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| 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,