

Références

Injections corticostéroïdes en musculosquelettique

**En gras : littérature non-spécifique à une articulation/structure*

**Condition/structure soulignée*

1. **Abate, M., Salini, V., Schiavone, C., & Andia, I. (2017). Clinical benefits and drawbacks of local corticosteroids injections in tendinopathies. *Expert Opinion on Drug Safety*, 16(3), 341-349.**
2. Ayekoloye, C. I., & Nwangwu, O. (2020). Ultrasound-Guided Versus Anatomic Landmark-Guided Steroid Injection of the Subacromial Bursa in the Management of Subacromial Impingement: A Systematic Review of Randomised Control Studies. *Indian Journal of Orthopaedics*, 54(1), 10-19.
3. Ayub, S., Kaur, J., Hui, M., Espahbodi, S., Hall, M., Doherty, M., & Zhang, W. (2021). Efficacy and safety of multiple intra-articular corticosteroid injections for osteoarthritis—a systematic review and meta-analysis of randomized controlled trials and observational studies. *Rheumatology*, 60(4), 1629-1639.
4. **Benzon, H. T., Provenzano, D. A., Nagpal, A., Souza, D., Eckmann, M. S., Nelson, A. M., ... & FitzGerald, J. D. (2025). Use and safety of corticosteroid injections in joints and musculoskeletal soft tissue: guidelines from the American Society of Regional Anesthesia and Pain Medicine, the American Academy of Pain Medicine, the American Society of Interventional Pain Physicians, the International Pain and Spine Intervention Society, and the North American Spine Society. *Regional Anesthesia & Pain Medicine*.**
5. Berthelot, J. M., Le Goff, B., & Maugars, Y. (2013). Side effects of corticosteroid injections: what's new?. *Joint bone spine*, 80(4), 363-367.
6. **Bilsborough Smith, C., Baker, D., Botchu, R., Cairns, M., Chester, R., Dean, B., ... & Lewis, J. (2023). Corticosteroid injections for non-spinal musculoskeletal conditions. Consideration of local and systemic adverse drug reactions and side effects. *New Zealand Journal of Physiotherapy*.**
7. **Brinks, A., Koes, B. W., Volkers, A. C., Verhaar, J. A., & Bierma-Zeinstra, S. M. (2010). Adverse effects of extra-articular corticosteroid injections: a systematic review. *BMC musculoskeletal disorders*, 11, 1-11.**
8. Brinks, A., van Rijn, R. M., Willemsen, S. P., Bohnen, A. M., Verhaar, J. A., Koes, B. W., & Bierma-Zeinstra, S. M. (2011). Corticosteroid injections for greater trochanteric pain syndrome: a randomized controlled trial in primary care. *The Annals of Family Medicine*, 9(3), 226-234.
9. **Compagnoni, R., Ravaglia, R., & Randelli, P. (2024). Contraindications and Potential Side Effects of Injections. In *Musculoskeletal Injections Manual: Basics, Techniques and Injectable Agents* (pp. 15-19). Cham: Springer Nature Switzerland.**
10. Cho, C. H., Min, B. W., Bae, K. C., Lee, K. J., & Kim, D. H. (2021). A prospective double-blind randomized trial on ultrasound-guided versus blind intra-articular corticosteroid injections for primary frozen shoulder. *The Bone & Joint Journal*, 103(2), 353-359.
11. Cole, B. F., Peters, K. S., Hackett, L., & Murrell, G. A. (2016). Ultrasound-guided versus blind subacromial corticosteroid injections for subacromial impingement syndrome: a randomized, double-blind clinical trial. *The American journal of sports medicine*, 44(3), 702-707.
12. Cook, T., & Lewis, J. (2019). Rotator cuff-related shoulder pain: to inject or not to inject?. *journal of orthopaedic & sports physical therapy*, 49(5), 289-293.
13. Cook, T., Lowe, C. M., Maybury, M., & Lewis, J. S. (2018). Are corticosteroid injections more beneficial than anaesthetic injections alone in the management of rotator cuff-related shoulder pain? A systematic review. *British journal of sports medicine*, 52(8), 497-504.
14. **Coombes, B. K., Bisset, L., & Vicenzino, B. (2010). Efficacy and safety of corticosteroid injections and other injections for management of tendinopathy: a systematic review of randomised controlled trials. *Lancet*, 376, 1751-67.**
15. Daghighi, M., Negahban, H., Ebrahimzadeh, M. H., Moradi, A., Kachooei, A. R., Raeesi, J., & Divandari, A. (2022). The effectiveness of comprehensive physiotherapy compared with corticosteroid injection on pain, disability, treatment effectiveness, and quality of life in patients with subacromial pain syndrome: a parallel, single-blind, randomized controlled trial. *Physiotherapy Theory and Practice*, 1-15.

16. Dean, B. J. F., Lostis, E., Oakley, T., Rombach, I., Morrey, M. E., & Carr, A. J. (2014). The risks and benefits of glucocorticoid treatment for tendinopathy: a systematic review of the effects of local glucocorticoid on tendon. In *Seminars in arthritis and rheumatism*, 43(4), 570-576.
17. Donovan, R. L., Edwards, T. A., Judge, A., Blom, A. W., Kunutsor, S. K., & Whitehouse, M. R. (2022). Effects of recurrent intra-articular corticosteroid injections for osteoarthritis at 3 months and beyond: a systematic review and meta-analysis in comparison to other injectables. *Osteoarthritis and Cartilage*, 30(12), 1658-1669.
18. Estee, M. M., Cicuttini, F. M., Page, M. J., Butala, A. D., Wluka, A. E., Hussain, S. M., & Wang, Y. (2022). Efficacy of corticosteroids for hand osteoarthritis-a systematic review and meta-analysis of randomized controlled trials. *BMC Musculoskeletal Disorders*, 23(1), 665.
19. Foster, Z. J., Voss, T. T., Hatch, J., & Frimodig, A. (2015). Corticosteroid injections for common musculoskeletal conditions. *American family physician*, 92(8), 694-699.
20. Foxcroft, B., Stephens, G., Woodhead, T., & Ayre, C. (2024). What factors influence pain scores following Corticosteroid injection in patients with Greater Trochanteric Pain Syndrome? A systematic review. *BMC Musculoskeletal Disorders*, 25(1), 149.
21. Freire, V., & Bureau, N. J. (2016, November). **Injectable corticosteroids: take precautions and use caution.** In *Seminars in Musculoskeletal Radiology* (Vol. 20, No. 05, pp. 401-408). Thieme Medical Publishers.
22. Gazendam, A., Ekhtiari, S., Bozzo, A., Phillips, M., & Bhandari, M. (2021). Intra-articular saline injection is as effective as corticosteroids, platelet-rich plasma and hyaluronic acid for hip osteoarthritis pain: a systematic review and network meta-analysis of randomised controlled trials. *British journal of sports medicine*, 55(5), 256-261.
23. Gazendam, A., Ekhtiari, S., Axelrod, D., Gouveia, K., Gyemi, L., Ayeni, O., & Bhandari, M. (2022). Comparative efficacy of nonoperative treatments for greater trochanteric pain syndrome: a systematic review and network meta-analysis of randomized controlled trials. *Clinical Journal of Sport Medicine*, 32(4), 427-432.
24. Graf, D. N., Thallinger, A., Zubler, V., & Sutter, R. (2022). Intraarticular steroid injection in hip and knee with fluoroscopic guidance: reassessing safety. *Radiology*, 304(2), 363-369.
25. Guemara, R., & Nissen, M. J. (2023). The Greater Trochanteric Pain Syndrome: Clinical Presentation, Diagnosis, and Management. *Current Treatment Options in Rheumatology*, 9(4), 192-203.
26. Guermazi, A., Hunter, D. J., & Kloppenburg, M. (2023). Debate: Intra-articular steroid injections for osteoarthritis—harmful or helpful?. *Osteoarthritis imaging*, 3(3), 100163.
27. Honcharuk, E., & Monica, J. (2016). Complications associated with intra-articular and extra-articular corticosteroid injections. *JBJS reviews*, 4(12), e2.
28. Hauser, R. A. (2009). The deterioration of articular cartilage in osteoarthritis by corticosteroid injections. *Journal of Prolotherapy*, 1(2), 107-23.
29. Kamel, S. I., Rosas, H. G., & Gorbachova, T. (2024). Local and Systemic Side Effects of Corticosteroid Injections for Musculoskeletal Indications. *American Journal of Roentgenology*, 222(2), e2330458.
30. Kelley, M. J., Shaffer, M. A., Kuhn, J. E., Michener, L. A., Seitz, A. L., Uhl, T. L., ... & Wilk, K. (2013). Shoulder pain and mobility deficits: adhesive capsulitis: clinical practice guidelines linked to the international classification of functioning, disability, and health from the Orthopaedic Section of the American Physical Therapy Association. *Journal of orthopaedic & sports physical therapy*, 43(5), A1-A31.
31. Kim, Y. M., Joo, Y. B., & Song, J. H. (2023). Preoperative intra-articular steroid injections within 3 months increase the risk of periprosthetic joint infection in total knee arthroplasty: a systematic review and meta-analysis. *Journal of Orthopaedic Surgery and Research*, 18(1), 148.
32. Kjeldsen, T., Hvidt, K. J., Bohn, M. B., Mygind-Klavsén, B., Lind, M., Semciw, A. I., & Mechlenburg, I. (2024). Exercise compared to a control condition or other conservative treatment options in patients with Greater Trochanteric Pain Syndrome: a systematic review and meta-analysis of randomized controlled trials. *Physiotherapy*.
33. Koppel, A. J., Roemer, F. W., Murakami, A. M., Diaz, L. E., Crema, M. D., & Guermazi, A. (2019). Intra-articular corticosteroid injections in the hip and knee: perhaps not as safe as we thought?. *Radiology*, 293(3), 656-663.
34. Lafrance, S., Charron, M., Roy, J. S., Dyer, J. O., Frémont, P., Dionne, C. E., ... & Desmeules, F. (2022). Diagnosing, Managing and Supporting Return to Work of Adults with Rotator Cuff Disorders: A Clinical Practice Guideline. *Journal of Orthopaedic & Sports Physical Therapy*, (0), 1-37.
35. Lapner, P., Alfonso, A., Hebert-Davies, J., Pollock, J. W., Marsh, J., King, G. J., & Shoulder, C. (2022). Nonoperative treatment of lateral epicondylitis: a systematic review and meta-analysis. *JSES international*, 6(2), 321-330.

36. Lavigne, A., Nguyen, D., Chartrand-Oberoi, O., Noyon, B., Spiliotopoulos, S., Kfoury, C., ... & Mares, C. (2024). Incidence and Risk Factors of Systemic Adverse Effects and Complications of Ultrasound-and Fluoroscopy-Guided Glucocorticoid Injections: A Retrospective Cohort Study. *American Journal of Physical Medicine & Rehabilitation*, 103(1), 31-37.
37. Lin, C. Y., Huang, S. C., Tzou, S. J., Yin, C. H., Chen, J. S., Chen, Y. S., & Chang, S. T. (2022). A positive correlation between steroid injections and cuff tendon tears: a cohort study using a clinical database. *International Journal of Environmental Research and Public Health*, 19(8), 4520.
38. McAlindon, T. E., LaValley, M. P., Harvey, W. F., Price, L. L., Driban, J. B., Zhang, M., & Ward, R. J. (2017). Effect of intra-articular triamcinolone vs saline on knee cartilage volume and pain in patients with knee osteoarthritis: a randomized clinical trial. *Jama*, 317(19), 1967-1975.
39. Mellor, R., Bennell, K., Grimaldi, A., Nicolson, P., Kasza, J., Hodges, P., ... & Vicenzino, B. (2018). Education plus exercise versus corticosteroid injection use versus a wait and see approach on global outcome and pain from gluteal tendinopathy: prospective, single blinded, randomised clinical trial. *bmj*, 361.
40. Mohamadi, A., Chan, J. J., Claessen, F. M., Ring, D., & Chen, N. C. (2017). Corticosteroid injections give small and transient pain relief in rotator cuff tendinosis: a meta-analysis. *Clinical Orthopaedics and Related Research®*, 475(1), 232-243.
41. Najm, A., Alunno, A., Gwinnutt, J. M., Weill, C., & Berenbaum, F. (2021). Efficacy of intra-articular corticosteroid injections in knee osteoarthritis: a systematic review and meta-analysis of randomized controlled trials. *Joint Bone Spine*, 88(4), 105198.
42. Nissen, M. J., Brulhart, L., Faundez, A., Finckh, A., Courvoisier, D. S., & Genevay, S. (2019). Glucocorticoid injections for greater trochanteric pain syndrome: a randomised double-blind placebo-controlled (GLUTEAL) trial. *Clinical rheumatology*, 38, 647-655.
43. Okike, K., King, R. K., Merchant, J. C., Toney, E. A., Lee, G. Y., & Yoon, H. C. (2021). Rapidly destructive hip disease following intra-articular corticosteroid injection of the hip. *JBJS*, 103(22), 2070-2079.
44. Olafsen, N. P., Herring, S. A., & Orchard, J. W. (2018). Injectable corticosteroids in sport. *Clinical Journal of Sport Medicine*, 28(5), 451-456.
45. Olaussen, M., Holmedal, O., Lindbaek, M., Brage, S., & Solvang, H. (2013). Treating lateral epicondylitis with corticosteroid injections or non-electrotherapeutical physiotherapy: a systematic review. *BMJ open*, 3(10), e003564.
46. Parker, E. B., Hering, K. A., Chiodo, C. P., Smith, J. T., Bluman, E. M., & Martin, E. A. (2023). Intraarticular injections in the foot and ankle: medication selection patterns and perceived risk of chondrotoxicity. *Foot & Ankle Orthopaedics*, 8(4), 24730114231216990.
47. Parry, D., Dhillon, J., & Kraeutler, M. J. (2025). Risks of Intra-Articular Hip Corticosteroid Injections Include Rapidly Progressive Osteoarthritis and Femoral Head Collapse in Patients With and Without Osteoarthritis: A Systematic Review. *Arthroscopy, Sports Medicine, and Rehabilitation*, 101169.
48. Patel, A., & Bahna, S. L. (2015). Immediate hypersensitivity reactions to corticosteroids. *Annals of Allergy, Asthma & Immunology*, 115(3), 178-182.
49. Pirri, C., Sorbino, A., Manocchio, N., Pirri, N., Devito, A., Foti, C., & Migliore, A. (2024). Chondrotoxicity of intra-articular injection treatment: a scoping review. *International Journal of Molecular Sciences*, 25(13), 7010.
50. Poulsen, R. C., Watts, A. C., Murphy, R. J., Snelling, S. J., Carr, A. J., & Hulley, P. A. (2014). Glucocorticoids induce senescence in primary human tenocytes by inhibition of sirtuin 1 and activation of the p53/p21 pathway: in vivo and in vitro evidence. *Annals of the rheumatic diseases*, 73(7), 1405-1413.
51. Puzzitiello, R. N., Patel, B. H., Forlenza, E. M., Nwachukwu, B. U., Allen, A. A., Forsythe, B., & Salzler, M. J. (2020). Adverse impact of corticosteroids on rotator cuff tendon health and repair: a systematic review of basic science studies. *Arthroscopy, sports medicine, and rehabilitation*, 2(2), e161-e169.
52. Qiao, X., Yan, L., Feng, Y., Li, X., Zhang, K., Lv, Z., ... & Tian, Z. (2023). Efficacy and safety of corticosteroids, hyaluronic acid, and PRP and combination therapy for knee osteoarthritis: a systematic review and network meta-analysis. *BMC Musculoskeletal Disorders*, 24(1), 926.
53. Ramírez, J., Pomés, I., Cabrera, S., Pomés, J., Sanmartí, R., & Cañete, J. D. (2014). Incidence of full-thickness rotator cuff tear after subacromial corticosteroid injection: a 12-week prospective study. *Modern Rheumatology*, 24(4), 667-670.
54. Regan, P., Elkhaila, S., & Barratt, P. (2022). The systemic immunosuppressive effects of peripheral corticosteroid injections: A narrative review of the evidence in the context of COVID-19. *Musculoskeletal Care*, 20(3), 431-441.
55. Rhim, H. C., Ruiz, J., Taseh, A., Afunugo, W., Crockett, Z., Schon, J., ... & Robinson, D. M. (2024). Nonsteroidal Anti-Inflammatory Drug Injections versus Steroid Injections in the Management of Upper and Lower Extremity Orthopedic Conditions: A Systematic Review with Meta-Analysis. *Journal of Clinical Medicine*, 13(4), 1132.

56. **Rodriguez-García, S. C., Castellanos-Moreira, R., Uson, J., Naredo, E., O'Neill, T. W., Doherty, M., ... & Carmona, L. (2021). Efficacy and safety of intra-articular therapies in rheumatic and musculoskeletal diseases: an overview of systematic reviews. *RMD open*, 7(2), e001658.**
57. Sanguino, R. A., Sood, V., Santiago, K. A., Cheng, J., Casey, E., Mintz, D., & Wyss, J. F. (2023). Prevalence of rapidly progressive osteoarthritis of the hip following intra-articular steroid injections. *PM&R*, 15(3), 259-264.
58. Schoell, K., Crabb, R., Simpson, E., Deshpande, V., Gardner, V., Quilligan, E., ... & Kassam, H. (2024). Preoperative corticosteroid injections are associated with a higher periprosthetic infection rate following primary total shoulder arthroplasty: a systematic review and meta-analysis. *Journal of Shoulder and Elbow Surgery*.
59. **Shah, A., Mak, D., Davies, A. M., James, S. L., & Botchu, R. (2019). Musculoskeletal corticosteroid administration: current concepts. *Canadian Association of Radiologists Journal*, 70(1), 29-36.**
60. **Sherman, S. L., James, C., Stoker, A. M., Cook, C. R., Khazai, R. S., Flood, D. L., & Cook, J. L. (2015). In vivo toxicity of local anesthetics and corticosteroids on chondrocyte and synoviocyte viability and metabolism. *Cartilage*, 6(2), 106-112.**
61. **Speed, C. A. (2001). Corticosteroid injections in tendon lesions. *Bmj*, 323(7309), 382-386.**
62. **Stone, S., Malanga, G. A., & Capella, T. (2021). Corticosteroids: review of the history, the effectiveness, and adverse effects in the treatment of joint pain. *Pain Physician*, 24(S1), S233.**
63. Sun, J. Q., Stillson, Q. A., Strelzow, J. A., & Shi, L. L. (2021). Trends in corticosteroid injections for treatment of lateral epicondylitis: an analysis of 80,169 patients. *JAAOS Global Research & Reviews*, 5(9), e21.
64. **Sytsma, T. T., Thomas, S., Fischer, K. M., & Greenlund, L. S. (2024). Corticosteroid injections and risk of fracture. *JAMA network open*, 7(5), e2414316-e2414316.**
65. Taliaferro, K., Crawford, A., Jabara, J., Lynch, J., Jung, E., Zvirbulis, R., & Banka, T. (2018). Intraocular pressure increases after intraarticular knee injection with triamcinolone but not hyaluronic acid. *Clinical Orthopaedics and Related Research®*, 476(7), 1420-1425.
66. Ton, J., Perry, D., Thomas, B., Allan, G. M., Lindblad, A. J., McCormack, J., ... & Korownyk, C. S. (2020). PEER umbrella systematic review of systematic reviews: Management of osteoarthritis in primary care. *Canadian Family Physician*, 66(3), e89-e98.
67. Tsikopoulos, K., Vasiliadis, H. S., & Mavridis, D. (2016). Injection therapies for plantar fasciopathy ('plantar fasciitis'): a systematic review and network meta-analysis of 22 randomised controlled trials. *British journal of sports medicine*, 50(22), 1367-1375.
68. Van Boxem, K., Rijdsdijk, M., Hans, G., de Jong, J., Kallewaard, J. W., Vissers, K., ... & Van Zundert, J. (2019). Safe use of epidural corticosteroid injections: recommendations of the WIP Benelux Work Group. *Pain Practice*, 19(1), 61-92.
69. Van Doorn, P. F., Schiphof, D., Rozendaal, R. M., Ottenheijm, R. P., van der Lei, J., Bindels, P. J., & de Schepper, E. I. (2022). The use and safety of corticosteroid injections for shoulder pain in general practice: a retrospective cohort study. *Family Practice*, 39(3), 367-372.
70. Wang, Y., Wang, K., Qin, Y., Wang, S., Tan, B., Jia, L., ... & Niu, L. (2022). The effect of corticosteroid injection in the treatment of greater trochanter pain syndrome: a systematic review and meta-analysis of randomized controlled trials. *Journal of Orthopaedic Surgery and Research*, 17(1), 283.
71. **Wernecke, C., Braun, H. J., & Dragoo, J. L. (2015). The effect of intra-articular corticosteroids on articular cartilage: a systematic review. *Orthopaedic journal of sports medicine*, 3(5), 2325967115581163.**
72. Whittaker, G. A., Munteanu, S. E., Menz, H. B., Bonanno, D. R., Gerrard, J. M., & Landorf, K. B. (2019). Corticosteroid injection for plantar heel pain: a systematic review and meta-analysis. *BMC musculoskeletal disorders*, 20, 1-22.
73. Zhao, Z., Ma, J. X., & Ma, X. L. (2020). Different intra-articular injections as therapy for hip osteoarthritis: a systematic review and network meta-analysis. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*, 36(5), 1452-1464.
74. Zeng, C., Lane, N. E., Hunter, D. J., Wei, J., Choi, H. K., McAlindon, T. E., ... & Zhang, Y. (2019). Intra-articular corticosteroids and the risk of knee osteoarthritis progression: results from the Osteoarthritis Initiative. *Osteoarthritis and cartilage*, 27(6), 855-862.