**Appendix Table F44. Association between self reported health outcomes and poor functional status**

| **Author, year**  **Study characteristics** | **Adjustment** | **Intermediate outcome** | **Clinical outcome** | **Regression model** | **Regression coefficient (95% CI)** |
| --- | --- | --- | --- | --- | --- |
| Thomas, 2008373 Country: UK Age: >50 Sample: 621 | Unadjusted | Self-reported swelling in past month: Yes vs. No | Poor WOMAC functional outcome | Cox regression | **1.27 (1.03; 1.56)** |
| Thomas, 2008373 Country: UK Age: >50 Sample: 621 | Unadjusted | Self-reported dramatic swelling: Yes vs. No | Poor WOMAC functional outcome | Cox regression | 1.09 (0.83; 1.44) |
| Thomas, 2008373 Country: UK Age: >50 Sample: 621 | BMI, age, chronic pain grade, inactivity gelling, bilateral knee pain, duration of morning stiffness, local tender point count, single-leg standing balance, prevalent knee radiographic OA | Anxiety (0-21): Possible (8-11) vs. none (0-7) | Poor WOMAC functional outcome | Cox regression | **1.29 (1.01; 1.64)** |
| Thomas, 2008373 Country: UK Age: >50 Sample: 621 | BMI, age, chronic pain grade, inactivity gelling, bilateral knee pain, duration of morning stiffness, local tender point count, single-leg standing balance, prevalent knee radiographic OA | Anxiety (0-21): Probable (12-21) vs. none (0-7) | Poor WOMAC functional outcome | Cox regression | 1.31 (0.94; 1.82) |
| Rejeski, 1998369 Country: U.S. Age: NR Sample: 439 | Baseline knee pain, 18-month knee pain, 18-month self-efficacy, baseline stair climb time | Baseline Self-efficacy | Effect of treatment on stair climb time | Linear | **0.02 (0.001; 0.04)** |
| Wolfe, 1999386 Country: U.S. Age: NR Sample: 625 | Age, sex | Depression | WOMAC: Physical function | Linear | **3.30 (1.85; 4.75)** |
| Wolfe, 1999386 Country: U.S. Age: NR Sample: 625 | Age, sex | Depression | WOMAC: Stiffness | Linear | **0.27 (0.07; 0.47)** |
| Wolfe, 1999386 Country: U.S. Age: NR Sample: 625 | Age, sex | Fatigue | WOMAC: Stiffness | Linear | **2.19 (1.64; 2.74)** |
| Wolfe, 1999386 Country: U.S. Age: NR Sample: 625 | Age, sex | Fatigue | WOMAC: Physical function | Linear | **17.58 (13.62; 21.54)** |
| Sharma, 2003377 Country: U.S. Age: NR Sample: 257 | Age, BMI, knee pain intensity, and disease severity (higher K/L grade of the 2 knees) | Mental health score (SF-36 mental health) | WOMAC: Physical function | Logistic | **0.58/5 points (0.39; 0.86)** |
| Sharma, 2003377 Country: U.S. Age: NR Sample: 257 | Age, BMI, knee pain intensity, and disease severity (higher K/L grade of the 2 knees) | Role functioning emotional score (SF-36 role emotional) | Chair-stand performance (Time required for 5 repetitions of rising from a chair and sitting down, using the protocol. | Logistic | 0.99/1 unit (0.75; 1.32) |
| Sharma, 2003377 Country: U.S. Age: NR Sample: 257 | Age, BMI, knee pain intensity, and disease severity (higher K/L grade of the 2 knees) | Self-efficacy score (Arthritis Self-Efficacy Scale) | WOMAC: Physical function | Logistic | **0.80/5 points (0.65; 0.98)** |
| Sharma, 2003377 Country: U.S. Age: NR Sample: 257 | Age, BMI, knee pain intensity, and disease severity (higher K/L grade of the 2 knees) | Self-efficacy score (Arthritis Self-Efficacy Scale) | Chair-stand performance (Time required for 5 repetitions of rising from a chair and sitting down, using the protocol | Logistic | 0.86/5 points (0.68; 1.09) |
| Sharma, 2003377 Country: U.S. Age: NR Sample: 257 | Age, BMI, knee pain intensity, and disease severity (higher K/L grade of the 2 knees) | Social support score (Medical Outcomes Study Social Support Survey) | WOMAC: Physical function | Logistic | **0.85/10 points (0.73; 0.98)** |
| O’Reilly, 1998380  Country: UK Age: >40 Sample: 300 each of cases and controls | Age, sex, BMI, depression, MVC, activation (%), radiographic score | Anxiety: HAD score >=8 vs. <8 | Disability (WOMAC function score >19) | Logistic | 1.91 (0.89; 4.05) |
| O’Reilly, 1998380 Country: UK Age: >40 Sample: 300 each of cases and controls | Age, sex, BMI, depression, MVC, activation (%), radiographic score | Anxiety: HAD score >=8 vs. <8 | Disability (SF-36 function score <90) | Logistic | 2.04 (0.95; 4.36) |
| O’Reilly, 1998380 Country: UK Age: >40 Sample: 300 each of cases and controls | Age, sex, BMI, depression, MVC, activation, radiographic score | Anxiety | WOMAC: Physical function | Linear | **0.43 (0.08; 0.78)** |
| O’Reilly, 1998380 Country: UK Age: >40 Sample: 300 each of cases and controls | Age, sex, BMI, anxiety, MVC, activation (%), radiographic score | Depression: HAD score ≥8 vs. <8 | Disability (WOMAC function score >19) | Logistic | **6.15 (2.10; 17.98)** |
| O’Reilly, 1998380 Country: UK Age: >40 Sample: 300 each of cases and controls | Age, sex, BMI, anxiety, MVC, activation (%), radiographic score | Depression: HAD score ≥8 vs. <8 | Disability (SF-36 function score <90) | Logistic | 8.27 (0.91; 83.94) |
| O’Reilly, 1998380 Country: UK Age: >40 Sample: 300 each of cases and controls | Age, sex, BMI, anxiety, MVC, activation, radiographic score | Depression | WOMAC: Physical function | Linear | **2.15 (2.01; 2.29)** |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*Center for Epidemiologic Studies Depression Scale depression score | WOMAC: Pain | Linear | **0.02 (0.01 to 0.03)** |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*Center for Epidemiologic Studies Depression Scale depression score | WOMAC Disability | Linear | **0.05 (0.02 to 0.09)** |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*Center for Epidemiologic Studies Depression Scale depression score | 20-m Walk | Linear | **-0.001 (-0.001 to -0.0004)** |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*Center for Epidemiologic Studies Depression Scale depression score | Repeated chair stand | Linear | **-0.001 (-0.001 to -0.0001)** |
| Riddle, 2011389 Country: U.S.  Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*Center for Epidemiologic Studies Depression Scale dichotomized depression score (>16) | WOMAC: Pain | Linear | **0.59 (0.18 to 1.01)** |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*Center for Epidemiologic Studies Depression Scale dichotomized depression score (>16) | WOMAC Disability | Linear | **1.93 (0.59 to 3.27)** |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*Center for Epidemiologic Studies Depression Scale dichotomized depression score (>16) | 20-m Walk | Linear | -0.01 (-0.03 to 0.01) |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*Center for Epidemiologic Studies Depression Scale dichotomized depression score (>16) | Repeated chair stand | Linear | -0.01 (-0.03 to 0.00) |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*SF-12 ( Mental Health Component Summary) | WOMAC: Pain | Linear | -0.01 (-0.02 to 0.00) |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*SF-12 ( Mental Health Component Summary) | WOMAC Disability | Linear | -0.02 (-0.05 to 0.01) |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*SF-12 ( Mental Health Component Summary) | 20-m Walk | Linear | 0.0004 (-0.01 to 0.00) |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*SF-12 ( Mental Health Component Summary) | Repeated chair stand | Linear | -0.00008 (-0.0004 to 0.0010) |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*confidence measure from Knee injury and Osteoarthritis Outcome Score | WOMAC: Pain | Linear | 0.06 (-0.02 to 0.15) |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*confidence measure from Knee injury and Osteoarthritis Outcome Score | WOMAC Disability | Linear | 0.21 (-0.06 to 0.48) |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*confidence measure from Knee injury and Osteoarthritis Outcome Score | 20-m Walk | Linear | 0.00 (-0.01 to 0.00) |
| Riddle, 2011389 Country: U.S. Age: >45 Sample: 3,407 | Baseline outcome score in quartiles, sex, gender, race, comorbidity, income, knee OA status, BMI, presence of generalized OA, longest knee pain duration, history of knee injury, PASE score, most severe varus/valgus alignment, weakest knee extensor strength, most severe knee flexor contracture, time | Time\*confidence measure from Knee injury and Osteoarthritis Outcome Score | Repeated chair stand | Linear | 0.00 (0.00 to 0.00) |
| Snijders, 2011390 Country: The Netherlands Age: >50 Sample: 231 | Age, gender, BMI, index joint (knee or hip), duration of complaints, K&L score and past treatment. | WOMAC: Physical function | Checklist Individual Strength questionnaire fatigue | Linear | **0.38 (0.27 to 0.50)** |
| Snijders, 2011390 Country: The Netherlands Age: >50 Sample: 231 | Age, gender, BMI, index joint (knee or hip), duration of complaints, K&L score and past treatment. | WOMAC: Pain | Checklist Individual Strength questionnaire fatigue | Linear | -0.08 (-0.20 to 0.04) |
| Snijders, 2011390 Country: The Netherlands Age: >50 Sample: 231 | Age, gender, BMI, index joint (knee or hip), duration of complaints, K&L score and past treatment. | WOMAC: Physical function | Checklist Individual Strength questionnaire activity | Linear | **0.14 (0.08 to 0.19)** |
| Snijders, 2011390 Country: The Netherlands Age: >50 Sample: 231 | Age, gender, BMI, index joint (knee or hip), duration of complaints, K&L score and past treatment. | WOMAC: Pain | Checklist Individual Strength questionnaire activity | Linear | -0.06 (-0.11 to 0.01) |
| Snijders, 2011390 Country: The Netherlands Age: >50 Sample: 231 | Age, gender, BMI, index joint (knee or hip), duration of complaints, K&L score and past treatment. | WOMAC: Physical function | Checklist Individual Strength questionnaire fatigue | Linear | **0.12 (0.01 to 0.23)** |
| Snijders, 2011390 Country: The Netherlands Age: >50 Sample: 231 | Age, gender, BMI, index joint (knee or hip), duration of complaints, K&L score and past treatment. | WOMAC: Pain | Checklist Individual Strength questionnaire fatigue | Linear | -0.04 (-0.14 to 0.06) |
| Snijders, 2011390 Country: The Netherlands Age: >50 Sample: 231 | Age, gender, BMI, index joint (knee or hip), duration of complaints, K&L score and past treatment. | WOMAC: Physical function | Checklist Individual Strength questionnaire activity | Linear | **0.06 (0.01 to 0.10)** |
| Snijders, 2011390 Country: The Netherlands Age: >50 Sample: 231 | Age, gender, BMI, index joint (knee or hip), duration of complaints, K&L score and past treatment. | WOMAC: Pain | Checklist Individual Strength questionnaire activity | Linear | **0.04 (0.00 to 0.09)** |

Bold- statistically significant results