## Medical

## Metabolic health may play role in obesityrelated cancers

## February 7 2023

Cancer type/exposure	No. at risk/cases	HR (95% CI)
All obesity-related cancers Met. healthy normal weight Met. unhealthy normal weight Met. healthy overweight Met. unhealthy overweight Met. healthy obesity Met. unhealthy obesity Colon cancer Met. healthy normal weight	147 892/2252 38 845/849 102 946/1726 71 464/1753 14 334/241 24 630/695	Referent 1.17 (1.08 to 1.27) 1.17 (1.10 to 1.25) 1.38 (1.29 to 1.48) 1.40 (1.21 to 1.63) 1.91 (1.74 to 2.09) Referent
Met. unhealthy normal weight Met. healthy overweight Met. unhealthy overweight Met. healthy obesity Met. unhealthy obesity Rectal cancer	38845/366 102946/731 71464/742 14334/106 24630/290	1.14 (1.01 to 1.29) 1.13 (1.03 to 1.25) 1.31 (1.19 to 1.45) 1.42 (1.12 to 1.79) 1.85 (1.61 to 2.12)
Met. healthy normal weight Met. unhealthy normal weight Met. healthy overweight Met. unhealthy overweight Met. healthy obesity Met. unhealthy obesity	147892/756 38845/240 102946/507 71464/483 14334/51 24630/159	Referent 0.98 (0.85 to 1.14) 1.01 (0.90 to 1.14) 1.16 (1.03 to 1.31) 0.94 (0.70 to 1.27) 1.32 (1.11 to 1.57)
Pancreatic cancer Met. healthy normal weight Met. unhealthy normal weight Met. healthy overweight Met. unhealthy overweight Met. healthy obesity Met. unhealthy obesity	147892/361 38845/128 102946/236 71464/230 14334/35 24630/73	Referent 1.04 (0.82 to 1.31) 1.04 (0.88 to 1.23) 1.12 (0.93 to 1.34) 1.27 (0.87 to 1.84) 1.32 (1.02 to 1.71)
Renal cell cancer Met. healthy normal weight Met. unhealthy normal weight Met. healthy overweight Met. unhealthy overweight Met. healthy obesity Met. unhealthy obesity	147 892/365 38 845/163 102 946/297 71 464/328 14 334/46 24 630/155	Referent 1.43 (1.16 to 1.77) 1.22 (1.04 to 1.44) 1.66 (1.41 to 1.95) 1.67 (1.22 to 2.30) 2.59 (2.12 to 3.16)
Multiple myeloma Met. healthy normal weight Met. unhealthy normal weight Met. healthy overweight Met. unhealthy overweight Met. healthy obesity Met. unhealthy obesity	147892/191 38845/55 102946/194 71464/158 14334/10 24630/22	Referent 1.00 (0.72 to 1.37) 1.53 (1.24 to 1.88) 1.55 (1.24 to 1.94) 0.68 (0.35 to 1.36) 0.98 (0.66 to 1.46)

Hazard ratios (95% confidence interval) of all obesity-related cancers and



common cancer forms in 400 111 men according to combinations of metabolic health status and body mass index. Hazard ratios were calculated by use of Cox regression using age as timescale, adjusted for sex, baseline age, and smoking status and pack-years and stratified by cohort and date of birth. Normal weight: 18.5≤BMI

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