|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comparison of the original path model co-efficients with the mean coefficients from 1000 replications of bootstrap re-sampling | | | | |
| Pathway | Co-efficients | | p† | 95% CI† |
| Observed | Bootstrap |
| ∆DAS28 to ∆pain | 5.51 | 5.53 | >0.001 | 4.99 - 6.02 |
| Sex to ∆pain | 4.55 | 4.52 | >0.001 | 2.92 - 6.18 |
| Depression to ∆pain | 2.74 | 2.72 | 0.006 | 0.77 - 4.72 |
| ∆DAS28 to ∆HAQ | 0.11 | 0.11 | >0.001 | 0.10 - 0.12 |
| Depression to ∆HAQ | 0.08 | .08 | 0.001 | 0.03 - 0.12 |
| ∆pain to ∆MH | 0.30 | 0.30 | >0.001 | 0.25 – 0.34 |
| ∆HAQ to ∆MH | 5.72 | 5.72 | >0.001 | 3.92 - 7.51 |
| ∆DAS28 to ∆MH | 1.10 | 1.11 | >0.001 | 0.54 - 1.65 |
| ∆pain to ∆fatigue | 0.29 | 0.29 | >0.001 | 0.25 – 0.33 |
| ∆HAQ to ∆fatigue | 6.56 | 6.60 | >0.001 | 5.01 - 8.12 |
| ∆MH to ∆fatigue | 0.27 | 0.27 | >0.001 | 0.24 - 0.30 |
| ∆DAS28 to ∆fatigue | 0.69 | 0.70 | 0.006 | 0.20 - 1.19 |
| Sex to ∆fatigue | 2.94 | 2.97 | >0.001 | 1.50 - 4.38 |
| Depression to ∆fatigue | 2.38 | 2.37 | 0.002 | 0.87 - 3.89 |
| Correlation of errors: ∆pain and ∆HAQ | 4.69 | 4.68 | >0.001 | 4.22 - 5.16 |

Supplementary Data

† p-value and 95%CI for bootstrapped co-efficients. DAS28 = disease activity, HAQ=disability, MH=mental health,