**Supplementary Table 3. Association between bariatric surgery and health outcomes stratified by surgery subtype, baseline type 2 diabetes and baseline CVD**

|  |  |  |
| --- | --- | --- |
| Outcome | Exposure | Hazard Ratio, 95% CI |
|  |  | People with CVD | People with diabetes | Gastric band | Gastric bypass | Sleeve gastrectomy |
| Type 2 diabetes First diag First OAD First insulin Resolution  | No surgerySurgeryNo surgerySurgeryNo surgerySurgeryNo surgerySurgery | 0.61 (0.44-0.87)0.25 (0.13-0.48)-0.23 (0.10-0.57)-7.53 (5.13-11.06) | N/A | -0.64 (0.50-0.81)-0.28 (0.18-0.43)-0.29 (0.14-0.62)-1.9 (1.4-2.6) | -1.02 (0.66-1.59)-0.33 (0.13-0.81)-0.18 (0.03-1.34)-8.2 (5.8-11.5) | -0.62 (0.43-0.89)-0.17 (0.07-0.38)-0.08 (0.01-0.56)-10.95 (8.41-14.26) |
| Hypertension Diagnosis Resolution | No surgerySurgeryNo surgerySurgery | -0.18 (0.04-0.91)-N/A | -0.33 (0.21-0.53)-5.73 (1.68-19.57) | -0.41 (0.31-0.55)-1.86 (0.82-4.21) | -0.33 (0.16-0.67)-8.86 (3.76-20.91) | -0.20 (0.11-0.36)-8.23 (4.05-16.75) |
| Angina | No surgerySurgery | -0.50 (0.29-0.85) | -0.45 (0.24-0.85) | -0.74 (0.48-1.14) | -0.70 (0.30-1.63) | -0.26 (0.10-0.64) |
| MI | No surgerySurgery | -0.30 (0.10-0.93) | -0.38 (0.12-1.19) | -0.29 (0.08-0.98) | -N/A | -0.39 (0.09-1.67) |
| Stroke | No surgerySurgery | -1.03 (0.43-2.47) | -0.57 (0.24-1.36) | -0.67 (0.28-1.59) | -0.75 (0.17-3.26) | -1.49 (0.65-3.43) |
| Fractures Hip Wrist Spine Any | No surgerySurgeryNo surgerySurgeryNo surgerySurgeryNo surgerySurgery | -1.50 (0.25-9.00)-2.83 (1.09-7.32)-1.75 (0.63-4.83)-2.00 (0.95-4.19) | -1.65 (0.27-9.92)-1.57 (0.66-3.71)-1.31 (0.47-3.62)-1.17 (0.57-2.38) | -1.24 (0.39-3.90)-1.79 (0.93-3.44)-0.98 (0.36-2.67)-1.33 (0.78-2.26) | -2.28 (0.47-11.05)-0.49 (0.06-3.66)-0.74 (0.09-5.72)-0.81 (0.25-2.66) | -0.50 (0.06-4.10)-1.57 (0.68-3.62)-2.21 (0.85-5.72)-1.10 (0.54-2.25) |
| Fatty liver | No surgerySurgery | -0.65 (0.23-1.83) | -0.81 (0.29-2.23) | -0.62 (0.29-1.33) | -0.74 (0.18-3.15) | -0.26 (0.06-1.12) |
| Obstructive sleep apnoea | No surgerySurgery | -0.58 (0.32-1.07) | -0.67 (0.34-1.34) | -0.68 (0.44-1.05) | -0.32 (0.08-1.29) | -0.35 (0.15-0.80) |
| Any cancer | No surgerySurgery | -0.80 (0.55-1.18) | -0.80 (0.53-1.20) | -0.85 (0.63-1.14) | -1.17 (0.72-1.90) | -1.06 (0.75-1.49) |
| Mortality | No surgerySurgery | -0.86 (0.53-1.41) | -1.00 (0.60-1.67) | -0.57 (0.32-0.99) | -1.50 (0.79-2.85) | -1.33 (0.79-2.22) |