**Supplementary File 1:** Table to illustrate the PEP-TALK trial participants demographics (analysed versus not analysed cohort).

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Participants analysed with complete OKS-PS at 6 months (n=83)** | | | **Participants excluded with no complete OKS-PS at 6 months (n=34)** | | | **Total trial participants (n=117)** | | | **p-value\*** |
| **N (%)** | **Mean** | **Range** | **N (%)** | **Mean** | **Range** | **N (%)** | **Mean** | **Range** |
| **Age** | 83 | 68.1 | (50-85) | 34 | 68.6 | (52-84) | 117 | 68.3 | (50-85) | 0.765 |
| **Gender** |  |  |  |  |  |  |  |  |  | 0.152 |
| Female | 55 (66.2) |  |  | 17 (50) |  |  | 72 (61.5) |  |  |  |
| Male | 28 (33.7) |  |  | 17 (50) |  |  | 45 (38.5) |  |  |  |
| **CCI (continuous)** | 83 | 2.8 | (1-6) | 34 | 3.1 | (1-6) | 117 | 2.9 | (1-6) | 0.249 |
| **CCI (dichotomised)** |  |  |  |  |  |  |  |  |  | 0.199 |
| 1-3 | 67 (80.7) |  |  | 23 (67.7) |  |  | 90 (76.9) |  |  |  |
| 4+ | 16 (19.3) |  |  | 11 (32.4) |  |  | 27 (23.1) |  |  |  |
| **AMTS** | 83 | 9.7 | (8-10) | 34 | 9.7 | (8-10) | 117 | 9.7 | (8-10) | 0.8319 |
| **BMI** |  |  |  |  |  |  |  |  |  | 0.139 |
| Healthy Weight (<25) | 9 (10.8) | 23.8 | (21.7-25.0) | 4 (11.8) | 23.2 | (22.8-23.5) | 13 (11.1) | 23.6 | (21.7-25.0) |  |
| Overweight (25-29.9) | 28 (33.7) | 27.8 | (25.2-29.9) | 5 (14.7) | 29.0 | (27.9-29.8) | 33 (28.2) | 28.0 | (25.2-29.9) |  |
| Obese (30-34.9) | 19 (32.5) | 32.5 | (30.3-34.8) | 16 (47.1) | 32.5 | (30.1-34.5) | 35 (29.9) | 32.5 | (30.1-34.8) |  |
| Morbidly Obese (>34.9) | 27 (38.8) | 38.8 | (35.1-48.9) | 8 (23.5) | 38.7 | (36.1-44.2) | 35 (29.9) | 38.8 | (35.1-48.9) |  |
| Missing |  |  |  | 1 (3.0) | 25 | (25-25) | 1 (0.9) | 25 | (25-25) |  |

\* Differences in continuous and categorical variables between the chronic pain and non-chronic pain groups were tested with a t-test and χ2 test, respectively – the p-values are not meant for formal statistical comparison.

AMTS, Abbreviated Mental Test Score, BMI, body mass index; CCI, Charlson Comorbidity Index.

**Supplementary File 2:** Table to illustrate the movement of participants in/out chronic pain groups between six and 12 months post-TKR.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **N (%) of participants moving from/to** | | **12 months** | | |
| **6 months** | *Total* | *Chronic pain group* | *Non-chronic pain* | *Missing* |
| *Chronic pain group* | 12 | 6 (50%) | 4 (33.3%) | 2 (16.7%) |
| *Non-Chronic pain* | 71 | 6 (8.5%) | 58 (81.7%) | 7 (9.9%) |
| *Missing* | 34 | 3 (8.8%) | 11 (32.4%) | 20 (58.8%) |
| Total 12 months |  | 15 | 73 | 29 |

**Supplementary File 3:** Trajectory of Oxford Knee Score Pain Subscale (OKS-PS) by chronic pain status as defined as OKS-PS at 6 months.

A graph of a number of months

Description automatically generated with medium confidence