Table S1: Search Terms

Search Terms
"sex*", "gender*" "sex difference*" "gender difference*", "sex characteristic*", "gender characteristic*", "dementia", "alzheimer's", "cognitive deficit?", "Cognitive impairment", "cognitive decline", "delirium", "homocystein$", "homocystin$", "hyperhomocysteinemia", "hyperhomocysteinaemia", "hyperhomocyst?in?emi$"

All search terms were performed with key words **.mp.** as multiple purposes for the title, abstract, subject heading, author keywords and other relevant information

Figure S1: Funnel plot evaluating publication bias across studies
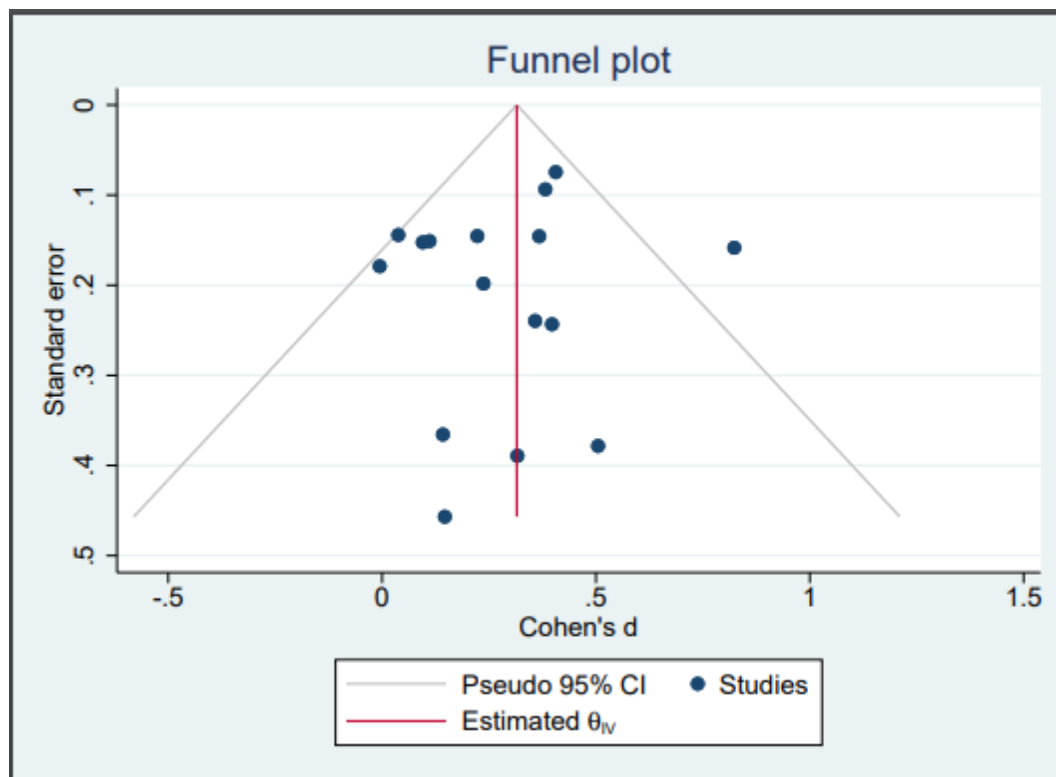
Figure S2: Egger's test results

```
H0: beta1 = 0; no small-study effects
            beta1 =     -0.23
      SE of beta1 =     0.742
               z =      -0.31
      Prob > |z| =     0.7600


.
```

Conclusion: No small- study effects, P =0.76 >0.05, low bias among studies