Supplementary Table S1. Sensitivity Test For different outcomes via leave-one-out method

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| --- | --- | --- | --- |
| Sensitivity test interaction | Study excluded | Pooled effect size after exclusion | Heterogeneity after study exclusion |
| OR | 95% CI (P-value) | I2 |
| Fasting glucose |  |  |  |  |
| 1 | Banini AE 2006 | -0.06 | -0.71, 0.59 (0.86) | 98% |
| 2 | Gin H 1999 | 0 | -0.85, 0.85 (0.99) | 98% |
| 3 | Marfella R 2006 | -0.04 | -0.94, 0.86 (0.93) | 98% |
| 4 | Mori TA 2016 | 0.17 | -0.44, 0.78 (0.59) | 97% |
| 5 | Napoli R 2005 | -0.29 | -0.66, 0.07 (0.12) | 91% |
| 6 | SHAI I 2007 | 0.22 | -0.39, 0.82 (0.48) | 97% |
| Fasting insulin |  |  |  |  |
| 1 | Gin H 1999 | -0.69 | -2.95, 1.56 (0.55) | 94% |
| 2 | Marfella R 2006 | 0.63 | -0.14, 1.39 (0.11) | 0% |
| 3 | Napoli R 2005 | -0.56 | -3.1, 1.99 (0.67) | 94% |
| HbA1c ( %) |  |  |  |  |
| 1 | Banini AE 2006 | -0.44 | -0.16, 0.08 (0.54) | 23% |
| 2 | Bantle AE 2008 | -0.19 | -0.45, 0.07 (0.16) | 84% |
| 3 | Marfella R 2006 | -0.25 | -0.57, 0.06 (0.12) | 82% |
| 4 | Napoli R 2005 | -0.12 | -0.37, 0.12 (0.32) | 81% |
| 5 | SHAI I 2007 | -0.22 | -0.6, 0.16 (0.26) | 79% |
| HDLC |  |  |  |  |
| 1 | Banini AE 2006 | 0.28 | -0.23, 0.80 (0.28) | 96% |
| 2 | Bantle AE 2008 | 0.28 | -0.09, 0.65 (0.14) | 96% |
| 3 | Marfella R 2006 | 0.01 | -0.04, 0.07 (0.61) | 0% |
| 4 | Mori TA 2016 | 0.23 | -0.08, 0.55 (0.15) | 96% |
| 5 | SHAI I 2007 | 0.28 | -0.25, 0.81 (0.31) | 96% |
| LDLC |  |  |  |  |
| 1 | Banini AE 2006 | -0.06 | -0.32, 0.19 (0.63) | 63% |
| 2 | Bantle AE 2008 | -0.02 | -0.33, 0.29 (0.90) | 69% |
| 3 | Mori TA 2016 | -0.08 | -0.40, 0.25 (0.65) | 47% |
| 4 | SHAI I 2007 | 0.08 | -0.06, 0.23 (0.26) | 0% |
| TG |  |  |  |  |
| 1 | Banini AE 2006 | -0.36 | -1.43, 0.72 (0.52) | 100% |
| 2 | Bantle AE 2008 | -0.39 | -1.45, 0.66 (0.47) | 100% |
| 3 | Marfella R 2006 | -0.05 | -0.36, 0.26 (0.74) | 82% |
| 4 | Mori TA 2016 | -0.45 | -1.37, 0.47 (0.34) | 99% |
| 5 | Napoli R 2005 | -0.33 | -1.49, 0.83 (0.58) | 100% |
| 6 | SHAI I 2007 | -0.43 | -1.49, 0.63 (0.42) | 100% |