**Supplemental Digital Content 4**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Prevalence of Moderate to Severe Knee Pain and Average Pain with Different Cut-off Values Before and After Total Knee Arthroplasty in the No-tourniquet and Tourniquet Groups | | | | | |
|  | | **No tourniquet** | **Tourniquet** | **OR**  **(95% CI)** | ***P* Value** |
| **Before operation** | |  |  |  |  |
| Average pain (BPI-sf) | |  |  |  |  |
|  | NRS ≥ 3 | 159/193 (82) | 169/198 (85) | 0.8 (0.5 to 1.4) | 0.425 |
|  | NRS ≥ 4 | 125/193 (65) | 140/198 (71) | 0.8 (0.5 to 1.2) | 0.209 |
|  | NRS ≥ 5 | 92/193 (48) | 103/198 (52) | 0.8 (0.6 to 1.2) | 0.390 |
| Moderate to severe knee pain (OKS) | | 144/195 (74) | 159/200 (80) | 0.7 (0.5 to 1.2) | 0.185 |
| **3 months after operation** | |  |  |  |  |
| Average pain (BPI-sf) | |  |  |  |  |
|  | NRS ≥ 3 | 83/192 (43) | 92/196 (47) | 0.9 (0.6 to 1.3) | 0.463 |
|  | NRS ≥ 4 | 53/192 (28) | 55/196 (28) | 1.0 (0.6 to 1.5) | 0.920 |
|  | NRS ≥ 5 | 37/192 (19) | 34/196 (17) | 1.1 (0.7 to 1.9) | 0.624 |
| Moderate to severe knee pain (OKS) | | 46/192 (24) | 47/197 (24) | 1.0 (0.6 to 1.6) | 0.981 |
| **12 months after operation** | |  |  |  |  |
| Average pain (BPI-sf) | |  |  |  |  |
|  | NRS ≥ 3 | 74/192 (39) | 70/194 (36) | 1.1 (0.7 to 1.7) | 0.617 |
|  | NRS ≥ 4 | 49/192 (26) | 45/194 (23) | 1.1 (0.7 to 1.8) | 0.595 |
|  | NRS ≥ 5 | 33/192 (17) | 25/194 (13) | 1.4 (0.8 to 2.5) | 0.238 |
| Moderate to severe knee pain (OKS) | | 13/192 (7) | 14/195 (7) | 0.9 (0.4 to 2.1) | 0.875 |
| Values present the number of patients/total (%). Patients assessed their average pain using BPI-sf with NRS (0 = no pain, 10 = worst imaginable pain) and their usual knee pain during the past four weeks using OKS with a 5-point scale (none, very mild, mild, moderate, and severe).  OR, odds ratio; BPI-sf, Brief Pain Inventory-short form; NRS, numerical rating scale; OKS, Oxford Knee Score. | | | | | |