**Appendix Table F50. Validity of the functional tests in patients with knee OA**

| **Author, year Index; Reference methods** | **Country; Size**  **Mean age; % of females** | **Validity** | **Estimate, significance** |
| --- | --- | --- | --- |
| Barker, 2004393 Index: Sit-stand Reference: Power (Leg extensor power) | UK Size: 123 Mean age: 69.5 % of females: 53.7 | Construct validity | Spearman's rank correlation coefficient 0.392 P value: <0.01 |
| Barker, 2004393 Index: Sit-stand Reference: VAS: Pain | UK Size: 123 Mean age: 69.5 % of females: 53.7 | Construct validity | Spearman's rank correlation coefficient 0.383 P value: <0.01 |
| Barker, 2004393 Index: Sit-stand Reference: WOMAC: Pain subscale | UK Size: 123 Mean age: 69.5 % of females: 53.7 | Construct validity | Spearman's rank correlation coefficient 0.292 P value: <0.01 |
| Piva, 2004404 Index: Get Up and Go Test Reference: ADLS (Activities of Daily Livingof the Knee Outcome Surgery) | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient -0.34 P value: <0.001 |
| Piva, 2004404 Index: Get Up and Go Test Reference: SF-36: Bodily pain | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient -0.27 P value: 0.005 |
| Piva, 2004404 Index: Get Up and Go Test Reference: SF-36: General health | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient -0.28 P value: 0.005 |
| Piva, 2004404 Index: Get Up and Go Test Reference: SF-36: Mental health | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient -0.34 P value: <0.001 |
| Piva, 2004404 Index: Get Up and Go Test Reference: SF-36: Physical function | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient -0.44 P value: <0.001 |
| Piva, 2004404 Index: Get Up and Go Test Reference: SF-36: Role-emotional | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient -0.23 P value: 0.021 |
| Piva, 2004404 Index: Get Up and Go Test Reference: SF-36: Role-physical | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient -0.15 P value: 0.128 |
| Piva, 2004404 Index: Get Up and Go Test Reference: SF-36: Social function | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient -0.17 P value: 0.081 |
| Piva, 2004404 Index: Get Up and Go Test Reference: SF-36: Vitality | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient -0.13 P value: 0.195 |
| Piva, 2004404 Index: Get Up and Go Test Reference: WOMAC: Likert version | U.S. Size: 105 Mean age: 62 % of females: 76.19 | Concurrent validity | Pearson Product-Moment correlation coefficient 0.39 P value: <0.001 |
| Lankhorst, 198292 Index: Number of steps Reference: Endurance and maximal impulse | The Netherlands Size: 24 Mean age: NR % of females: NR | Construct validity | Factor analysis -0.031 P value: NR |
| Lankhorst, 198292 Index: Number of steps Reference: Maximal isometric torque | The Netherlands Size: 24 Mean age: NR % of females: NR | Construct validity | Factor analysis 0.609 P value: NR |
| Lankhorst, 198292 Index: Stair climbing Reference: Endurance and maximal impulse | The Netherlands Size: 24 Mean age: NR % of females: NR | Construct validity | Factor analysis 0.297 P value: NR |
| Lankhorst, 198292 Index: Stair climbing Reference: Maximal isometric torque | The Netherlands Size: 24 Mean age: NR % of females: NR | Construct validity | Factor analysis 0.034 P value: NR |
| Steultjens, 1999405 Index: IRGL dexterity Reference: Keefe and Block (adapted version) + subscales of 4 questionnaires (The Influence of Rheumatic Disease on General Health and Lifestyle mobility subscale that is a Dutch adaptation of the Arthritis Impact Measurement Scales; Nottingham Health Profile mobility subscale; EuroQoL mobility subscale; QR & S questionnaire (Questionnaire Rising and Sitting Down)) | Netherlands Size: 198 Mean age: 68 % of females: 78.3 | Factor analysis | Factor analysis 0.11 P value: NR |
| Steultjens, 1999405 Index: IRGL dexterity Reference: The Influence of Rheumatic Disease on General Health and Lifestyle mobility subscale and EuroQoL self-care subscale that measures self-reported disability in self-care | Netherlands Size: 198 Mean age: 68 % of females: 78.3 | Factor analysis | Factor analysis 0.67 P value: NR |

Abbreviations:

J-MAP: Joint-Specific Multidimensional Assessment of Pain

SF-36: 36-Item Short Form Health Survey

KPS: Knee Pain Scale

CES –D: Center for Epidemiologic Studies Depression Scale

FAST: Fitness and Arthritis in Seniors Trial

ADL: Activities of Daily Living

IADL: Instrumental Activities of Daily Living

KPSI: Knee Patient -Specific Index

LEAP: Lower Extremity Activity Profile

MPQ-PRI: McGill Pain Questionnaire- Pain Rating Index

WIQ: Walking Impairment Questionnaire

AIMS2-SF: Short form Arthritis Impact Measurement Scale 2

EQ-5D: EuroQoL (first part consisting of 5 questions covering 5 dimensions)

MCS: Mental Component Summary

EQ-VAS: EuroQoL-Visual Analogue Scale

HAQ: DI: Health Assessment Questionnaire: Disability Index  
WOMAC: Western Ontario McMaster Universities Osteoarthritis Index

HAQ: Health Assessment Questionnaire

AAS: Adjusted Activity Score

VAS: Visual Analogue Scale

TUG: Timed Up and Go Test

MAS: Maximal Activity Score

IRGL: The Influence of Rheumatic Disease on General Health and Lifestyle mobility subscale