**Chapter 3**

**Arthritis Pain**

A diclofenac patch (Flector) for pain. (2008). *Med Lett Drugs Ther, 50*(1277), 1-2.

Administration, U.S. Food and Drug. (2005). Analysis and recommendations for agency action regarding nonsteroidal anti-inflammatory drugs and cardiovascular risk. *J Pain Palliat Care Pharmacother, 19*(4), 83-97.

Ahern, M. J., Reid, C., Gordon, T. P., McCredie, M., Brooks, P. M., & Jones, M. (1987). Does colchicine work? The results of the first controlled study in acute gout. *Aust N Z J Med, 17*(3), 301-304.

Ajeganova, S., van Steenbergen, H. W., van Nies, J. A., Burgers, L. E., Huizinga, T. W., & van der Helm-van Mil, A. H. (2016). Disease-modifying antirheumatic drug-free sustained remission in rheumatoid arthritis: an increasingly achievable outcome with subsidence of disease symptoms. *Ann Rheum Dis, 75*(5), 867-873. doi:10.1136/annrheumdis-2014-207080

Aletaha, D., Neogi, T., Silman, A. J., Funovits, J., Felson, D. T., Bingham, C. O., Hawker, G. (2010). 2010 rheumatoid arthritis classification criteria: an American College of Rheumatology/European League Against Rheumatism collaborative initiative. *Ann Rheum Dis, 69*(9), 1580-1588. doi:10.1136/ard.2010.138461

Aletaha, D., Neogi, T., Silman, A. J., Funovits, J., Felson, D. T., Bingham, C. O. Hawker, G. (2010). 2010 Rheumatoid arthritis classification criteria: an American College of Rheumatology/European League Against Rheumatism collaborative initiative. *Arthritis Rheum, 62*(9), 2569-2581. doi:10.1002/art.27584

Altman, R., Alarcón, G., Appelrouth, D., Bloch, D., Borenstein, D., Brandt, K., Gray, R. (1990). The American College of Rheumatology criteria for the classification and reporting of osteoarthritis of the hand. *Arthritis Rheum, 33*(11), 1601-1610.

Altman, R., Asch, E., Bloch, D., Bole, G., Borenstein, D., Brandt, K., Hochberg, M. (1986). Development of criteria for the classification and reporting of osteoarthritis. Classification of osteoarthritis of the knee. Diagnostic and Therapeutic Criteria Committee of the American Rheumatism Association. *Arthritis Rheum, 29*(8), 1039-1049.

Alvsaker, J. O. (1965). Uric acid in human plasma. IV. Investigations on the interactions between urate and the macromolecular fraction in plasma from healthy individuals and patients with diseases associated with hyperuricemia. *Scand J Clin Lab Invest, 17*(5), 476-482.

American Academy of Orthopedic Surgeons. Treatment of osteoarthritis of the knee. Evidence based guideline.

American Geriatrics Society 2012 Beers Criteria Update Expert Panel. (2012). American Geriatrics Society updated Beers Criteria for potentially inappropriate medication use in older adults. *J Am Geriatr Soc, 60*(4), 616-631. doi:10.1111/j.1532-5415.2012.03923.x

Anderson, J. J., Wells, G., Verhoeven, A. C., & Felson, D. T. (2000). Factors predicting response to treatment in rheumatoid arthritis: the importance of disease duration. *Arthritis Rheum, 43*(1), 22-29. doi:10.1002/1529-0131(200001)43:1<22::AID-ANR4>3.0.CO;2-9

Avouac, J., Gossec, L., & Dougados, M. (2007). Efficacy and safety of opioids for osteoarthritis: a meta-analysis of randomized controlled trials. *Osteoarthritis Cartilage, 15*(8), 957-965. doi:10.1016/j.joca.2007.02.006

Bakker, M. F., Jacobs, J. W., Welsing, P. M., Verstappen, S. M., Tekstra, J., Ton, E., Group, Utrecht Rheumatoid Arthritis Cohort Study. (2012). Low-dose prednisone inclusion in a methotrexate-based, tight control strategy for early rheumatoid arthritis: a randomized trial. *Ann Intern Med, 156*(5), 329-339. doi:10.7326/0003-4819-156-5-201203060-00004

Bannuru, R. R., Schmid, C. H., Kent, D. M., Vaysbrot, E. E., Wong, J. B., & McAlindon, T. E. (2015). Comparative effectiveness of pharmacologic interventions for knee osteoarthritis: a systematic review and network meta-analysis. *Ann Intern Med, 162*(1), 46-54. doi:10.7326/M14-1231

Bartels, E. M., Lund, H., Hagen, K. B., Dagfinrud, H., Christensen, R., & Danneskiold-Samsøe, B. (2007). Aquatic exercise for the treatment of knee and hip osteoarthritis. *Cochrane Database Syst Rev*(4), CD005523. doi:10.1002/14651858.CD005523.pub2

Batchlor, E. E., & Paulus, H. E. (1992). Principles of drug therapy. In *Osteoarthritis: Diagnosis and Medical/Surgical Management. Edited by RW Moskowitz, DS Howell, VM Goldberg, HJ Mankin. Philadelphia, WB Saunders.* p.465

Becker, M. A., & Jolly, M. (2006). Hyperuricemia and associated diseases. *Rheum Dis Clin North Am, 32*(2), 275-293, v-vi. doi:10.1016/j.rdc.2006.02.005

Becker, M. A., Schumacher, H. R., Wortmann, R. L., MacDonald, P. A., Eustace, D., Palo, W. A., & Joseph-Ridge, N. (2005). Febuxostat compared with allopurinol in patients with hyperuricemia and gout. *N Engl J Med, 353*(23), 2450-2461. doi:10.1056/NEJMoa050373

Bedson, J., & Croft, P. R. (2008). The discordance between clinical and radiographic knee osteoarthritis: a systematic search and summary of the literature. *BMC Musculoskelet Disord, 9*, 116. doi:10.1186/1471-2474-9-116

Benson, T. B., & Copp, E. P. (1974). The effects of therapeutic forms of heat and ice on the pain threshold of the normal shoulder. *Rheumatol Rehabil, 13*(2), 101-104.

Bjordal, J. M., Klovning, A., Ljunggren, A. E., & Slørdal, L. (2007). Short-term efficacy of pharmacotherapeutic interventions in osteoarthritic knee pain: A meta-analysis of randomised placebo-controlled trials. *Eur J Pain, 11*(2), 125-138. doi:10.1016/j.ejpain.2006.02.013

Bonilla-Hernán, M. G., Miranda-Carús, M. E., & Martin-Mola, E. (2011). New drugs beyond biologics in rheumatoid arthritis: the kinase inhibitors. *Rheumatology (Oxford), 50*(9), 1542-1550. doi:10.1093/rheumatology/ker192

Börner, C., Warnick, B., Smida, M., Hartig, R., Lindquist, J. A., Schraven, B., Kraus, J. (2009). Mechanisms of opioid-mediated inhibition of human T cell receptor signaling. *J Immunol, 183*(2), 882-889. doi:10.4049/jimmunol.0802763

Budd, K. (2006). Pain management: is opioid immunosuppression a clinical problem? *Biomed Pharmacother, 60*(7), 310-317. doi:10.1016/j.biopha.2006.06.015

Busso, N., & So, A. (2010). Mechanisms of inflammation in gout. *Arthritis Res Ther, 12*(2), 206. doi:10.1186/ar2952

Casey, E. (2011). Natural history of radiculopathy. *Phys Med Rehabil Clin N Am, 22*(1), 1-5. doi:10.1016/j.pmr.2010.10.001

Catella-Lawson, F., Reilly, M. P., Kapoor, S. C., Cucchiara, A. J., DeMarco, S., Tournier, B., FitzGerald, G. A. (2001). Cyclooxygenase inhibitors and the antiplatelet effects of aspirin. *N Engl J Med, 345*(25), 1809-1817. doi:10.1056/NEJMoa003199

Cepeda, M. S., Camargo, F., Zea, C., & Valencia, L. (2006). Tramadol for osteoarthritis. *Cochrane Database Syst Rev*(3), CD005522. doi:10.1002/14651858.CD005522.pub2

Chan, P. S., Caron, J. P., Rosa, G. J., & Orth, M. W. (2005). Glucosamine and chondroitin sulfate regulate gene expression and synthesis of nitric oxide and prostaglandin E(2) in articular cartilage explants. *Osteoarthritis Cartilage, 13*(5), 387-394. doi:10.1016/j.joca.2005.01.003

Chappell, A. S., Desaiah, D., Liu-Seifert, H., Zhang, S., Skljarevski, V., Belenkov, Y., & Brown, J. P. (2011). A double-blind, randomized, placebo-controlled study of the efficacy and safety of duloxetine for the treatment of chronic pain due to osteoarthritis of the knee. *Pain Pract, 11*(1), 33-41. doi:10.1111/j.1533-2500.2010.00401.x

Chappell, A. S., Ossanna, M. J., Liu-Seifert, H., Iyengar, S., Skljarevski, V., Li, L. C., Collins, H. (2009). Duloxetine, a centrally acting analgesic, in the treatment of patients with osteoarthritis knee pain: a 13-week, randomized, placebo-controlled trial. *Pain, 146*(3), 253-260. doi:10.1016/j.pain.2009.06.024

Chen, K., Fields, T., Mancuso, C. A., Bass, A. R., & Vasanth, L. (2010, December). Anakinra's efficacy is variable in refractory gout: report of ten cases. In *Seminars in arthritis and rheumatism* (Vol. 40, No. 3, pp. 210-214). WB Saunders.

Chen, L. X., & Schumacher, H. R. (2006). Current trends in crystal identification. *Curr Opin Rheumatol, 18*(2), 171-173. doi:10.1097/01.bor.0000209430.59226.0f

Chingcuanco, F., Segal, J. B., Kim, S. C., & Alexander, G. C. (2016). Bioequivalence of Biosimilar Tumor Necrosis Factor-α Inhibitors Compared With Their Reference Biologics: A Systematic Review. *Ann Intern Med, 165*(8), 565-574. doi:10.7326/M16-0428

Choi, H. (2006). Epidemiology of crystal arthropathy. *Rheum Dis Clin North Am, 32*(2), 255-273, v. doi:10.1016/j.rdc.2006.03.002

Choi, H. K., Atkinson, K., Karlson, E. W., Willett, W., & Curhan, G. (2004). Alcohol intake and risk of incident gout in men: a prospective study. *Lancet, 363*(9417), 1277-1281. doi:10.1016/S0140-6736(04)16000-5

Choi, H. K., Atkinson, K., Karlson, E. W., Willett, W., & Curhan, G. (2004). Purine-rich foods, dairy and protein intake, and the risk of gout in men. *N Engl J Med, 350*(11), 1093-1103. doi:10.1056/NEJMoa035700

Choi, H. K., Liu, S., & Curhan, G. (2005). Intake of purine-rich foods, protein, and dairy products and relationship to serum levels of uric acid: the Third National Health and Nutrition Examination Survey. *Arthritis Rheum, 52*(1), 283-289. doi:10.1002/art.20761

Choi, H. K., Niu, J., Neogi, T., Chen, C. A., Chaisson, C., Hunter, D., & Zhang, Y. (2015). Nocturnal risk of gout attacks. *Arthritis Rheumatol, 67*(2), 555-562. doi:10.1002/art.38917

Chou, R., Turner, J. A., Devine, E. B., Hansen, R. N., Sullivan, S. D., Blazina, I., Deyo, R. A. (2015). The effectiveness and risks of long-term opioid therapy for chronic pain: a systematic review for a National Institutes of Health Pathways to Prevention Workshop. *Ann Intern Med, 162*(4), 276-286. doi:10.7326/M14-2559

Conrozier, T., Bertin, P., Mathieu, P., Charlot, J., Bailleul, F., Treves, R., & Chevalier, X. (2002). Intra-articular injections of hylan GF 20 in patients with symptomatic hip osteoarthritis: an open-label, multicentre, pilot study. *Clinical and experimental rheumatology*, *21*(5), 605-610.

Cramp, F., Hewlett, S., Almeida, C., Kirwan, J. R., Choy, E. H., Chalder, T., Christensen, R. (2013). Non-pharmacological interventions for fatigue in rheumatoid arthritis. *Cochrane Database Syst Rev*(8), CD008322. doi:10.1002/14651858.CD008322.pub2

da Costa, B. R., Nüesch, E., Kasteler, R., Husni, E., Welch, V., Rutjes, A. W., & Jüni, P. (2014). Oral or transdermal opioids for osteoarthritis of the knee or hip. *Cochrane Database Syst Rev*(9), CD003115. doi:10.1002/14651858.CD003115.pub4

Dalbeth, N., & Haskard, D. O. (2006). Pathophysiology of crystal-induced arthritis. In *Crystal-Induced Arthropathies: Gout, Pseudogout and Apatite-Associated Syndromes* (pp. 239-254). CRC Press.

Dalbeth, N., Kalluru, R., Aati, O., Horne, A., Doyle, A. J., & McQueen, F. M. (2013). Tendon involvement in the feet of patients with gout: a dual-energy CT study. *Ann Rheum Dis, 72*(9), 1545-1548. doi:10.1136/annrheumdis-2012-202786

Derry, S., Moore, R. A., & Rabbie, R. (2012). Topical NSAIDs for chronic musculoskeletal pain in adults. *Cochrane Database Syst Rev*(9), CD007400. doi:10.1002/14651858.CD007400.pub2

Diclofenac gel for osteoarthritis. (2008). *Med Lett Drugs Ther, 50*(1284), 31-32.

Dixon, W. G., Suissa, S., & Hudson, M. (2011). The association between systemic glucocorticoid therapy and the risk of infection in patients with rheumatoid arthritis: systematic review and meta-analyses. *Arthritis Res Ther, 13*(4), R139. doi:10.1186/ar3453

Donahue, K. E., Gartlehner, G., Jonas, D. E., Lux, L. J., Thieda, P., Jonas, B. L., Lohr, K. N. (2008). Systematic review: comparative effectiveness and harms of disease-modifying medications for rheumatoid arthritis. *Ann Intern Med, 148*(2), 124-134.

Doran, M. F., Crowson, C. S., Pond, G. R., O'Fallon, W. M., & Gabriel, S. E. (2002). Predictors of infection in rheumatoid arthritis. *Arthritis Rheum, 46*(9), 2294-2300. doi:10.1002/art.10529

Doucette, S. A., & Goble, E. M. (1992). The effect of exercise on patellar tracking in lateral patellar compression syndrome. *Am J Sports Med, 20*(4), 434-440. doi:10.1177/036354659202000412

Dowell, D., Haegerich, T. M., & Chou, R. (2016). CDC Guideline for Prescribing Opioids for Chronic Pain - United States, 2016. *MMWR Recomm Rep, 65*(1), 1-49. doi:10.15585/mmwr.rr6501e1

FDA approves Zurampic to treat high blood uric acid levels associated with gout. <https://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm478791.htm> (Accessed on December 2016).

Felson, D. T., Anderson, J. J., Naimark, A., Walker, A. M., & Meenan, R. F. (1988). Obesity and knee osteoarthritis. The Framingham Study. *Ann Intern Med, 109*(1), 18-24.

Felson, D. T., Zhang, Y., Anthony, J. M., Naimark, A., & Anderson, J. J. (1992). Weight loss reduces the risk for symptomatic knee osteoarthritis in women. The Framingham Study. *Ann Intern Med, 116*(7), 535-539.

Fernández, C., Noguera, R., González, J. A., & Pascual, E. (1999). Treatment of acute attacks of gout with a small dose of intraarticular triamcinolone acetonide. *J Rheumatol, 26*(10), 2285-2286.

Finckh, A., Bansback, N., Marra, C. A., Anis, A. H., Michaud, K., Lubin, S., Liang, M. H. (2009). Treatment of very early rheumatoid arthritis with symptomatic therapy, disease-modifying antirheumatic drugs, or biologic agents: a cost-effectiveness analysis. *Ann Intern Med, 151*(9), 612-621. doi:10.7326/0003-4819-151-9-200911030-00006

Fischer E., & Solomon S. Physiological responses to heat and cold. In: Therapeutic heat and cold, Licht S (Ed), E Licht, New Haven, CT 1965, p.126.

Forestier, R., Desfour, H., Tessier, J. M., Françon, A., Foote, A. M., Genty, C., Bosson, J. L. (2010). Spa therapy in the treatment of knee osteoarthritis: a large randomised multicentre trial. *Ann Rheum Dis, 69*(4), 660-665. doi:10.1136/ard.2009.113209

Fransen, M., & McConnell, S. (2009). Land-based exercise for osteoarthritis of the knee: a metaanalysis of randomized controlled trials. *J Rheumatol, 36*(6), 1109-1117. doi:10.3899/jrheum.090058

Fransen, M., McConnell, S., Hernandez-Molina, G., & Reichenbach, S. (2010). Does land-based exercise reduce pain and disability associated with hip osteoarthritis? A meta-analysis of randomized controlled trials. *Osteoarthritis Cartilage, 18*(5), 613-620. doi:10.1016/j.joca.2010.01.003

Friedewald, V. E., Bennett, J. S., Christo, J. P., Pool, J. L., Scheiman, J. M., Simon, L. S., Roberts, W. C. (2010). AJC Editor's consensus: Selective and nonselective nonsteroidal anti-inflammatory drugs and cardiovascular risk. *Am J Cardiol, 106*(6), 873-884. doi:10.1016/j.amjcard.2010.04.006

Fuchs, H. A., Kaye, J. J., Callahan, L. F., Nance, E. P., & Pincus, T. (1989). Evidence of significant radiographic damage in rheumatoid arthritis within the first 2 years of disease. *J Rheumatol, 16*(5), 585-591.

Galeotti, N., Di Cesare Mannelli, L., Mazzanti, G., Bartolini, A., & Ghelardini, C. (2002). Menthol: a natural analgesic compound. *Neurosci Lett, 322*(3), 145-148.

Geusens, P., Wouters, C., Nijs, J., Jiang, Y., & Dequeker, J. (1994). Long-term effect of omega-3 fatty acid supplementation in active rheumatoid arthritis. A 12-month, double-blind, controlled study. *Arthritis Rheum, 37*(6), 824-829.

Gladding, P. A., Webster, M. W., Farrell, H. B., Zeng, I. S., Park, R., & Ruijne, N. (2008). The antiplatelet effect of six non-steroidal anti-inflammatory drugs and their pharmacodynamic interaction with aspirin in healthy volunteers. *Am J Cardiol, 101*(7), 1060-1063. doi:10.1016/j.amjcard.2007.11.054

Goekoop‐Ruiterman, Y. P. M., Vries‐Bouwstra, D., Allaart, C. F., Van Zeben, D., Kerstens, P. J. S. M., Hazes, J. M. W., & Gerards, A. H. (2005). Clinical and radiographic outcomes of four different treatment strategies in patients with early rheumatoid arthritis (the BeSt study): a randomized, controlled trial. *Arthritis & Rheumatism*, *52*(11), 3381-3390.

Gofton, J. P. (1971). Studies in osteoarthritis of the hip. I. Classification. *Can Med Assoc J, 104*(8), 679-683.

Gutman A.B. (1958). Gout and gouty arthritis. In: Textbook of Medicine, Beeson PB, McDermott W (Eds). Philadelphia: Saunders. P.595.

Hadler, N. M., Franck, W. A., Bress, N. M., & Robinson, D. R. (1974). Acute polyarticular gout. *Am J Med, 56*(5), 715-719.

Hayashi, D., Roemer, F. W., & Guermazi, A. (2016). Imaging for osteoarthritis. *Ann Phys Rehabil Med, 59*(3), 161-169. doi:10.1016/j.rehab.2015.12.003

Herrero‐Beaumont, G., Ivorra, J. A. R., del Carmen Trabado, M., Blanco, F. J., Benito, P., Martín‐Mola, E., & Araújo, D. (2007). Glucosamine sulfate in the treatment of knee osteoarthritis symptoms: A randomized, double‐blind, placebo‐controlled study using acetaminophen as a side comparator. *Arthritis & Rheumatology*, *56*(2), 555-567

Hicks, J. E., & Gerber, L. H. (1992). Rehabilitation in the management of patients with osteoarthritis. *Osteoarthritis: Diagnosis and Medical/Surgical Management*, *433*

Hochberg, M. C., Altman, R. D., Brandt, K. D., Clark, B. M., Dieppe, P. A., Griffin, M. R., Schnitzer, T. J. (1995). Guidelines for the medical management of osteoarthritis. Part I. Osteoarthritis of the hip. American College of Rheumatology. *Arthritis Rheum, 38*(11), 1535-1540.

Hochberg, M. C., Martel-Pelletier, J., Monfort, J., Möller, I., Castillo, J. R., Arden, N., Group, MOVES Investigation. (2016a). Combined chondroitin sulfate and glucosamine for painful knee osteoarthritis: a multicentre, randomised, double-blind, non-inferiority trial versus celecoxib. *Ann Rheum Dis, 75*(1), 37-44. doi:10.1136/annrheumdis-2014-206792

Hollander, J. L., & Horvath, S. M. (1949). The influence of physical therapy procedures on the intra-articular temperature of normal and arthritic subjects. *Am J Med Sci, 218*(5), 543-548.

Hurley, M. V., Scott, D. L., Rees, J., & Newham, D. J. (1997). Sensorimotor changes and functional performance in patients with knee osteoarthritis. *Ann Rheum Dis, 56*(11), 641-648.

Jordan, K. M., Arden, N. K., Doherty, M., Bannwarth, B., Bijlsma, J. W., Dieppe, P., ESCISIT, Standing Committee for International Clinical Studies Including Therapeutic Trials. (2003). EULAR Recommendations 2003: an evidence based approach to the management of knee osteoarthritis: Report of a Task Force of the Standing Committee for International Clinical Studies Including Therapeutic Trials (ESCISIT). *Ann Rheum Dis, 62*(12), 1145-1155.

Juhl, C., Christensen, R., Roos, E. M., Zhang, W., & Lund, H. (2014). Impact of exercise type and dose on pain and disability in knee osteoarthritis: a systematic review and meta-regression analysis of randomized controlled trials. *Arthritis Rheumatol, 66*(3), 622-636. doi:10.1002/art.38290

Jutkowitz, E., Choi, H. K., Pizzi, L. T., & Kuntz, K. M. (2014). Cost-effectiveness of allopurinol and febuxostat for the management of gout. *Ann Intern Med, 161*(9), 617-626. doi:10.7326/M14-0227

Kalichman, L., & Hunter, D. J. (2007). Lumbar facet joint osteoarthritis: a review. *Semin Arthritis Rheum, 37*(2), 69-80. doi:10.1016/j.semarthrit.2007.01.007

Kellgren, J. H., & Moore, R. (1952). Generalized osteoarthritis and Heberden's nodes. *Br Med J, 1*(4751), 181-187.

Khanna, D., Fitzgerald, J. D., Khanna, P. P., Bae, S., Singh, M. K., Neogi, T., Rheumatology, American College of. (2012). 2012 American College of Rheumatology guidelines for management of gout. Part 1: systematic nonpharmacologic and pharmacologic therapeutic approaches to hyperuricemia. *Arthritis Care Res (Hoboken), 64*(10), 1431-1446. doi:10.1002/acr.21772

Khanna, D., Khanna, P. P., Fitzgerald, J. D., Singh, M. K., Bae, S., Neogi, T., Rheumatology, American College of. (2012). 2012 American College of Rheumatology guidelines for management of gout. Part 2: therapy and antiinflammatory prophylaxis of acute gouty arthritis. *Arthritis Care Res (Hoboken), 64*(10), 1447-1461. doi:10.1002/acr.21773

Kim, C., Nevitt, M. C., Niu, J., Clancy, M. M., Lane, N. E., Link, T. M., Guermazi, A. (2015). Association of hip pain with radiographic evidence of hip osteoarthritis: diagnostic test study. *BMJ, 351*, h5983.

Kirwan, J. R. (1995). The effect of glucocorticoids on joint destruction in rheumatoid arthritis. The Arthritis and Rheumatism Council Low-Dose Glucocorticoid Study Group. *N Engl J Med, 333*(3), 142-146. doi:10.1056/NEJM199507203330302

Kirwan, J. R., Bijlsma, J. W., Boers, M., & Shea, B. J. (2007). Effects of glucocorticoids on radiological progression in rheumatoid arthritis. *Cochrane Database Syst Rev*(1), CD006356. doi:10.1002/14651858.CD006356

Klareskog, L., Catrina, A. I., & Paget, S. (2009). Rheumatoid arthritis. *Lancet, 373*(9664), 659-672. doi:10.1016/S0140-6736(09)60008-8

Knevel, R., Schoels, M., Huizinga, T. W., Aletaha, D., Burmester, G. R., Combe, B., van der Heijde, D. M. (2010). Current evidence for a strategic approach to the management of rheumatoid arthritis with disease-modifying antirheumatic drugs: a systematic literature review informing the EULAR recommendations for the management of rheumatoid arthritis. *Ann Rheum Dis, 69*(6), 987-994. doi:10.1136/ard.2009.126748

Kourbeti, I. S., Ziakas, P. D., & Mylonakis, E. (2014). Biologic therapies in rheumatoid arthritis and the risk of opportunistic infections: a meta-analysis. *Clin Infect Dis, 58*(12), 1649-1657. doi:10.1093/cid/ciu185

Kramer, H. M., & Curhan, G. (2002). The association between gout and nephrolithiasis: the National Health and Nutrition Examination Survey III, 1988-1994. *Am J Kidney Dis, 40*(1), 37-42. doi:10.1053/ajkd.2002.33911

Krishnan, E., & Fries, J. F. (2003). Reduction in long-term functional disability in rheumatoid arthritis from 1977 to 1998: a longitudinal study of 3035 patients. *Am J Med, 115*(5), 371-376.

Kullenberg, B., Runesson, R., Tuvhag, R., Olsson, C., & Resch, S. (2004). Intraarticular corticosteroid injection: pain relief in osteoarthritis of the hip? *J Rheumatol, 31*(11), 2265-2268.

Kumar, S., & Gow, P. (2002). A survey of indications, results and complications of surgery for tophaceous gout. *N Z Med J, 115*(1158), U109.

Lambert, R. G., Hutchings, E. J., Grace, M. G., Jhangri, G. S., Conner-Spady, B., & Maksymowych, W. P. (2007). Steroid injection for osteoarthritis of the hip: a randomized, double-blind, placebo-controlled trial. *Arthritis Rheum, 56*(7), 2278-2287. doi:10.1002/art.22739

Lard, L. R., Visser, H., Speyer, I., vander Horst-Bruinsma, I. E., Zwinderman, A. H., Breedveld, F. C., & Hazes, J. M. (2001). Early versus delayed treatment in patients with recent-onset rheumatoid arthritis: comparison of two cohorts who received different treatment strategies. *Am J Med, 111*(6), 446-451.

Lawrence, R. C., Felson, D. T., Helmick, C. G., Arnold, L. M., Choi, H., Deyo, R. A., Workgroup, National Arthritis Data. (2008). Estimates of the prevalence of arthritis and other rheumatic conditions in the United States. Part II. *Arthritis Rheum, 58*(1), 26-35. doi:10.1002/art.23176

Lee, D. M., & Schur, P. H. (2003). Clinical utility of the anti-CCP assay in patients with rheumatic diseases. *Ann Rheum Dis, 62*(9), 870-874.

Lippiello, L., Woodward, J., Karpman, R., & Hammad, T. A. (2000). In vivo chondroprotection and metabolic synergy of glucosamine and chondroitin sulfate. *Clin Orthop Relat Res*(381), 229-240.

Listing, J., Gerhold, K., & Zink, A. (2013). The risk of infections associated with rheumatoid arthritis, with its comorbidity and treatment. *Rheumatology (Oxford), 52*(1), 53-61. doi:10.1093/rheumatology/kes305

Machado, G. C., Maher, C. G., Ferreira, P. H., Pinheiro, M. B., Lin, C. W., Day, R. O., Ferreira, M. L. (2015). Efficacy and safety of paracetamol for spinal pain and osteoarthritis: systematic review and meta-analysis of randomised placebo controlled trials. *BMJ, 350*, h1225.

Mason, L., Moore, R. A., Edwards, J. E., McQuay, H. J., Derry, S., & Wiffen, P. J. (2004). Systematic review of efficacy of topical rubefacients containing salicylates for the treatment of acute and chronic pain. *BMJ, 328*(7446), 995. doi:10.1136/bmj.38040.607141.EE

McAlindon, T. E., LaValley, M. P., Gulin, J. P., & Felson, D. T. (2000). Glucosamine and chondroitin for treatment of osteoarthritis: a systematic quality assessment and meta-analysis. *JAMA, 283*(11), 1469-1475.

McCarty, D. J. (1994). Gout without hyperuricemia. *JAMA, 271*(4), 302-303.

McCarty, D. J., & Hollander, J. L. (1961). Identification of urate crystals in gouty synovial fluid. *Ann Intern Med, 54*, 452-460.

McCarty, M. F., Russell, A. L., & Seed, M. P. (2000). Sulfated glycosaminoglycans and glucosamine may synergize in promoting synovial hyaluronic acid synthesis. *Med Hypotheses, 54*(5), 798-802. doi:10.1054/mehy.1999.0954

McInnes, I. B., & O'Dell, J. R. (2010). State-of-the-art: rheumatoid arthritis. *Annals of the rheumatic diseases*, *69*(11), 1898-1906.

McGonagle, D., Conaghan, P. G., O'Connor, P., Gibbon, W., Green, M., Wakefield, R., Emery, P. (1999). The relationship between synovitis and bone changes in early untreated rheumatoid arthritis: a controlled magnetic resonance imaging study. *Arthritis Rheum, 42*(8), 1706-1711. doi:10.1002/1529-0131(199908)42:8<1706::AID-ANR20>3.0.CO;2-Z

McNeal, R. L. (1990). Aquatic therapy for patients with rheumatic disease. *Rheum Dis Clin North Am, 16*(4), 915-929.

Mennell, J. (1976). Spray-stretch for the relief of pain from muscle spasm and myofascial trigger points. *J Am Podiatry Assoc, 66*(11), 873-876. doi:10.7547/87507315-66-11-873

Mertens, M., & Singh, J. A. (2009). Anakinra for rheumatoid arthritis. *Cochrane Database Syst Rev*(1), CD005121. doi:10.1002/14651858.CD005121.pub3

Migliore, A., Tormenta, S., Massafra, U., Bizzi, E., Iannessi, F., Alimonti, A., & Granata, M. (2008). Intra-articular administration of hylan G-F 20 in patients with symptomatic hip osteoarthritis: tolerability and effectiveness in a large cohort study in clinical practice. *Curr Med Res Opin, 24*(5), 1309-1316. doi:10.1185/030079908X291930

Molina, E., Del Rincon, I., Restrepo, J. F., Battafarano, D. F., & Escalante, A. (2015). Association of socioeconomic status with treatment delays, disease activity, joint damage, and disability in rheumatoid arthritis. *Arthritis Care Res (Hoboken), 67*(7), 940-946. doi:10.1002/acr.22542

Morreale, P., Manopulo, R., Galati, M., Boccanera, L., Saponati, G., & Bocchi, L. (1996). Comparison of the antiinflammatory efficacy of chondroitin sulfate and diclofenac sodium in patients with knee osteoarthritis. *J Rheumatol, 23*(8), 1385-1391.

Nell, V. P., Machold, K. P., Eberl, G., Stamm, T. A., Uffmann, M., & Smolen, J. S. (2004). Benefit of very early referral and very early therapy with disease-modifying anti-rheumatic drugs in patients with early rheumatoid arthritis. *Rheumatology (Oxford), 43*(7), 906-914. doi:10.1093/rheumatology/keh199

Neogi, T., Chen, C., Niu, J., Chaisson, C., Hunter, D. J., & Zhang, Y. (2014). Alcohol quantity and type on risk of recurrent gout attacks: an internet-based case-crossover study. *Am J Med, 127*(4), 311-318. doi:10.1016/j.amjmed.2013.12.019

New initiatives to help encourage appropriate use of acetaminophen. McNeil-PPC, Inc. <http://www.tylenol.com/news/newdosing> (Accessed on October 24,2016).

O'Duffy, J. D., Hunder, G. G., & Kelly, P. J. (1975). Decreasing prevalence of tophaceous gout. *Mayo Clin Proc, 50*(5), 227-228.

Orth, M. W., Peters, T. L., & Hawkins, J. N. (2002). Inhibition of articular cartilage degradation by glucosamine-HCl and chondroitin sulphate. *Equine Vet J Suppl*(34), 224-229. doi:10.1111/j.2042-3306.2002.tb05423.x

Osteoarthritis: national clinical guideline for care and management in adults. In Conditions. NCCfC (Ed), Royal College of Physicians, London 2008.

Østergaard, M., & Møller-Bisgaard, S. (2014). Optimal use of MRI in clinical trials, clinical care and clinical registries of patients with rheumatoid arthritis. *Clin Exp Rheumatol, 32*(5 Suppl 85), S-17-22.

Park, Y. B., Park, Y. S., Lee, S. C., Yoon, S. J., & Lee, S. K. (2003). Clinical analysis of gouty patients with normouricaemia at diagnosis. *Ann Rheum Dis, 62*(1), 90-92.

Pascual, E., Batlle-Gualda, E., Martínez, A., Rosas, J., & Vela, P. (1999). Synovial fluid analysis for diagnosis of intercritical gout. *Ann Intern Med, 131*(10), 756-759.

Peloso, P. M. (2001). Opioid therapy for osteoarthritis of the hip and knee: use it or lose it? *J Rheumatol, 28*(1), 6-11.

Pergolizzi, J., Böger, R. H., Budd, K., Dahan, A., Erdine, S., Hans, G., Sacerdote, P. (2008). Opioids and the management of chronic severe pain in the elderly: consensus statement of an International Expert Panel with focus on the six clinically most often used World Health Organization Step III opioids (buprenorphine, fentanyl, hydromorphone, methadone, morphine, oxycodone). *Pain Pract, 8*(4), 287-313. doi:10.1111/j.1533-2500.2008.00204.x

Pincus, T., & Castrejón, I. (2013). Evidence that the strategy is more important than the agent to treat rheumatoid arthritis. Data from clinical trials of combinations of non-biologic DMARDs, with protocol-driven intensification of therapy for tight control or treat-to-target. *Bull Hosp Jt Dis (2013), 71 Suppl 1*, S33-40.

Pincus, T., Sokka, T., & Kautiainen, H. (2005). Patients seen for standard rheumatoid arthritis care have significantly better articular, radiographic, laboratory, and functional status in 2000 than in 1985. *Arthritis Rheum, 52*(4), 1009-1019. doi:10.1002/art.20941

Proudman, S. M., James, M. J., Spargo, L. D., Metcalf, R. G., Sullivan, T. R., Rischmueller, M., Cleland, L. G. (2015). Fish oil in recent onset rheumatoid arthritis: a randomised, double-blind controlled trial within algorithm-based drug use. *Ann Rheum Dis, 74*(1), 89-95. doi:10.1136/annrheumdis-2013-204145

Punzi, L., Ramonda, R., & Sfriso, P. (2004). Erosive osteoarthritis. *Best Pract Res Clin Rheumatol, 18*(5), 739-758. doi:10.1016/j.berh.2004.05.010

Rainer, T. H., Cheng, C. H., Janssens, H. J., Man, C. Y., Tam, L. S., Choi, Y. F., Graham, C. A. (2016). Oral Prednisolone in the Treatment of Acute Gout: A Pragmatic, Multicenter, Double-Blind, Randomized Trial. *Ann Intern Med, 164*(7), 464-471. doi:10.7326/M14-2070

Rantalaiho, V., Korpela, M., Hannonen, P., Kautiainen, H., Järvenpää, S., Leirisalo-Repo, M., Group, FIN-RACo Trial. (2009). The good initial response to therapy with a combination of traditional disease-modifying antirheumatic drugs is sustained over time: the eleven-year results of the Finnish rheumatoid arthritis combination therapy trial. *Arthritis Rheum, 60*(5), 1222-1231. doi:10.1002/art.24447

Recommendations for the medical management of osteoarthritis of the hip and knee: 2000 update. American College of Rheumatology Subcommittee on Osteoarthritis Guidelines. (2000). *Arthritis Rheum, 43*(9), 1905-1915. doi:10.1002/1529-0131(200009)43:9<1905::AID-ANR1>3.0.CO;2-P

Reginster, J. Y., Deroisy, R., Rovati, L. C., Lee, R. L., Lejeune, E., Bruyere, O., & Gossett, C. (2001). Long-term effects of glucosamine sulphate on osteoarthritis progression: a randomised, placebo-controlled clinical trial. *The Lancet*, *357*(9252), 251-256

Richette, P., Doherty, M., Pascual, E., Barskova, V., Becce, F., Castañeda-Sanabria, J., Bardin, T. (2017). 2016 updated EULAR evidence-based recommendations for the management of gout. *Ann Rheum Dis, 76*(1), 29-42. doi:10.1136/annrheumdis-2016-209707

Roddy, E., & Choi, H. K. (2014). Epidemiology of gout. *Rheum Dis Clin North Am, 40*(2), 155-175. doi:10.1016/j.rdc.2014.01.001

Roddy, E., Zhang, W., & Doherty, M. (2007). The changing epidemiology of gout. *Nat Clin Pract Rheumatol, 3*(8), 443-449. doi:10.1038/ncprheum0556

Roemer, F. W., Eckstein, F., Hayashi, D., & Guermazi, A. (2014). The role of imaging in osteoarthritis. *Best Pract Res Clin Rheumatol, 28*(1), 31-60. doi:10.1016/j.berh.2014.02.002

Roman-Blas, J. A., Castañeda, S., Sánchez-Pernaute, O., Largo, R., Herrero-Beaumont, G., & Group, CS/GS Combined Therapy Study. (2017). Combined Treatment With Chondroitin Sulfate and Glucosamine Sulfate Shows No Superiority Over Placebo for Reduction of Joint Pain and Functional Impairment in Patients With Knee Osteoarthritis: A Six-Month Multicenter, Randomized, Double-Blind, Placebo-Controlled Clinical Trial. *Arthritis Rheumatol, 69*(1), 77-85. doi:10.1002/art.39819

Rosenthal, A. K. (2011). Crystals, inflammation, and osteoarthritis. *Curr Opin Rheumatol, 23*(2), 170-173. doi:10.1097/BOR.0b013e3283432d1f

Rubin, B. R., Burton, R., Navarra, S., Antigua, J., Londoño, J., Pryhuber, K. G.,Geba, G. P. (2004). Efficacy and safety profile of treatment with etoricoxib 120 mg once daily compared with indomethacin 50 mg three times daily in acute gout: a randomized controlled trial. *Arthritis Rheum, 50*(2), 598-606. doi:10.1002/art.20007

Rundles, R. W. (1985). The development of allopurinol. *Arch Intern Med, 145*(8), 1492-1503.

Schattner, A. (2014). Review: bDMARDs are linked to increased risk for infection compared with conventional synthetic DMARDs in RA. *Ann Intern Med, 161*(12), JC9. doi:10.7326/0003-4819-161-12-201412160-02009

Schlesinger, N. (2007). Diagnosis of gout. *Minerva Med, 98*(6), 759-767.

Schlesinger, N., Alten, R. E., Bardin, T., Schumacher, H. R., Bloch, M., Gimona, A., So, A. K. (2012). Canakinumab for acute gouty arthritis in patients with limited treatment options: results from two randomised, multicentre, active-controlled, double-blind trials and their initial extensions. *Ann Rheum Dis, 71*(11), 1839-1848. doi:10.1136/annrheumdis-2011-200908

Schlesinger, N., Norquist, J. M., & Watson, D. J. (2009). Serum urate during acute gout. *J Rheumatol, 36*(6), 1287-1289. doi:10.3899/jrheum.080938

Schoels, M., Knevel, R., Aletaha, D., Bijlsma, J. W., Breedveld, F. C., Boumpas, D. T., Smolen, J. S. (2010). Evidence for treating rheumatoid arthritis to target: results of a systematic literature search. *Ann Rheum Dis, 69*(4), 638-643. doi:10.1136/ard.2009.123976

Scott, D. L., Wolfe, F., & Huizinga, T. W. (2010). Rheumatoid arthritis. *Lancet, 376*(9746), 1094-1108. doi:10.1016/S0140-6736(10)60826-4

Segal, R., Lubart, E., Leibovitz, A., Iaina, A., & Caspi, D. (2006). Renal effects of low dose aspirin in elderly patients. *Isr Med Assoc J, 8*(10), 679-682.

Singh, J. A., Furst, D. E., Bharat, A., Curtis, J. R., Kavanaugh, A. F., Kremer, J. M., Saag, K. G. (2012). 2012 update of the 2008 American College of Rheumatology recommendations for the use of disease-modifying antirheumatic drugs and biologic agents in the treatment of rheumatoid arthritis. *Arthritis Care Res (Hoboken), 64*(5), 625-639. doi:10.1002/acr.21641

Singh, J. A., Noorbaloochi, S., MacDonald, R., & Maxwell, L. J. (2015). Chondroitin for osteoarthritis. *Cochrane Database Syst Rev, 1*, CD005614. doi:10.1002/14651858.CD005614.pub2

Smith, C. A., Petty, R. E., & Tingle, A. J. (1987). Rubella virus and arthritis. *Rheum Dis Clin North Am, 13*(2), 265-274.

Smith, C. A., Woolf, A. D., & Lenci, M. (1987). Parvoviruses: infections and arthropathies. *Rheum Dis Clin North Am, 13*(2), 249-263.

Smith, E., Hoy, D., Cross, M., Merriman, T. R., Vos, T., Buchbinder, R., March, L. (2014). The global burden of gout: estimates from the Global Burden of Disease 2010 study. *Ann Rheum Dis, 73*(8), 1470-1476. doi:10.1136/annrheumdis-2013-204647

Smolen, J. S., Landewé, R., Breedveld, F. C., Buch, M., Burmester, G., Dougados, M., van der Heijde, D. (2014). EULAR recommendations for the management of rheumatoid arthritis with synthetic and biological disease-modifying antirheumatic drugs: 2013 update. *Ann Rheum Dis, 73*(3), 492-509. doi:10.1136/annrheumdis-2013-204573

So, A., De Meulemeester, M., Pikhlak, A., Yücel, A. E., Richard, D., Murphy, V., Schlesinger, N. (2010). Canakinumab for the treatment of acute flares in difficult-to-treat gouty arthritis: Results of a multicenter, phase II, dose-ranging study. *Arthritis Rheum, 62*(10), 3064-3076. doi:10.1002/art.27600

Song, R., Lee, E. O., Lam, P., & Bae, S. C. (2003). Effects of tai chi exercise on pain, balance, muscle strength, and perceived difficulties in physical functioning in older women with osteoarthritis: a randomized clinical trial. *J Rheumatol, 30*(9), 2039-2044.

Stoffer, M. A., Schoels, M. M., Smolen, J. S., Aletaha, D., Breedveld, F. C., Burmester, G., Stamm, T. A. (2016). Evidence for treating rheumatoid arthritis to target: results of a systematic literature search update. *Ann Rheum Dis, 75*(1), 16-22. doi:10.1136/annrheumdis-2015-207526

Sundy, J. S., Baraf, H. S., Yood, R. A., Edwards, N. L., Gutierrez-Urena, S. R., Treadwell, E. L., Becker, M. A. (2011). Efficacy and tolerability of pegloticase for the treatment of chronic gout in patients refractory to conventional treatment: two randomized controlled trials. *JAMA, 306*(7), 711-720. doi:10.1001/jama.2011.1169

Sutaria, S., Katbamna, R., & Underwood, M. (2006). Effectiveness of interventions for the treatment of acute and prevention of recurrent gout--a systematic review. *Rheumatology (Oxford), 45*(11), 1422-1431. doi:10.1093/rheumatology/kel071

Terkeltaub, R. A., Furst, D. E., Bennett, K., Kook, K. A., Crockett, R. S., & Davis, M. W. (2010). High versus low dosing of oral colchicine for early acute gout flare: Twenty-four-hour outcome of the first multicenter, randomized, double-blind, placebo-controlled, parallel-group, dose-comparison colchicine study. *Arthritis Rheum, 62*(4), 1060-1068. doi:10.1002/art.27327

Towheed, T. E., Maxwell, L., Judd, M. G., Catton, M., Hochberg, M. C., & Wells, G. (2006). Acetaminophen for osteoarthritis. *Cochrane Database Syst Rev*(1), CD004257. doi:10.1002/14651858.CD004257.pub2

Tran, A. P., & Edelman, J. (2011). Interleukin-1 inhibition by anakinra in refractory chronic tophaceous gout. *Int J Rheum Dis, 14*(3), e33-37. doi:10.1111/j.1756-185X.2011.01629.x

Uebelhart, D., Malaise, M., Marcolongo, R., de Vathaire, F., DeVathaire, F., Piperno, M., Vignon, E. (2004). Intermittent treatment of knee osteoarthritis with oral chondroitin sulfate: a one-year, randomized, double-blind, multicenter study versus placebo. *Osteoarthritis Cartilage, 12*(4), 269-276. doi:10.1016/j.joca.2004.01.004

Uthman, O. A., van der Windt, D. A., Jordan, J. L., Dziedzic, K. S., Healey, E. L., Peat, G. M., & Foster, N. E. (2013). Exercise for lower limb osteoarthritis: systematic review incorporating trial sequential analysis and network meta-analysis. *BMJ, 347*, f5555.

Vallejo, R., de Leon-Casasola, O., & Benyamin, R. (2004). Opioid therapy and immunosuppression: a review. *Am J Ther, 11*(5), 354-365.

van den Bekerom, M. P., Lamme, B., Sermon, A., & Mulier, M. (2008). What is the evidence for viscosupplementation in the treatment of patients with hip osteoarthritis? Systematic review of the literature. *Arch Orthop Trauma Surg, 128*(8), 815-823. doi:10.1007/s00402-007-0447-z

van der Heide, A., Jacobs, J. W., Bijlsma, J. W., Heurkens, A. H., van Booma-Frankfort, C., van der Veen, M. J., & Hofman, D. M. (1996). The Effectiveness of Early Treatment with “Second-Line” Antirheumatic DrugsA Randomized, Controlled Trial. *Annals of internal medicine*, *124*(8), 699-707

Van Der Kooij, S. M., Goekoop-Ruiterman, Y. P., De Vries-Bouwstra, J. K., Güler-Yüksel, M., Zwinderman, A. H., Kerstens, P. J., & Huizinga, T. W. (2009). Drug-free remission, functioning and radiographic damage after 4 years of response-driven treatment in patients with recent-onset rheumatoid arthritis. *Annals of the rheumatic diseases*, *68*(6), 914-921.

van Eerd, M., Patijn, J., Lataster, A., Rosenquist, R. W., van Kleef, M., Mekhail, N., & Van Zundert, J. (2010). 5. Cervical facet pain. *Pain Pract, 10*(2), 113-123. doi:10.1111/j.1533-2500.2009.00346.x

van Saase, J. L., van Romunde, L. K., Cats, A., Vandenbroucke, J. P., & Valkenburg, H. A. (1989). Epidemiology of osteoarthritis: Zoetermeer survey. Comparison of radiological osteoarthritis in a Dutch population with that in 10 other populations. *Ann Rheum Dis, 48*(4), 271-280.

Wallace, K. L., Riedel, A. A., Joseph-Ridge, N., & Wortmann, R. (2004). Increasing prevalence of gout and hyperuricemia over 10 years among older adults in a managed care population. *J Rheumatol, 31*(8), 1582-1587.

Wallace, S. L., Robinson, H., Masi, A. T., Decker, J. L., McCarty, D. J., & Yü, T. F. (1977). Preliminary criteria for the classification of the acute arthritis of primary gout. *Arthritis Rheum, 20*(3), 895-900.

Wang, C., Schmid, C. H., Hibberd, P. L., Kalish, R., Roubenoff, R., Rones, R., & McAlindon, T. (2009). Tai Chi is effective in treating knee osteoarthritis: a randomized controlled trial. *Arthritis Rheum, 61*(11), 1545-1553. doi:10.1002/art.24832

Wang, C., Schmid, C. H., Iversen, M. D., Harvey, W. F., Fielding, R. A., Driban, J. B., McAlindon, T. (2016a). Comparative Effectiveness of Tai Chi Versus Physical Therapy for Knee Osteoarthritis: A Randomized Trial. *Ann Intern Med, 165*(2), 77-86. doi:10.7326/M15-2143

Wang, J., Barke, R. A., Charboneau, R., Schwendener, R., & Roy, S. (2008). Morphine induces defects in early response of alveolar macrophages to Streptococcus pneumoniae by modulating TLR9-NF-kappa B signaling. *J Immunol, 180*(5), 3594-3600.

Wasson, N. J., Varley, C. D., Schwab, P., Fu, R., & Winthrop, K. L. (2013). "Serious skin & soft tissue infections in rheumatoid arthritis patients taking anti-tumor necrosis factor alpha drugs: a nested case-control study". *BMC Infect Dis, 13*, 533. doi:10.1186/1471-2334-13-533

Westby, M. D., Wade, J. P., Rangno, K. K., & Berkowitz, J. (2000). A randomized controlled trial to evaluate the effectiveness of an exercise program in women with rheumatoid arthritis taking low dose prednisone. *J Rheumatol, 27*(7), 1674-1680.

Whiting, P. F., Smidt, N., Sterne, J. A., Harbord, R., Burton, A., Burke, M., Dieppe, P. (2010). Systematic review: accuracy of anti-citrullinated Peptide antibodies for diagnosing rheumatoid arthritis. *Ann Intern Med, 152*(7), 456-464; W155-466. doi:10.7326/0003-4819-152-7-201004060-00010

Wiese, A. D., Griffin, M. R., Stein, C. M., Mitchel, E. F., & Grijalva, C. G. (2016). Opioid Analgesics and the Risk of Serious Infections Among Patients With Rheumatoid Arthritis: A Self-Controlled Case Series Study. *Arthritis Rheumatol, 68*(2), 323-331. doi:10.1002/art.39462

Wilner, K. D., Rushing, M., Walden, C., Adler, R., Eskra, J., Noveck, R., & Vargas, R. (2002). Celecoxib does not affect the antiplatelet activity of aspirin in healthy volunteers. *J Clin Pharmacol, 42*(9), 1027-1030.

Winthrop, K. L. (2006). Serious infections with antirheumatic therapy: are biologicals worse? *Ann Rheum Dis, 65 Suppl 3*, iii54-57. doi:10.1136/ard.2006.058503

Woolf, A. D., & Pfleger, B. (2003). Burden of major musculoskeletal conditions. *Bull World Health Organ, 81*(9), 646-656.

Xu, H., Blair, N. T., & Clapham, D. E. (2005). Camphor activates and strongly desensitizes the transient receptor potential vanilloid subtype 1 channel in a vanilloid-independent mechanism. *J Neurosci, 25*(39), 8924-8937. doi:10.1523/JNEUROSCI.2574-05.2005

Yan, J. H., Gu, W. J., Sun, J., Zhang, W. X., Li, B. W., & Pan, L. (2013). Efficacy of Tai Chi on pain, stiffness and function in patients with osteoarthritis: a meta-analysis. *PLoS One, 8*(4), e61672. doi:10.1371/journal.pone.0061672

Yu, T. F., & Gutman, A. B. (1959). Study of the paradoxical effects of salicylate in low, intermediate and high dosage on the renal mechanisms for excretion of urate in man. *J Clin Invest, 38*(8), 1298-1315. doi:10.1172/JCI103905

Yunus, M., Masi, A. T., Calabro, J. J., Miller, K. A., & Feigenbaum, S. L. (1981). Primary fibromyalgia (fibrositis): clinical study of 50 patients with matched normal controls. *Semin Arthritis Rheum, 11*(1), 151-171.

Zhang, W., Doherty, M., Bardin, T., Pascual, E., Barskova, V., Conaghan, P., Therapeutics, EULAR Standing Committee for International Clinical Studies Including. (2006). EULAR evidence based recommendations for gout. Part II: Management. Report of a task force of the EULAR Standing Committee for International Clinical Studies Including Therapeutics (ESCISIT). *Ann Rheum Dis, 65*(10), 1312-1324. doi:10.1136/ard.2006.055269

Zhang, W., Doherty, M., Leeb, B. F., Alekseeva, L., Arden, N. K., Bijlsma, J. W., Zimmermann-Górska, I. (2007). EULAR evidence based recommendations for the management of hand osteoarthritis: report of a Task Force of the EULAR Standing Committee for International Clinical Studies Including Therapeutics (ESCISIT). *Ann Rheum Dis, 66*(3), 377-388. doi:10.1136/ard.2006.062091

Zhu, Y., Pandya, B. J., & Choi, H. K. (2011). Prevalence of gout and hyperuricemia in the US general population: the National Health and Nutrition Examination Survey 2007-2008. *Arthritis Rheum, 63*(10), 3136-3141. doi:10.1002/art.30520