

**The following content was supplied by the authors as supporting material and has not been copy-edited or verified by JBJS.**

Supplemental Material 1.

### **Search strategy (08/11/2017)**

#### **Publication date from 2013/01/01 to 2016/12/31**

(((metaanalyses[Title/Abstract] OR meta-analysis[Title/Abstract] OR "meta analyses"[Title/Abstract] OR "meta analysis"[Title] OR meta analyses[Title/Abstract] OR metaanalysis[Title/Abstract]) OR "systematic review"[Title]) OR meta-regression[Title] OR metaregression[Title] OR meta-analysis[Publication Type])) AND (((((((("The Journal of bone and joint surgery. American volume"[Journal])) OR "The American journal of sports medicine"[Journal]) OR ("Clinical orthopaedics and related research"[Journal])) OR ("Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association"[Journal])) OR "spine"[Journal]) OR "The Journal of arthroplasty"[Journal]) OR ("Journal of shoulder and elbow surgery"[Journal])) OR "Knee surgery, sports traumatology, arthroscopy : official journal of the ESSKA"[Journal]) OR ("European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society"[Journal])) OR "International orthopaedics"[Journal] Exclude IPD, Registry, animals, cadaver

## References of Studies Included in Publication Bias Assessments

1. Andriolo L, Filardo G, Kon E, et al. Revision anterior cruciate ligament reconstruction: clinical outcome and evidence for return to sport. *Knee Surg Sports Traumatol Arthrosc.* 2015;23(10):2825-2845.
2. Avenell A, Mak JCS, O'Connell D. Vitamin D and vitamin D analogues for preventing fractures in post-menopausal women and older men. *Cochrane Database Syst Rev.* 2014;(4):CD000227.
3. Beckmann NA, Weiss S, Klotz MCM, Gondan M, Jaeger S, Bitsch RG. Loosening after acetabular revision: comparison of trabecular metal and reinforcement rings. A systematic review. *J Arthroplasty.* 2014;29(1):229-235.
4. Beckmann NA, Mueller S, Gondan M, Jaeger S, Reiner T, Bitsch RG. Treatment of severe bone defects during revision total knee arthroplasty with structural allografts and porous metal cones-a systematic review. *J Arthroplasty.* 2015;30(2):249-253.
5. Beckwée D, Vaes P, Shahabpour M, Muyldermans R, Rommers N, Bautmans I. The Influence of Joint Loading on Bone Marrow Lesions in the Knee: A Systematic Review With Meta-analysis. *Am J Sports Med.* 2015;43(12):3093-3107.
6. M Buckland D, Sadoghi P, Wimmer MD, et al. Meta-analysis on biomechanical properties of meniscus repairs: are devices better than sutures? *Knee Surg Sports Traumatol Arthrosc.* 2015;23(1):83-89.
7. Chee MYK, Chen Y, Pearce CJ, et al. Outcome of Patellar Tendon Versus 4-Strand Hamstring Tendon Autografts for Anterior Cruciate Ligament Reconstruction: A Systematic Review and Meta-analysis of Prospective Randomized Trials. *Arthroscopy.* 2017;33(2):450-463.
8. Desai N, Björnsson H, Musahl V, et al. Anatomic single- versus double-bundle ACL reconstruction: a meta-analysis. *Knee Surg Sports Traumatol Arthrosc.* 2014;22(5):1009-1023.
9. Hewison CE, Tran MN, Kaniki N, Remtulla A, Bryant D, Getgood AM. Lateral Extra-articular Tenodesis Reduces Rotational Laxity When Combined With Anterior Cruciate Ligament Reconstruction: A Systematic Review of the Literature. *Arthroscopy.* 2015;31(10):2022-2034.
10. Higgins BT, Barlow DR, Heagerty NE, Lin TJ. Anterior vs. posterior approach for total hip arthroplasty, a systematic review and meta-analysis. *J Arthroplasty.* 2015;30(3):419-434.
11. Houwert RM, Smeeing DPJ, Ahmed Ali U, Hietbrink F, Kruyt MC, van der Meijden OA. Plate fixation or intramedullary fixation for midshaft clavicle fractures: a systematic review and meta-analysis of randomized controlled trials and observational studies. *J Shoulder Elbow Surg.* 2016;25(7):1195-1203.
12. Kamper SJ, Ostelo RWJG, Rubinstein SM, et al. Minimally invasive surgery for lumbar disc herniation: a systematic review and meta-analysis. *Eur Spine J.* 2014;23(5):1021-1043.
13. Kang J, Shi C, Gu Y, Yang C, Gao R. Factors that may affect outcome in cervical artificial disc replacement: a systematic review. *Eur Spine J.* 2015;24(9):2023-2032.
14. Keurentjes JC, Pijls BG, Van Tol FR, et al. Which implant should we use for primary total hip replacement? A systematic review and meta-analysis. *J Bone Joint Surg Am.* 2014;96:79-97.

15. Kim HJ, Suh DH, Yang JH, et al. Total ankle arthroplasty versus ankle arthrodesis for the treatment of end-stage ankle arthritis: a meta-analysis of comparative studies. *Int Orthop*. 2017;41(1):101-109.
16. Kim TK, Chang CB, Koh IJ. Practical issues for the use of tranexamic acid in total knee arthroplasty: a systematic review. *Knee Surg Sports Traumatol Arthrosc*. 2014;22(8):1849-1858.
17. Li Y-L, Wu Q, Ning G-Z, et al. No difference in clinical outcome between fixed- and mobile-bearing TKA: a meta-analysis. *Knee Surg Sports Traumatol Arthrosc*. 2014;22(3):565-575.
18. Lieberman JR, Engstrom SM, Solovyova O, Au C, Grady JJ. Is intra-articular hyaluronic acid effective in treating osteoarthritis of the hip joint? *J Arthroplasty*. 2015;30(3):507-511.
19. Liu X, Wang Y, Qiu G, Weng X, Yu B. A systematic review with meta-analysis of posterior interbody fusion versus posterolateral fusion in lumbar spondylolisthesis. *Eur Spine J*. 2014;23(1):43-56.
20. Ma Z, Ma X, Yang H, Guan X, Li X. Anterior cervical discectomy and fusion versus cervical arthroplasty for the management of cervical spondylosis: a meta-analysis. *Eur Spine J*. 2017;26(4):998-1008.
21. Medina O, Arom GA, Yeraniosian MG, Petrigliano FA, McAllister DR. Vascular and nerve injury after knee dislocation: a systematic review. *Clin Orthop Relat Res*. 2014;472(9):2621-2629.
22. Meijer MF, Reininga IHF, Boerboom AL, Bulstra SK, Stevens M. Does imageless computer-assisted TKA lead to improved rotational alignment or fewer outliers? A systematic review. *Clin Orthop Relat Res*. 2014;472(10):3124-3133.
23. Negahban H, Mazaheri M, Kingma I, van Dieën JH. A systematic review of postural control during single-leg stance in patients with untreated anterior cruciate ligament injury. *Knee Surg Sports Traumatol Arthrosc*. 2014;22(7):1491-1504.
24. Pavon JM, Adam SS, Razouki ZA, et al. Effectiveness of Intermittent Pneumatic Compression Devices for Venous Thromboembolism Prophylaxis in High-Risk Surgical Patients: A Systematic Review. *J Arthroplasty*. 2016;31(2):524-532.
25. Peersman G, Stuyts B, Vandenberghe T, Cartier P, Fennema P. Fixed- versus mobile-bearing UKA: a systematic review and meta-analysis. *Knee Surg Sports Traumatol Arthrosc*. 2015;23(11):3296-3305.
26. Rebal BA, Babatunde OM, Lee JH, Geller JA, Patrick DA, Macaulay W. Imageless computer navigation in total knee arthroplasty provides superior short term functional outcomes: a meta-analysis. *J Arthroplasty*. 2014;29(5):938-944.
27. Riboh JC, Saltzman BM, Yanke AB, Fortier L, Cole BJ. Effect of Leukocyte Concentration on the Efficacy of Platelet-Rich Plasma in the Treatment of Knee Osteoarthritis. *Am J Sports Med*. 2016;44(3):792-800.
28. Santesso N, Carrasco-Labra A, Brignardello-Petersen R. Hip protectors for preventing hip fractures in older people. *Cochrane Database Syst Rev*. 2014;(3):CD001255.
29. Saragiotto BT, Maher CG, Yamato TP, et al. Motor Control Exercise for Nonspecific Low Back Pain: A Cochrane Review. *Spine*. 2016;41(16):1284-1295.
30. Schneider DK, Grawe B, Magnussen RA, et al. Outcomes After Isolated Medial Patellofemoral Ligament Reconstruction for the Treatment of Recurrent Lateral Patellar Dislocations: A Systematic Review and Meta-analysis. *Am J Sports Med*. 2016;44(11):2993-3005.

31. Si H-B, Zeng Y, Shen B, et al. The influence of body mass index on the outcomes of primary total knee arthroplasty. *Knee Surg Sports Traumatol Arthrosc.* 2015;23(6):1824-1832.
32. Song J-G, Kang S-B, Oh S-H, et al. Medial Soft-Tissue Realignment Versus Medial Patellofemoral Ligament Reconstruction for Recurrent Patellar Dislocation: Systematic Review. *Arthroscopy.* 2016;32(3):507-516.
33. Towle KM, Monnot AD. An Assessment of Gender-Specific Risk of Implant Revision After Primary Total Hip Arthroplasty: A Systematic Review and Meta-analysis. *J Arthroplasty.* 2016;31(12):2941-2948.
34. van Bodegom-Vos L, Voorn VM, So-Osman C, et al. Cell Salvage in Hip and Knee Arthroplasty: A Meta-Analysis of Randomized Controlled Trials. *J Bone Joint Surg Am.* 2015;97(12):1012-1021.
35. Wiggins AJ, Grandhi RK, Schneider DK, Stanfield D, Webster KE, Myer GD. Risk of Secondary Injury in Younger Athletes After Anterior Cruciate Ligament Reconstruction: A Systematic Review and Meta-analysis. *Am J Sports Med.* 2016;44(7):1861-1876.
36. Woodmass JM, Romatowski NPJ, Esposito JG, Mohtadi NGH, Longino PD. A systematic review of peroneal nerve palsy and recovery following traumatic knee dislocation. *Knee Surg Sports Traumatol Arthrosc.* 2015;23(10):2992-3002.
37. Wyles CC, Jimenez-Almonte JH, Murad MH, et al. There Are No Differences in Short- to Mid-term Survivorship Among Total Hip-bearing Surface Options: A Network Meta-analysis. *Clin Orthop Relat Res.* 2015;473(6):2031-2041.
38. Xiao S-W, Jiang H, Yang L-J, Xiao Z-M. Anterior cervical discectomy versus corpectomy for multilevel cervical spondylotic myelopathy: a meta-analysis. *Eur Spine J.* 2015;24(1):31-39.
39. Yang G, Huang W, Xie W, et al. Patellar non-eversion in primary TKA reduces the complication rate. *Knee Surg Sports Traumatol Arthrosc.* 2016;24(3):921-930.
40. Yun C, Shen CL. Anterior release for Scheuermann's disease: a systematic literature review and meta-analysis. *Eur Spine J.* 2017;26(3):921-927.
41. Zhang Y, Xu C, Dong S, Shen P, Su W, Zhao J. Systemic Review of Anatomic Single- Versus Double-Bundle Anterior Cruciate Ligament Reconstruction: Does Femoral Tunnel Drilling Technique Matter? *Arthroscopy.* 2016;32(9):1887-1904.