**Appendix Table F38. Association between joint stability and alignment with functional performance**

| **Author, year****Study characteristics** | **Adjustment** | **Joint stability and alignment measure** | **Functional outcome** | **Regression model** | **Mean (95% CI)** |
| --- | --- | --- | --- | --- | --- |
| Thomas, 2008373Country: UKAge: >50Sample: 621 | Unadjusted | Giving way: Yes vs. No | WOMAC: Physical function | Cox regression | **1.33 (1.08; 1.64)** |
| Thomas, 2008373Country: UKAge: >50Sample: 621 | Unadjusted | Anteroposterior instability: Possible/definite vs. none | WOMAC: Physical function | Cox regression | 0.85 (0.60; 1.20) |
| Kauppila, 2009385Country: FinlandAge: >60Sample: 88 | BMI, gender, comorbidity, flexion and extension relative peak torque of the affected leg, stair test, 15m walk-test, WOMAC pain, malalignments, restricted ROM, and previous surgery of the lower extremity | Antero-posterior laxity (knee instability) of the knee | WOMAC: Physical function | Linear | **11.30 (3.21; 19.35)** |
| Kauppila, 2009385Country: FinlandAge: >60Sample: 88 | BMI, gender, comorbidity, flexion and extension relative peak torque of the affected leg, stair test, 15m walk-test, WOMAC pain, malalignments, restricted ROM, and previous surgery of the lower extremity, antero-posterior laxity (knee instability) | Antero-posterior laxity (knee instability) of the knee and WOMAC pain | WOMAC: Physical function | Linear | **-0.53 (-0.94; -0.13)** |
| Van Der Esch, 2006374Country: The NetherlandsAge: >40Sample: 86 | NR | Joint laxity (knee instability) | WOMAC: Physical function | Linear | **-1.04 (-1.84; -0.24)** |
| Thomas, 2008373Country: UKAge: >50Sample: 621 | Unadjusted | Intercondylar gap in standing (cm): >0 vs. 0 | WOMAC: Physical function | Cox regression | 0.93 (0.72; 1.19) |
| Thomas, 2008373Country: UKAge: >50Sample: 621 | Unadjusted | Intermalleolar gap in standing (cm): >0 vs. 0 | WOMAC: Physical function | Cox regression | 1.16 (0.93; 1.43) |
| Thomas, 2008373Country: UKAge: >50Sample: 621 | Unadjusted | Fixed flexion deformity: Yes vs. no | WOMAC: Physical function | Cox regression | 1.09 (0.80; 1.48) |
| Hunt, 2010375Country: NRAge: NRSample: 57 | Disease severity, symptoms(bilateral vs. unilateral), WOMAC pain, quadriceps torque | Lower extremity alignment | Balance performance (center of pressure path length) | Linear | **-2.73 (-4.74; -0.72)** |
| Sharma, 2003377Country: U.S.Age: NRSample: 257 | Age, BMI, knee pain intensity, and disease severity (higher K/L grade of the 2 knees) | Laxity (knee instability), degrees | WOMAC: Physical function  | Logistic | **1.58/30 (1.04; 2.40)** |

Bold- statistically significant results

NR –Not reported