5	47.0	3.3	3.1	3.5	17.1	7.4	2.3	1.7	3.1
55-59	476.0	165.5	2.9	2.8	3.0	25.2	11.9	2.1	1.6	2.7
60-64	1019.3	413.5	2.5	2.4	2.5	32.6	16.0	2.0	1.6	2.6
65-69	1626.7	753.6	2.2	2.1	2.2	32.7	21.0	1.6	1.2	2.1
70-74	1748.3	918.8	1.9	1.8	2.0	31.1	26.1	1.2	0.8	1.8
75-79	1577.9	945.0	1.7	1.6	1.8	61.4	26.2	2.3	1.5	3.7
80-84	1556.5	955.5	1.6	1.4	1.9	63.0	29.8	2.1	0.8	5.7

RR: Rate ratio; CI: confidence interval.

Supplementary Table 5. Age-specific incidence rate and rate ratio of bladder cancer and melanoma in population with and without family history of concordant cancer

Age at diagnosis (years)	Bladder					Melanoma				
	Incidence rate per 100 000 person years		Rate ratio (Familial/Non-familial)			Incidence rate per 100 000 person years		Rate ratio (Familial/Non-familial)		
	Familial	Non-familial	RR	95% CI		Familial	Non-familial	RR	95% CI	
20-24	0.4	0.3	1.4	0.5	4.5	8.0	3.2	2.5	1.9	3.2
25-29	1.0	0.5	2.3	1.1	4.6	18.8	5.7	3.3	2.8	3.9
30-34	1.7	0.7	2.4	1.4	4.2	22.8	9.4	2.4	2.1	2.8
35-39	2.2	1.4	1.5	0.9	2.5	34.8	13.7	2.5	2.2	2.9
40-44	5.4	3.0	1.8	1.3	2.6	50.5	18.9	2.7	2.4	3.0
45-49	10.5	5.5	1.9	1.5	2.4	57.9	24.1	2.4	2.1	2.7
50-54	21.4	10.7	2.0	1.7	2.4	69.2	28.5	2.4	2.2	2.7
55-59	37.8	20.3	1.9	1.6	2.2	84.5	35.7	2.4	2.1	2.7
60-64	70.7	35.3	2.0	1.8	2.3	120.4	44.5	2.7	2.4	3.0
65-69	97.3	55.4	1.8	1.5	2.0	160.9	57.5	2.8	2.5	3.2
70-74	148.0	82.9	1.8	1.6	2.1	159.6	69.3	2.3	2.0	2.7
75-79	177.8	109.1	1.6	1.3	2.0	223.2	89.2	2.5	2.0	3.1
80-84	235.3	135.8	1.7	1.2	2.5	242.1	118.8	2.0	1.2	3.4

RR: Rate ratio; CI: confidence interval.