

Supplemental file 2

Association between BBQ scores at baseline and LBP intensity and disability at 2, 13 and 52 weeks stratified by LBP history

| LBP intensity (NRS)              |             |        |       |       |                        |        |       |       |                   |        |       |       |                    |       |       |       |
|----------------------------------|-------------|--------|-------|-------|------------------------|--------|-------|-------|-------------------|--------|-------|-------|--------------------|-------|-------|-------|
| Acute new (n=209)                |             |        |       |       | Acute episodic (n=932) |        |       |       | Sub acute (n=615) |        |       |       | Persistent (n=473) |       |       |       |
|                                  | Coefficient | p      | 95%CI |       | Coefficient            | p      | 95%CI |       | Coefficient       | p      | 95%CI |       | Coefficient        | p     | 95%CI |       |
| Time                             |             |        |       |       |                        |        |       |       |                   |        |       |       |                    |       |       |       |
| 2 weeks                          | -3.82       | <0.001 | -5.75 | -1.89 | -2.76                  | <0.001 | -3.76 | -1.76 | -2.26             | 0.001  | -3.55 | -0.97 | -1.004             | 0.104 | -2.35 | 0.34  |
| 13 weeks                         | -4.58       | <0.001 | -6.65 | -2.52 | -3.59                  | <0.001 | -4.62 | -2.57 | -3.64             | <0.001 | -4.96 | -2.32 | -1.80              | 0.009 | -3.17 | -0.44 |
| 52 weeks                         | -6.73       | <0.001 | -8.8  | -4.67 | -3.48                  | <0.001 | -4.53 | -2.43 | -3.12             | <0.001 | -4.45 | -1.8  | -1.73              | 0.024 | -3.22 | -0.23 |
| BBQ                              | -0.02       | 0.407  | -0.06 | 0.02  | -0.02                  | 0.153  | -0.04 | 0.01  | -0.02             | 0.082  | -0.05 | 0.003 | -0.04              | 0.009 | -0.07 | -0.01 |
| Interaction between BBQ and time |             |        |       |       |                        |        |       |       |                   |        |       |       |                    |       |       |       |
| 2 weeks                          | -0.01       | 0.686  | -0.07 | 0.05  | -0.03                  | 0.087  | -0.06 | 0.004 | 0.002             | 0.919  | -0.04 | 0.04  | -0.02              | 0.330 | -0.06 | 0.02  |
| 13 weeks                         | -0.04       | 0.223  | -0.1  | 0.02  | -0.05                  | 0.002  | -0.08 | -0.02 | 0.01              | 0.753  | -0.03 | 0.05  | -0.02              | 0.342 | -0.06 | 0.02  |
| 52 weeks                         | 0.03        | 0.334  | -0.03 | 0.09  | -0.05                  | 0.001  | -0.09 | -0.02 | -0.01             | 0.580  | -0.05 | 0.03  | -0.02              | 0.329 | -0.07 | 0.02  |
| Interaction term                 | 0.2262      |        |       |       | 0.0025                 |        |       |       | 0.8756            |        |       |       | 0.6618             |       |       |       |

| DISABILITY (RMDQ)                                                                                                                                                                                                                       |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|
| Time                                                                                                                                                                                                                                    |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |       |
| 2 weeks                                                                                                                                                                                                                                 | -38.65 | <0.001 | -58.85 | -18.44 | -34.47 | <0.001 | -44.33 | -24.60 | -18.83 | 0.002  | -30.52 | -7.13  | -2.08  | 0.722 | -13.51 | 9.36  |
| 13 weeks                                                                                                                                                                                                                                | -49.42 | <0.001 | -71.46 | -27.38 | -44.11 | <0.001 | -54.47 | -33.76 | -34.83 | <0.001 | -47.1  | -22.56 | -16.21 | 0.009 | -28.41 | -4.0  |
| 52 weeks                                                                                                                                                                                                                                | -47.51 | <0.001 | -70.78 | -24.24 | -46.19 | <0.001 | -57.07 | -35.31 | -40.62 | <0.001 | -53.65 | -27.6  | -3.88  | 0.590 | -17.97 | 10.22 |
| BBQ                                                                                                                                                                                                                                     | -0.35  | 0.127  | -0.81  | 0.10   | -0.56  | <0.001 | -0.79  | -0.34  | -0.41  | 0.001  | -0.67  | -0.16  | -0.4   | 0.002 | -0.65  | -0.15 |
| Interaction between BBQ and time                                                                                                                                                                                                        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |       |
| 2 weeks                                                                                                                                                                                                                                 | 0.05   | 0.875  | -0.55  | 0.65   | 0.07   | 0.635  | -0.23  | 0.37   | 0.07   | 0.696  | -0.28  | 0.42   | -0.29  | 0.110 | -0.64  | 0.07  |
| 13 weeks                                                                                                                                                                                                                                | -0.07  | 0.838  | -0.71  | 0.58   | 0.02   | 0.912  | -0.3   | 0.33   | 0.22   | 0.235  | -0.14  | 0.59   | 0.02   | 0.912 | -0.36  | 0.4   |
| 52 weeks                                                                                                                                                                                                                                | -0.01  | 0.983  | -0.69  | 0.67   | 0.1    | 0.554  | -0.23  | 0.43   | 0.43   | 0.031  | 0.04   | 0.82   | -0.35  | 0.114 | -0.78  | 0.08  |
| Interaction term                                                                                                                                                                                                                        | 0.9895 |        |        |        | 0.9258 |        |        |        | 0.1571 |        |        |        | 0.1792 |       |        |       |
| BBQ: Back Belief Questionnaire, CI: Confidence Interval, LBP: Low Back Pain, RMDQ: Roland Morris Disability Questionnaire<br>Analyses were controlled for age, sex, baseline LBP intensity, baseline RMDQ score and previous treatment. |        |        |        |        |        |        |        |        |        |        |        |        |        |       |        |       |