**NMA on PTSD**

**Appendix 10**

Design-by-treatment interaction model for inconsistency

**Design-by-treatment interaction model**

We further assessed the assumption of consistency in the entire network simultaneously using the design-by-treatment interaction model (see Table 1, here below).

**Primary outcomes**

For the ‘change in symptoms’ outcome the four inconsistency parameters are smaller than their standard errors and the χ2 test is 0.56 on 4 degrees of freedom suggesting lack of evidence of inconsistency (p=0.97). The overall heterogeneity for the inconsistency model is slightly larger than the heterogeneity under the consistency model.

For the outcome of ‘any-cause dropouts’ the three inconsistency parameters are smaller than their standard errors suggesting lack of statistical inconsistency. The χ2 test for inconsistency was 0.72 on 3 degrees of freedom suggesting the absence of statistical inconsistency in the entire network (p=0.87). The overall heterogeneity is 0 in the inconsistency model as in the consistency model.

**Secondary outcomes**

For the ‘response rate’ outcome we did not fit the design-by-treatment interaction model as the only loop in the network is Placebo-Phenelzine-Imipramine which is informed only by a three-arm study. Thus, neither loop inconsistency nor design inconsistency can be assessed.

For the ‘adverse events’ outcome the degrees of freedom for inconsistency are 3. The overall heterogeneity is equal to the consistency model (0). The χ2 test is 3.04 on 3 degrees of freedom suggesting lack of evidence of inconsistency (p=0.38).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Outcome** | **χ2 test** | **Degrees of freedom** | **p-value** | **Heterogeneity under the consistency model** | **Heterogeneity under the inconsistency model** |
| Change in symptoms | 0.56 | 4 | 0.97 | 0.10 | 0.14 |
| Any-cause dropouts | 0.72 | 3 | 0.87 | 0 | 0 |
| Response rate | Not implemented (neither loop nor design inconsistency can be assessed) | | | | |
| Adverse events | 3.04 | 3 | 0.38 | 0 | 0 |

Table 4: Design by treatment inconsistency model for the four outcomes.