Hip disability and Osteoarthritis Outcome Score (HOOS) Patient Reported Measure

Considerations	
Which type of TJA is it appropriate for?	ТНА
What part of the TJA continuum is it appropriate	Pre-op Post-acute
for? What domain(s) does it measure within the ICF?	Active Living Body function, Activity
Who completes it?	Patient
What does it measure?	40-item tool that assesses pain, symptoms, function in daily living (ADL), function in sport and recreation (Sport/Rec) and quality of life (QoL) over the past week. ^{1,2,5}
What equipment is required?	Paper version: paper copy of HOOS, pen Electronic version: computer with internet access
How long does it take?	~15-20 mins to complete and score ⁵
How do I do it?	Instructions available at: <u>www.koos.nu</u>
How good is it?	Validity: Construct - good with SF-36, Oxford Hip Score, pain VAS. ^{3,5} Reliability: Test-retest - good to excellent ^{1, 5} Responsiveness: Able to detect small changes in hip OA in different age groups and more responsive than WOMAC pain and stiffness ³ Floor/ceiling effects: Floor effects more common in Sport/Rec subscale and ceiling effects in pain subscale reported 6 months after THA ^{3,5}
How is it scored?	Paper version: A spreadsheet for scoring is available at <u>www.koos.nu</u> Items scored from 0 to 4. Scores are summarized for each subscale and transformed to 0-100 scale. ⁵ A total score is not recommended. ¹ Electronic version can be scored at: <u>www.orthopaedicscore.com/scorepages/hip_disability_osteoarthritis_outcome_score_hoos.html</u>
What do the results mean?	Higher score = better. Score of 100 in each subscale = no hip-related problems; 0 = extreme problems ¹ Minimal clinically important improvement (MCII) 1 year after THA is 24 for pain subscale and 17 for QoL subscale; however, MCII values are higher when other calculation methods are used. ⁶ No MDC or MCID values or norms available for TJA population, hip or knee OA or community dwelling older adults. ⁴
Where can I get it?	Paper version available at: <u>www.koos.nu</u> Online version available at: <u>www.orthopaedicscore.com/scorepages/hip disability osteoarthritis outcome score hoos.html</u> Multiple language versions available. A 5-item short version is available (HOOS-PS) ¹

Developed by the BC Physical Therapy Total Joint Arthroplasty and Outcome Measures Knowledge Translation Task Force: Dr. Marie Westby, Ronda Field, Maureen Duggan, Dolores Langford, Robyn Laytham, Steven Longstaff, Lauren Welch, Alison Hoens. March 2014. A Physical Therapy Knowledge Broker project supported by: UBC Department of Physical Therapy, Physiotherapy Association of BC, Vancouver Coastal Research Institute and Providence Healthcare Research Institute.

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References

- 1. Website with users guide: <u>www.koos.nu/</u>
- 2. www.orthopaedicscore.com/scorepages/hip_disability_osteoarthritis_outcome_score_hoos.html
- 3. Nilsdotter A-K, Lohmander LS, et al. Hip disability and Osteoarthritis Outcome Score (HOOS) Validity and responsiveness in total hip replacement. BMC Musculoskel Disorders 2003;4:10.
- 4. Escobar A, Quintana JM, et al. Responsiveness and clinically important differences for the WOMAC and SF036 after total knee replacement. Osteoarthritis Cartilage 2007;15(3):273-80.
- 5. Nilsdotter A, Bremander A. Measures of hip function and symptoms. Patient Outcomes in Rheumatology, A Review of Measures. Arthritis Care Res 2011;63(S11);S200.
- 6. Paulsen A, Roos EM, et al. Minimal clinically important improvement (MCII) and patientacceptable symptom state (PASS) in total hip arthroplasty (THA) patients 1 year postoperatively. Acta Orthopaedica 2014;85(1):39-48.



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