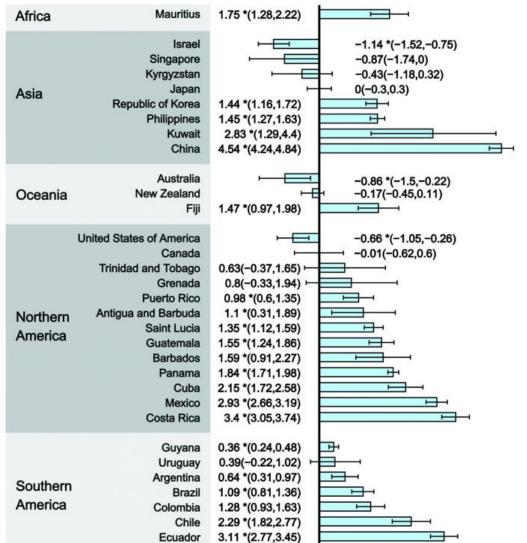
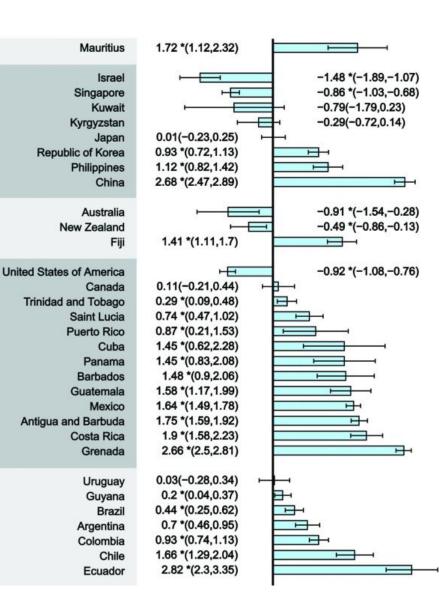
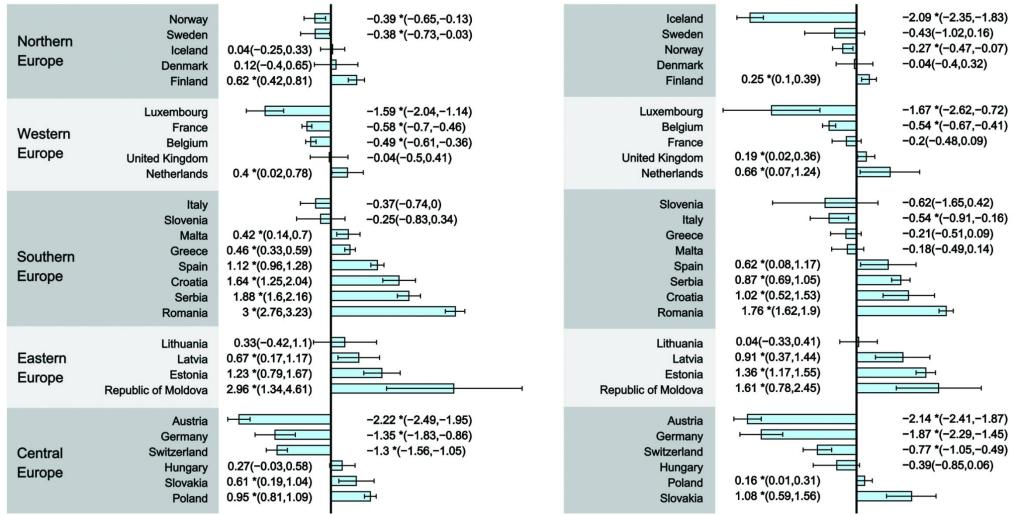
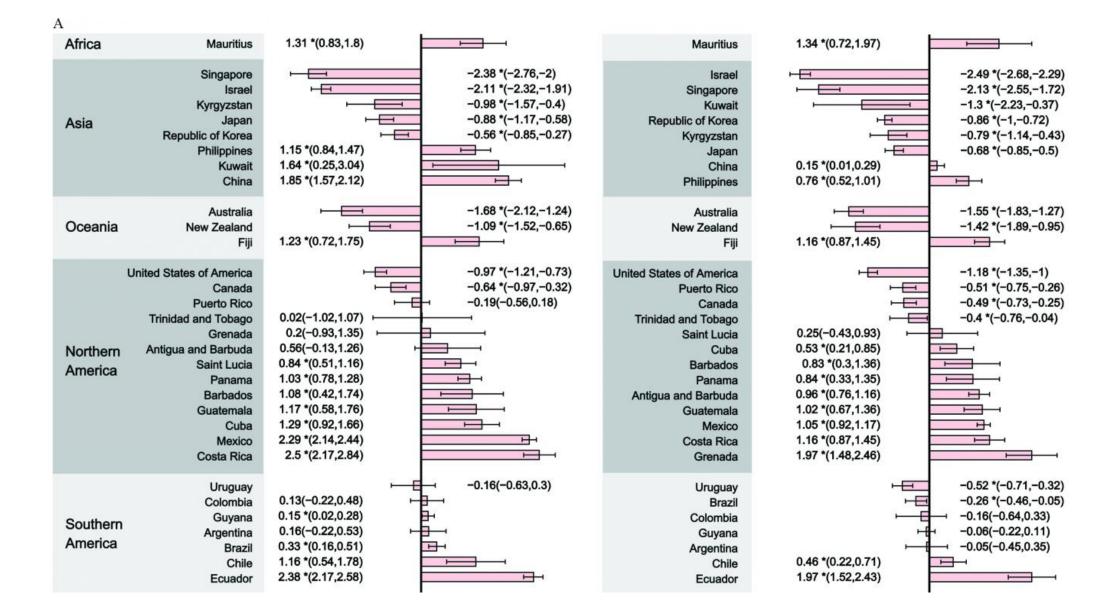
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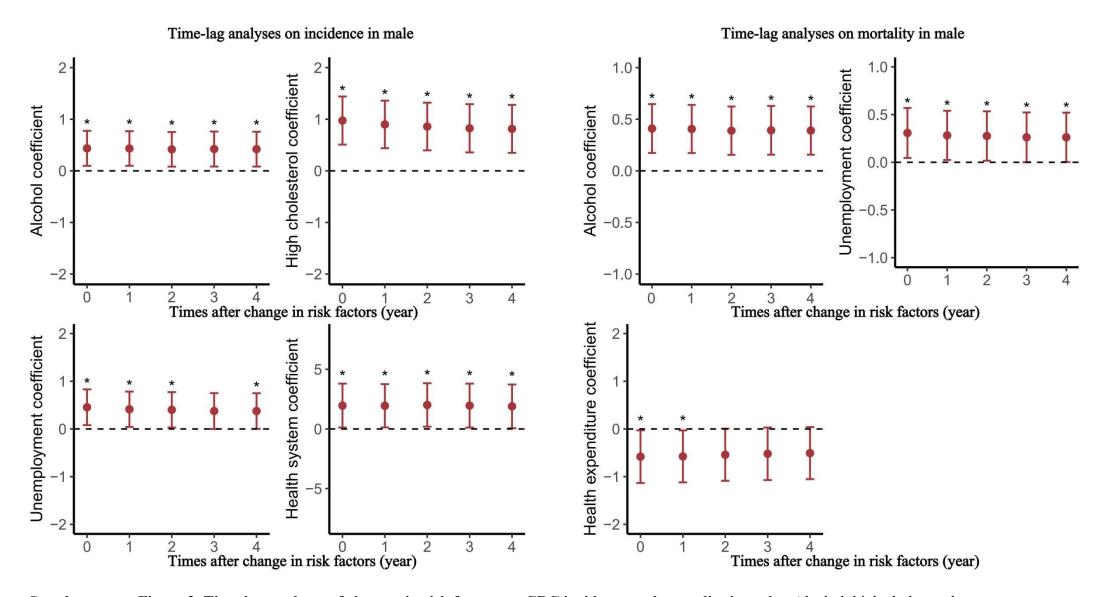


Supplementary Figure 1: The AAPC of the incidence of CRC in males (left panel) and females (right panel), all ages.(A) AAPC of countries in Africa, Asia, Oceania, Northern America and Southern America; (B) AAPC of countries in Northern Europe, Western Europe, Southern Europe, Eastern Europe and Central Europe. *P < 0.050. AAPC: Average annual percent change; CRC: Colorectal cancer.

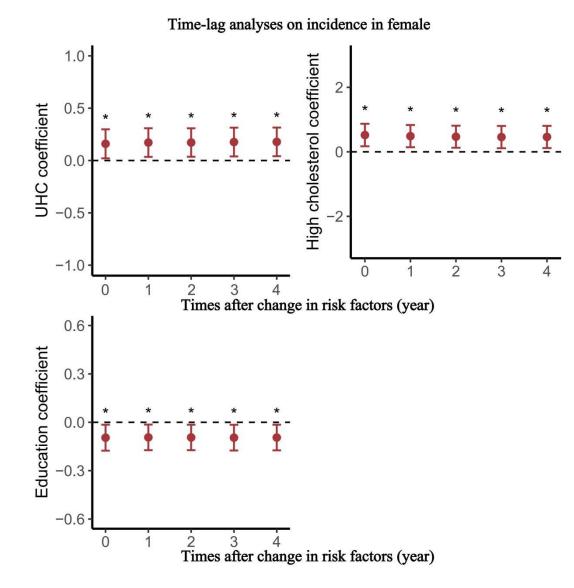


В						
Northern Europe	Norway Denmark Sweden Finland Iceland		-1.37 *(-1.66,-1.07) -1.23 *(-1.56,-0.91) -0.94 *(-1.12,-0.76) -0.51 *(-0.58,-0.44) -0.51(-1.12,0.1)	Iceland Denmark Norway Sweden Finland		-2.41 *(-2.64,-2.17) -1.42 *(-1.6,-1.24) -1.03 *(-1.19,-0.87) -0.77 *(-0.92,-0.63) -0.75 *(-0.88,-0.62)
Western Europe	Luxembourg France Belgium United Kingdom Netherlands		-2.45 *(-2.82,-2.08) -1.49 *(-1.96,-1.01) -1.31 *(-1.71,-0.9) -1.08 *(-1.32,-0.85) -0.64 *(-0.95,-0.34)	Luxembourg Belgium France United Kingdom Netherlands		-2.4 *(-2.8,-1.99) -1.27 *(-1.56,-0.97) -1.24 *(-1.64,-0.84) -0.85 *(-0.96,-0.74) -0.35 *(-0.65,-0.05)
Southern Europe	Slovenia Italy Malta Greece Spain Croatia Serbia Romania	0.11 *(0.01,0.22) 0.71 *(0.35,1.08) 0.84 *(0.61,1.08) 2.01 *(1.8,2.22)	-1.39 *(-2.2,-0.57) -1.13 *(-1.37,-0.89) -0.51 *(-0.95,-0.06) -0.05(-0.18,0.07)	Slovenia Malta Italy Greece Spain Serbia Croatia Romania	0.27(-0.21,0.75)	-1.85 *(-2.79,-0.9) -1.28 *(-1.69,-0.86) -1.26 *(-1.49,-1.02) -1.03 *(-1.39,-0.68) -0.33(-0.72,0.07) -0.11(-0.35,0.14)
Eastern Europe	Estonia Latvia Lithuania Republic of Moldova	2.07 *(0.97,3.19)	-0.45 *(-0.81,-0.08) -0.26(-0.74,0.22) 0(-0.53,0.54)	Lithuania Estonia Latvia Republic of Moldova	0.81(-0.55,2.18)	-0.57 *(-0.89,-0.25) -0.5 *(-0.7,-0.3) -0.39 *(-0.76,-0.01)
Central Europe	Austria Germany Switzerland Slovakia Hungary Poland	· <u>⊢</u> · <u>⊢</u> · <u>⊢</u> · <u>⊢</u> · <u>⊢</u> · <u>⊢</u> · <u>⊢</u> · <u>⊢</u>	-2.89 *(-3.17,-2.61) -2.33 *(-2.8,-1.86) -1.77 *(-2.02,-1.52) -0.55 *(-0.9,-0.19) -0.44 *(-0.69,-0.19)	Germany Austria Hungary Switzerland Poland Slovakia		-2.83 *(-3.32,-2.34) -2.71 *(-3.16,-2.26) -1.34 *(-1.5,-1.18) -1.22 *(-1.41,-1.04) -0.63 *(-0.84,-0.42) -0.14(-0.56,0.28)

Supplementary Figure 2: The AAPC of the mortality of CRC in males (left panel) and females (right panel), all ages. *P < 0.050. AAPC: Average annual percent change; CRC: Colorectal cancer.



Supplementary Figure 3: Time-lag analyses of changes in risk factors on CRC incidence and mortality in males. Alcohol, high cholesterol, unemployment and health system were associated with the ASIR among males. Alcohol and unemployment were associated with the ASIR among males. *P < 0.050. CRC: Colorectal cancer.



Supplementary Figure 4: Time-lag analyses of changes in associated factors for CRC incidence in females. Level of UHC, high cholesterol and education were associated with the ASIR among females. *P < 0.050. CRC: Colorectal cancer.