| Study | SMD S | SE(SMD) | Standardised Mean Difference | SMD | 95%-CI | Weight |
|--------------------------------|----------|----------|---------------------------------|------------------|-------------------------------|--------|
| GuYY_2017_Acarbose_D90 | -17.4400 | 3.8200 | | –17.44 [– | -24.93; -9.95] | 16.8% |
| ZhangXY_2021_Acarbose_D168 | -11.6900 | 3.0500 | | -11.69 [- | -17.67; -5.71] | 17.7% |
| ZhangYF_2020_Berberine_D84 | 0.5100 | 3.6200 | | 0.51 | [-6.59; 7.61] | 17.1% |
| WuH_2018_Metformin_D60 | | | | | | 0.0% |
| WuH_2018_Metformin_D120 | | | | | | 0.0% |
| Ren_2023_Metformin_D90 | 0.6700 | 4.9600 | | 0.67 [| -9.05; 10.39] | 15.4% |
| ZhangXY_2021_Vlidagliptin_D168 | 1.4600 | 3.6100 | - | 1.46 | [-5.62; 8.54] | 17.1% |
| GuYY_2017_Glipizide_D90 | 13.1500 | 4.5800 | | 13.15 | [4.17; 22.13] | 15.9% |
| Random effects model (HK) | | | | -2.47 [- | –13.81 ; 8.87] | 100.0% |
| Prediction interval | | - | | - | -32.08; 27.14] | |
| | | <u> </u> | 30 –20 –10 0 10 20 3 | 0 | | |

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Heterogeneity: $I^2 = 87\%$, $\tau^2 = 95.2578$, p < 0.01