

**Supplementary Table 1 Baseline characteristics of 70428 subjects by sex *n* (%)**

	Total ( <i>n</i> = 70428)	< 50 yr ( <i>n</i> = 59782)	≥ 50 yr ( <i>n</i> = 10646)	<i>P</i> value
<b>Male</b>				
Number	48868	42644	6224	
Age (yr, mean ± SD)	40.9 ± 7.9	38.7 ± 5.4	56.1 ± 5.8	< 0.001
BMI (kg/m <sup>2</sup> , mean ± SD)	24.5 ± 2.9	24.6 ± 2.9	24.3 ± 2.6	< 0.001
Obesity <sup>1</sup>	20008 (40.9)	17617 (41.3)	2391 (38.4)	< 0.001
Smoking				< 0.001
Never	24524 (50.2)	21311 (50.0)	3213 (51.6)	
Former	8891 (18.2)	7694 (18.0)	1197 (19.2)	
Current	15453 (31.6)	13639 (32.0)	1814 (29.1)	
Alcohol intake				< 0.001
No	13712 (28.1)	11781 (27.6)	1931 (31.0)	
Moderate	33401 (68.3)	29410 (69.0)	3991 (64.1)	
Heavy <sup>2</sup>	1755 (3.6)	1453 (3.4)	302 (4.9)	
CRC family history	1898 (3.9)	1470 (3.4)	428 (6.9)	< 0.001
SBP (mmHg)	114.4 ± 12.8	114.2 ± 12.7	115.4 ± 13.6	< 0.001
DBP (mmHg)	73.4 ± 9.5	73.2 ± 9.5	74.4 ± 9.8	0.001
HTN-R <sup>3</sup>	17829 (36.5)	15052 (53.3)	2777 (44.6)	< 0.001

DM-R <sup>4</sup>	13035 (26.7)	9677 (22.7)	2411 (38.7)	< 0.001
Regular exercise <sup>5</sup>	27230 (55.7)	24286 (57.0)	2944 (47.3)	< 0.001
Fasting glucose (mg/dL)	94.7 ± 15.2	94.1 ± 14.2	99.0 ± 20.2	< 0.001
Insulin (μIU/mL)	5.4 ± 5.6	5.3 ± 3.4	6.3 ± 12.9	< 0.001
HbA1c (%)	5.7 ± 0.5	5.6 ± 0.5	5.8 ± 0.7	< 0.001
Total-C (mg/dL)	202.4 ± 34.6	202.4 ± 24.4	202.5 ± 35.7	0.785
Triglyceride (mg/dL)	129.4 ± 81.7	129.3 ± 82.9	130.0 ± 80.5	0.543
Triglyceride ≥ 150 mg/dL	13687 (28.0)	11914 (27.9)	1773 (28.5)	0.368
HDL-C (mg/dL)	52.0 ± 12.2	52.1 ± 12.2	51.7 ± 12.6	0.040
HDL-C abnormality <sup>6</sup>	6571 (13.4)	5640 (13.2)	931 (15.0)	< 0.001
LDL-C (mg/dL)	128.8 ± 31.5	129.1 ± 31.4	127.0 ± 32.6	< 0.001
CEA (ng/mL)	1.76 ± 1.55	1.73 ± 1.48	2.00 ± 1.90	< 0.001
ACRN <sup>7</sup>	735 (1.5)	441 (1.0)	294 (4.7)	< 0.001
CRC	36 (0.1)	18 (0.1)	18 (0.3)	< 0.001
<b>Female</b>				
Number	21560	17138	4422	
Age (yr, mean ± SD)	43.0 ± 8.9	39.4 ± 5.2	56.9 ± 5.8	< 0.001
BMI (kg/m <sup>2</sup> , mean ± SD)	22.3 ± 3.1	21.9 ± 3.0	23.7 ± 3.0	< 0.001

Obesity <sup>1</sup>	3650 (16.9)	2338 (13.6)	1312 (29.7)	< 0.001
Smoking				< 0.001
Never	14431 (66.9)	11650 (68.6)	2671 (60.4)	
Former	2589 (23.0)	1916 (11.2)	673 (15.2)	
Current	4540 (21.1)	3462 (20.2)	1078 (24.4)	
Alcohol intake				< 0.001
No	8378 (38.9)	6736 (39.3)	1642 (37.1)	
Moderate	12625 (58.6)	9994 (58.3)	2631 (59.5)	
Heavy <sup>2</sup>	557 (2.6)	408 (2.4)	149 (3.4)	
CRC family history	881 (4.1)	641 (3.7)	240 (5.4)	< 0.001
SBP (mmHg)	110.7 ± 13.2	109.7 ± 12.8	114.4 ± 13.8	< 0.001
DBP (mmHg)	70.9 ± 9.5	70.1 ± 9.2	73.7 ± 9.9	< 0.001
HTN-R <sup>3</sup>	6042 (28.0)	4175 (24.4)	1867 (42.2)	< 0.001
DM-R <sup>4</sup>	3851 (17.9)	2306 (13.5)	1307 (29.6)	< 0.001
Regular exercise <sup>5</sup>	11149 (51.7)	9112 (53.2)	2037 (46.1)	< 0.001
Fasting glucose (mg/dL)	91.1 ± 13.3	89.9 ± 11.8	95.8 ± 17.4	< 0.001
Insulin (μIU/mL)	5.0 ± 3.8	4.7 ± 3.1	6.1 ± 5.7	< 0.001
HbA1c (%)	5.7 ± 0.5	5.6 ± 0.4	5.8 ± 0.6	< 0.001
Total-C (mg/dL)	194.0 ± 34.4	189.4 ± 32.3	211.9 ± 36.2	< 0.001
Triglyceride (mg/dL)	85.5 ± 50.6	80.6 ± 46.6	104.7 ± 60.0	< 0.001

Triglyceride $\geq 150$ mg/dL	1769 (8.2)	1043 (6.1)	726 (16.4)	< 0.001
HDL-C (mg/dL)	62.1 $\pm$ 14.6	62.9 $\pm$ 14.5	59.0 $\pm$ 14.3	< 0.001
HDL-C abnormality <sup>6</sup>	4330 (20.1)	3087 (18.0)	1243 (28.1)	< 0.001
LDL-C (mg/dL)	116.0 $\pm$ 31.3	111.9 $\pm$ 29.3	131.9 $\pm$ 33.7	< 0.001
CEA (ng/mL)	1.29 $\pm$ 1.70	1.21 $\pm$ 1.84	1.60 $\pm$ 0.91	< 0.001
ACRN <sup>7</sup>	225 (1.0)	123 (0.7)	102 (2.3)	< 0.001
CRC	18 (0.1)	7 (0.1)	11 (0.2)	< 0.001

<sup>1</sup>BMI  $\geq 25$  kg/m<sup>2</sup>; <sup>2</sup>More than 4 times per week; <sup>3</sup>Elevated blood pressure  $\geq 130/85$  mmHg or use of antihypertensive medications; <sup>4</sup>Fasting plasma glucose  $\geq 100$  mg/dL or hemoglobin A1c  $\geq 6.5\%$ , or use of diabetes medications; <sup>5</sup>More than once per week; <sup>6</sup>HDL-C < 40 mg/dL for men or < 50 mg/dL for women; <sup>7</sup>ACRN was defined as a polyp size of  $\geq 10$  mm in diameter, polyp with any component of villous histology, high-grade dysplasia, or invasive cancer. SD: Standard deviation; BMI: Body mass index; CRC: Colorectal cancer; SBP: Systolic blood pressure; DBP: Diastolic blood pressure; HTN-R: Hypertension-related factors; DM-R: Diabetes mellitus-related factors; HbA1c: Hemoglobin A1c; Total-C: Total cholesterol; HDL-C: High-density lipoprotein-cholesterol; LDL-C: Low-density lipoprotein-cholesterol; CEA: Carcinoembryonic antigen; ACRN: Advanced colorectal neoplasm.