|               | method                   | method        |  | b                 |                  | 9                |                 |            | pval              |  |
|---------------|--------------------------|---------------|--|-------------------|------------------|------------------|-----------------|------------|-------------------|--|
| 1             | MR Egger                 |               | 15                                     | -4.115969         | 58351311         | 10.84048         | 267785          | 24 0.7103  | 309388970725      |  |
| 2             | Weighted median          |               | 15                                     | -2.5284617355941  |                  | 4.94981167997059 |                 | 59 0.6094  | 0.609477254209783 |  |
| 3             | nverse variance weighted |               | 15                                     | 1.079296          | 5927695          | 3.96061144546669 |                 | 69 0.7852  | 231772976269      |  |
| 4             | Simple mod               | Simple mode   |  | 13.075232         | 7588237          | 9.03274254159603 |                 | 03 0.1697  | 0.169767597379214 |  |
| 5             | Weighted mo              | Weighted mode |  | -3.357148         | 78762492         | 5.82903088977282 |                 | 82 0.5738  | 0.573800767233079 |  |
| 6             |                          |               |  |                   |                  |                  |                 |            |                   |  |
| 7             | type                     | type          |  | method            |                  | Q                | Q_df            | Q_pval     |                   |  |
| 8             | 1 heterogeneity          |               |  | ger               | 18.1328538273604 |                  | 13              |            | 0.152539922779402 |  |
| 9             | 2 heterogeneity          |               |  | variance weighted |                  | 18.5057385654263 |                 | 0.1847077  | 184707774336651   |  |
| 10            | 3                        |               |  | -                 |                  |                  |                 |            |                   |  |
| 11            | 1                        |               |  |                   |                  |                  |                 | *44        |                   |  |
| type          | at Transfer and/or a     | exposure      |  |                   |                  | b 0074           | egger_intercept |            |                   |  |
| oleiotropy_te | est freatment/med        | ode: tn       | de: thyroxine product    id:ukb-b-9971 |                   |                  | 0.0117816 0.02   |                 | 0.02278653 |                   |  |
| 14            | 7                        |               |  |                   |                  |                  |                 |            |                   |  |
| 15            | 8                        |               |  |                   |                  |                  |                 |            |                   |  |
| 16            | 9                        |               |  |                   |                  |                  |                 |            |                   |  |
| 1.7           | 10                       |               |  |                   |                  |                  |                 |            |                   |  |
| 18            |                          |               |  |                   |                  |                  |                 |            |                   |  |
| 19            |                          |               |  |                   |                  |                  |                 |            |                   |  |
| 20            |                          |               |  |                   |                  |                  |                 |            |                   |  |
| 21            |                          |               |  |                   |                  |                  |                 |            |                   |  |
| 22            |                          |               |  |                   |                  |                  |                 |            |                   |  |
| 23            |                          |               |  |                   |                  |                  |                 |            |                   |  |
| 23            |                          |               |  |                   |                  |                  |                 |            |                   |  |
| 23            |                          |               |  |                   |                  |                  |                 |            |                   |  |
|               |                          |               |  |                   |                  |                  |                 |            |                   |  |





