**Supplemental material 3**

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| **SUPPLEMENTAL MATERIAL 3.** Summary of the main results of the study |
| **Baseline network**  |
| **Correlation stability of the centrality indices** |
| *Strength =* .67 / *Closeness =* .52 / *Between* *=* .21 |
| **Nodes with greatest strength centrality** |
| *Laugh* / *Enjoyment-PI* / *Average pain*  |
| **Nodes with greatest**  c**loseness centrality** |
| *Mood* / *Enjoyment-PI* / *Cheerful*  |
| **Nodes with greatest one-step expected influence** |
| *Laugh* / *Enjoyment-PI*  / *Average pain*  |
| **Nodes with greatest one-step expected influence** |
| *Laugh* /  *Enjoyment-PI* / *Average pain*  |
| **Minimum spanning tree most central nodes** |
| *Cheerful* / *Laugh / Enjoyment-PI* |
| **Baseline and post-treatment network comparison** |
| **Global strength**  |
| *Baseline mean strength* *=* 10.60 |
| *Post-treatment mean strength* *=* 11.86 |
| *S statistic =* 1.27, *p* < .001 |
| **Responders versus non-responders baseline network comparison** |
| **Global strength**  |
| *Non-responders baseline mean strength* *=* 10.76 |
| *Responders baseline mean strength* *=* 8.11 |
| *S statistic = 2*.65, *p* = .003 |
| **Responders baseline and post-treatment network comparison** |
| **Global strength**  |
| *Baseline responders mean strength* *=* 8.11 |
| *Post-treatment responders mean strength* *=* 12.31 |
| *S statistic =* 4.20, *p* < .001 |
| *Note.* We included the first three nodes with greatest centrality in each centrality index. PI = Pain interference.  |