

**Additional file 1.** Sensitivity analysis of table 2, including an outlier. Linear regression analysis and associations with Knee Injury Osteoarthritis Outcome Score, subscale Pain, (n=108).

|                                             | Univariate |                         |                  | Adjusted for BMI and number of pain sites |              |
|---------------------------------------------|------------|-------------------------|------------------|-------------------------------------------|--------------|
|                                             | n          | B (95% CI)              | p-value          | B (95% CI)                                | p-value      |
| Age, (years)                                | 108        | -0.216 (-0.607; 0.175)  | 0.276            |                                           |              |
| Sex                                         | 108        | -5.449 (-12.255;1.357)  | 0.115            |                                           |              |
| Body Mass Index (BMI), (kg/m <sup>2</sup> ) | 108        | -0.803 (-1.502; -0.105) | <b>0.025</b>     |                                           |              |
| MVIC of quadriceps (Newton)                 | 98         | -0.006 (-0.038;0.026)   | 0.698            |                                           |              |
| Number of pain sites, (0-18)                | 106        | -1.418 (-2.199; -0.638) | <b>&lt;0.001</b> |                                           |              |
| <b>Accelerometer measurements</b>           |            |                         |                  |                                           |              |
| <i>Daily steps</i>                          |            |                         |                  |                                           |              |
| Total <sup>†</sup>                          | 108        | 0.001 (-0.000;0.001)    | 0.073            | 0.000 (-0.000;0.001)                      | 0.331        |
| At work                                     | 108        | 0.000 (-0.001;0.001)    | 0.560            | 0.000 (-0.001;0.001)                      | 0.963        |
| Leisure on workdays                         | 108        | 0.001 (-0.000;0.002)    | 0.068            | 0.001 (-0.000;0.002)                      | 0.237        |
| <i>Upright position (minutes/day)</i>       |            |                         |                  |                                           |              |
| Total <sup>†</sup>                          | 108        | 0.041 (0.011;0.071)     | <b>0.008</b>     | 0.032 (0.004;0.061)                       | <b>0.028</b> |
| At work                                     | 108        | 0.005 (-0.023;0.033)    | 0.713            | 0.002 (-0.024;0.027)                      | 0.897        |
| Leisure on workdays                         | 108        | 0.087 (0.040;0.133)     | <b>&lt;0.001</b> | 0.072 (0.027;0.116)                       | <b>0.002</b> |
| <i>Stair walking, (minutes/day)</i>         |            |                         |                  |                                           |              |
| Total <sup>†</sup>                          | 108        | 0.166 (-0.336;0.669)    | 0.512            | -0.006 (-0.476;0.464)                     | 0.981        |
| At work                                     | 108        | -0.053 (-0.495;0.389)   | 0.814            | -0.164 (-0.567;0.239)                     | 0.422        |
| Leisure on workdays                         | 108        | 0.922 (-0.071;1.915)    | 0.068            | 0.775 (-0.128;1.697)                      | 0.092        |
| <i>Sitting/lying (minutes/day)</i>          |            |                         |                  |                                           |              |
| Total <sup>†</sup>                          | 108        | -0.029 (-0.062;0.005)   | 0.090            | -0.022 (-0.053;0.010)                     | 0.176        |
| At work                                     | 108        | 0.002 (-0.030;0.033)    | 0.902            | 0.002 (-0.027;0.030)                      | 0.908        |
| Leisure on workdays                         | 108        | -0.028 (-0.066;0.009)   | 0.137            | -0.027 (-0.061;0.007)                     | 0.119        |

**B** = unstandardized coefficient. **KOOS** = Knee injury and Osteoarthritis Outcome Score (0-100 worst-best). **MVIC** = Maximal Voluntary Isometric Contraction. **Daily steps** = average daily steps. **Upright position** = including standing, moving, walking, running and stair walking. **Sitting/lying** = (when awake) in sitting or lying position. <sup>†</sup>Including all activities during waking hours, both working days and days off. P-value in bold typeface ≤0.005.