

SUPPLEMENTARY DATA

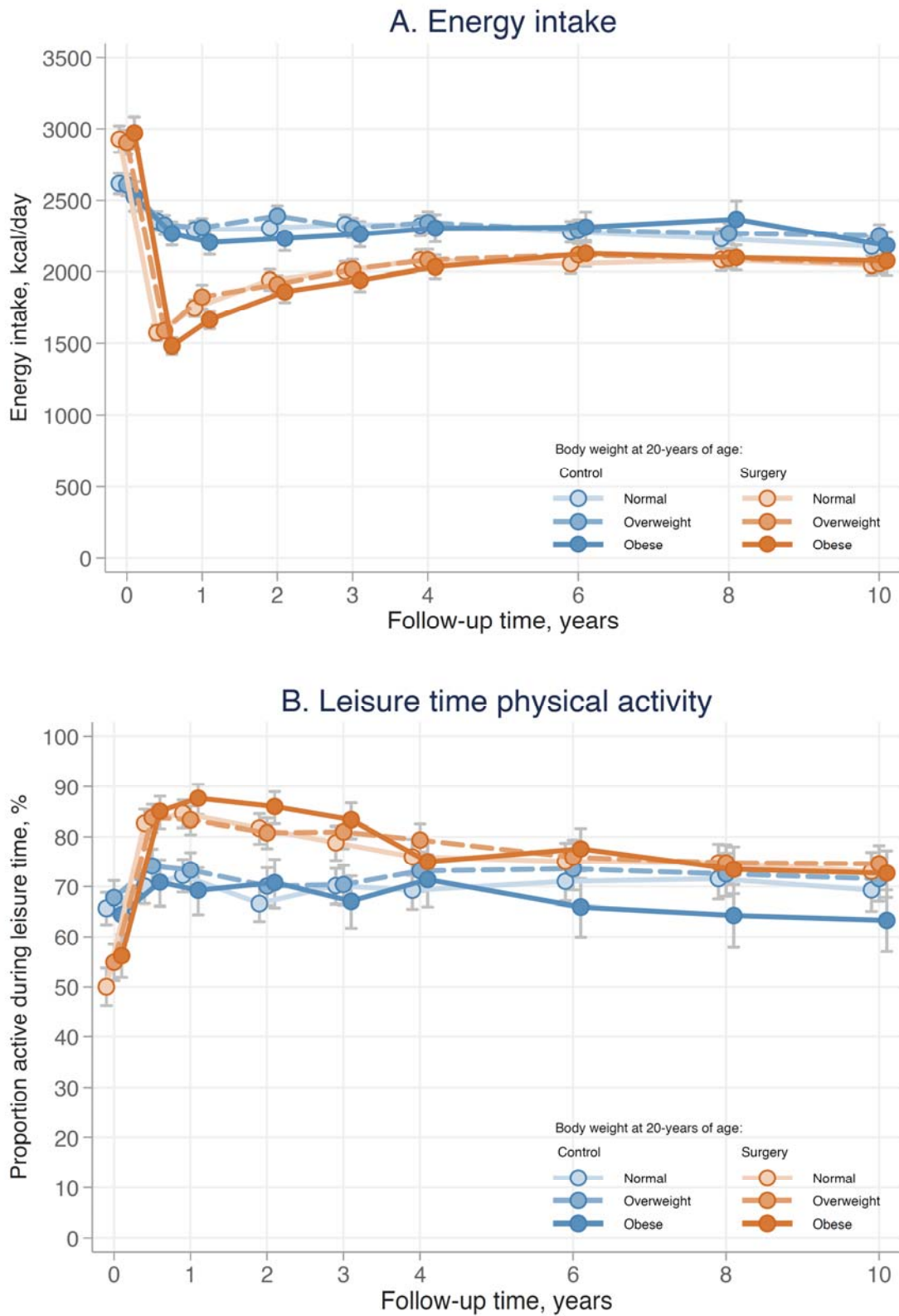
**Supplementary Table 1.** Surgical complications in patients in the surgery group divided by self-reported BMI at the age of 20

Self-reported BMI at 20 years	BMI<25 (n=725)	BMI 25-29.99 (n=744)	BMI≥30 (n=528)		Total (n=1997)
Variable	n (%)	n (%)	n (%)	Fishers P	n (%)
Anastomotic leak	9 (1.2)	9 (1.2)	11 (2.1)	0.393	29 (1.5)
Death	1 (0.1)	2 (0.3)	2 (0.4)	0.855	5 (0.3)
Haemorrhage	5 (0.7)	18 (2.4)	2 (0.4)	0.002	25 (1.3)
Ileus	4 (0.6)	4 (0.5)	2 (0.4)	1.000	10 (0.5)
Pulmonary	34 (4.7)	37 (5.0)	18 (3.4)	0.384	89 (4.5)
Wound rupture	3 (0.4)	6 (0.8)	5 (0.9)	0.465	14 (0.7)
Thromboembolism	6 (0.8)	2 (0.3)	8 (1.5)	0.044	16 (0.8)
Vomiting	25 (3.4)	24 (3.2)	12 (2.3)	0.466	61 (3.1)
Wound infection	15 (2.1)	12 (1.6)	16 (3.0)	0.233	43 (2.2)
Other infection	10 (1.4)	13 (1.7)	5 (0.9)	0.516	28 (1.4)
Others	6 (0.8)	5 (0.7)	10 (1.9)	0.103	21 (1.1)
Re-operations	18 (2.5)	23 (3.1)	17 (3.2)	0.681	58 (2.9)
<b>Total complications*</b>	<b>99 (13.7)</b>	<b>116 (15.6)</b>	<b>75 (14.2)</b>	<b>0.568</b>	<b>290 (14.5)</b>

\*Total complications: the total number of individuals with complications. Individuals can have more than one type of complication.

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**Supplementary Figure 1. A) Energy expenditure and B) leisure time physical activity over 10 years after bariatric surgery or usual in subgroups with self-reported normal BMI, overweight or obesity at the age of 20. Error bars represent 95% confidence intervals (CI).**



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**Supplementary Figure 2. Treatment benefit of bariatric surgery on obesity co-morbidities in subgroups with self-reported normal BMI, overweight or obesity at the age of 20.** The incidence of total cardiovascular events, myocardial infarction, stroke, microvascular disease, and cancer over up to 26 years of follow-up was determined using data from national health registers. Dots with bars represent the hazard ratio (HR) with 95% confidence intervals (CI) for subgroups of the surgery group compared to the corresponding subgroups of the control group.

