

DAFTAR PUSTAKA

- Abate, M., Verna, S., Schiavone, C., Di Gregorio, P., Salini, V., 2015. Efficacy and safety profile of a compound composed of platelet-rich plasma and hyaluronic acid in the treatment for knee osteoarthritis (preliminary results). European Journal of Orthopaedic Surgery & Traumatology 25, 1321–1326. doi:10.1007/s00590-015-1693-3
- American College of Rheumatology Subcommittee on Osteoarthritis Guidelines, 2000. Recommendations for the medical management of osteoarthritis of the hip and knee: 2000 update. *Arthritis Rheum.*;43(9):1905-1915.
- Amoako, A. O. & Pujalte, G.G. A. 2014. Osteoarthritis in young, active, and atheletic individuals. Clinical Medicine Insights
- Andia I, Maffulli N., 2013. Platelet-rich plasma for managing pain and inflammation in osteoarthritis. *Nat Rev Rheumatol* ;9(12): 721–730
- Anitua E, Sanchez M, Nurden AT, Nurden P, Orive G, Andia I, 2006: New insights into and novel applications for platelet-rich fibrin therapies. *Trends Biotechnol*, 24:227-234.
- Asghar Ghasemi 1, Saleh Zahedias,2012;Tests for Statistical Analysis: A Guide for Non-Statisticians. *Int J Endocrinol Metab.* 10(2):486-489. DOI: 10.5812/ijem.3505 Normality
- Basaran, Sibel, Guzel, et al., 2010. Validity, reliability, and comparison of the WOMAC osteoarthritis index and Lequesne algofunctional index in Turkish patients with hip or knee osteoarthritis. *Clinical rheumatology*, 29(7), 749-756.
- Bastow ER, Byers S, Golub SB, et al., 2008. Hyaluronan synthesis and degradation in cartilage and bone. *Cell Mol Life Sci*; **65**: 395–413.
- Bellamy N, Campbell J, Robinson V, et al., 2006. Intraarticular corticosteroid for treatment of osteoarthritis of the knee. *Cochrane Database Syst Rev.*; (2):CD005328.
- Bellamy N., 2002. WOMAC Osteoarthritis Index User Guide. Version V. Brisbane, Australia. - See more at: <https://www.rheumatology.org/I-Am-A/Rheumatologist/Research/Clinician-Researchers/Western-Ontario-McMaster-Universities-Osteoarthritis-Index-WOMAC#sthash.oombfqlW.dpu>
- Blagojevic M, Jinks C, Jeff ery A, Jordan KP. 2010. Risk factors for onset of osteoarthritis of the knee in older adults: a systematic review and meta-analysis. *Osteoarthritis Cartilage*; **18**: 24–33
- Busija L, Bridgett L, Williams SR, et al. 2010. Osteoarthritis. *Best Pract Res Clin Rheumatol*;24:757–68.

- Cerza F, Carnì S, Carcangiu A, et al., 2012. Comparison between hyaluronic acid and platelet-rich plasma, intra-articular infiltration in the treatment of gonarthrosis. *Am J Sports Med* ;40(12): 2822–2827
- Conde J, Scotece M, Gomez R, et al., 2011. Adipokines and osteoarthritis: novel molecules involved in the pathogenesis and progression of disease. *Arthritis (Egypt)*
- Cole,BJ.,Karas V.,Hussey K., Pilz K., and Lisa A. 2016. Hyaluronic Acid Versus Platelet-Rich Plasma: A Prospective, Double-Blind Randomized Controlled Trial Comparing Clinical Outcomes and Effects on Intra-articular Biology for the Treatment of Knee. *Fortier Am J Sports Med*
- Crichton, N., 2001. Visual analogue scale (VAS).*J Clin Nurs* 10, 706–6.
- Cross, M., Smith, E., Hoy, D., Nolte, S., Ackerman, I., Fransen, M., Bridgett, L., Williams, S., Guillemin, F., Hill, C.L., Laslett, L.L., Jones, G., Cicuttini, F., Osborne, R., Vos, T., Buchbinder, R., Woolf, A., March, L., 2014. The global burden of hip and knee osteoarthritis: estimates from the Global Burden of Disease 2010 study. *Annals of the Rheumatic Diseases* 73, 1323–1330. doi:10.1136/annrheumdis-2013-204763
- Dohan,David M. 2014.Classification of platelet concentrates (Platelet-Rich Plasma-PRP, Platelet-Rich Fibrin-PRF) for topical and infiltrative use in orthopedic and sports medicine: current consensus, clinical implications and perspectives. *Muscles, Ligaments and Tendons Journal*
- Dhillon, R.S., Schwarz, E.M., Maloney, M.D., 2012. Platelet-rich plasma therapy-future or trend? *Arthritis research & therapy* 14, 219.
- Dieppe P., 2011 Developments in osteoarthritis. *Rheumatology (Oxford)*.;50:245-247. <https://doi.org/10.1093/rheumatology/keq373>
- Engebretsen L, Steff en K, Alsousou J, et al., 2010. IOC consensus paper on the use of platelet-rich plasma in sports medicine.*Br J Sports Med*, 44:1072-1081.
- Eppley BL, Woodell JE, Higgins J, 2004. Platelet quantifi cat ion and growth factor analysis from platelet-rich plasma: implications for wound healing. *Plastic Reconstruct Surg*, 114:1502-1508.
- Everts PA, Knape JT, Weibrich G, Schonberger JP, Hoffmann J, 2006. Platelet-rich plasma and platelet gel: a review.*J Extra Corpor Technol*, 38:174-187.
- Filardo G, Kon E, Pereira Ruiz MT, et al., 2012. Platelet-rich plasma intra-articular injections for cartilage degeneration and osteoarthritis: single-versus double-spinning approach. *Knee Surg Sports Traumatol Arthrosc* 20(10):20–2091.
- Galer, B.S., Jensen, M.P., 1997. Development and preliminary validation of a pain measure specific to neuropathic pain The Neuropathic Pain Scale. *Neurology* 48, 332–338.

- Geba GP, Weaver AL, Polis AB, et al., 2002. Acetaminophen, Celecoxib Trial (VACT) Group. Efficacy of rofecoxib, celecoxib, and acetaminophen in osteoarthritis of the knee: a randomized trial [published correction appears in *JAMA*. 2002;287(8):989]. *JAMA*.;287(1):64-71.
- Glyn-Jones, S., Palmer, A.J.R., Agricola, R., Price, A.J., Vincent, T.L., Weinans, H., Carr, A.J., 2015. Osteoarthritis. *The Lancet* 386, 376–387.
- Gore M, et al. Use and Costs of Prescription Medications and Alternative Treatments in Patients With Osteoarthritis and Chronic Low Back Pain in Community-Based Settings. *Pain Pract*. 2012;12: 550-560.
- Gudbergsen H, Boesen M, Lohmander LS, et al., 2012. Weight loss is effective for symptomatic relief in obese subjects with kneeosteoarthritis independently of joint damage severity assessed by high-field MRI and radiography. *Osteoarthritis Cartilage*; 20: 495–502.
- Halpern, B., Chaudhury, S., Rodeo, S.A., Hayter, C., Bogner, E., Potter, H.G., Nguyen, J., 2013. Clinical and MRI outcomes after platelet-rich plasma treatment for knee osteoarthritis. *Clinical Journal of Sport Medicine* 23, 238–239.
- Handa, D.R., 2007. Asia Pacific League of Associations for Rheumatology (APLAR) Fellowship Grants 2007. *APLAR Journal of Rheumatology* 10, 78–78.
- Haq I, Murphy E, Dacre J, 2003. Osteoarthritis. *Postgrad Med J*;79:377–383
- Hsu, W.K., Mishra, A., Rodeo, S.R., Fu, F., Terry, M.A., Randelli, P., Canale, T.S., Kelly, F.B., 2013. Platelet-rich Plasma in Orthopaedic Applications: Evidence-based Recommendations for Treatment. *Journal of the American Academy of Orthopaedic Surgeons* 21, 739–748.
- Hunter, D.J., 2015. Viscosupplementation for Osteoarthritis of the Knee. *New England Journal of Medicine* 372, 1040–1047. doi:10.1056/NEJMct1215534
- Hunziker EB. 2002. Articular cartilage repair: basic science and clinical progress. A review of the current status and prospects. *Osteoarthritis Cartilage*; 10: 432–463.
- Ilana Ackerman, PT, PhD, 2017 Hip and Knee Osteoarthritis Affects Younger People, Too, *journal of orthopaedic & sports physical therapy*.
- Johnson, V.L., Hunter, D.J., 2014. The epidemiology of osteoarthritis. *Best Practice & Research Clinical Rheumatology* 28, 5–15. doi:10.1016/j.bepr.2014.01.004
- Kapoor, J. Martel-Pelletier, D. Lajeunesse, J.-P. Pelletier, H. Fahmi, 2011. Role of proinflammatory cytokines in the pathophysiology of osteoarthritis, *Nat. Rev. Rheumatol.* 7 33–42. <http://dx.doi.org/10.1038/nrrheum.2010.196>.

- Karsdal MA, Woodworth T, Henriksen K, et al., 2011. Biochemical markers of ongoing joint damage in rheumatoid arthritis: current and future applications, limitations and opportunities. *Arthritis Research Therapy*
- Kellgren JH, Lawrence JS. 1957 Radiological assessment of osteo-arthrosis. *Ann Rheum Dis.*; 16(4):494-502
- Khan IM, Williams R, Archer CW. 2009. One flew over the progenitor's nest: migratory cells find a home in osteoarthritic cartilage. *Cell Stem Cell*; 4: 282–284
- Kon E, Buda R, Filardo G, et al., 2010. Platelet-rich plasma: intra-articular knee injections produced favorable results on degenerative cartilage lesions. *Knee Surg Sports Traumatol Arthrosc.*; 18:472-479.
- Kon E, Filardo G, Drobnić M, et al., 2012. Non-surgical management of early knee osteoarthritis. *Knee Surg Sports Traumatol Arthrosc* 20(3):436–449
- Lee HR, Park KM, Joung YK, et al., 2012. Plateletrich plasma loaded hydrogel scaffold enhances chondrogenic differentiation and maturation with up-regulation of CB1 and CB2. *J Control Release* 159(3):332–337
- Lanza R, Langer R, Vacanti JP. 2011. Principles of Tissue Engineering. 3rd edn. Academic Press: Burlington, VT, USA.
- Lawrence RC, Felson DT, Helmick CG, et al, 2008. Estimates of the prevalence of arthritis and other rheumatic conditions in the United States. Part II. *Arthritis Rheum*; 58: 26–35.
- Liborio Ingala Martini¹ Alessio Giai¹ Chiara Fossati¹ Filippo Randelli¹ Pietro Randelli¹ Davide Cucchi^{1,2}, 2017. Single Platelet-Rich Plasma Injection for Early Stage of Osteoarthritis of the Knee. *Joints* ;5:2–6.
- Maiiese K., 2016. Picking a Bone With WISP1 (CCCN4): New Strategies Against Degenerative Joint Disease. *J Transl Sci*.
- Maleki-Fischbach M, Jordan JM, 2010. New developments in osteoarthritis. Sex differences in magnetic resonance imaging-based biomarkers and in those of joint metabolism. *Arthritis Res Ther*; 12(4):212.
- Marcu, K. B., Otero, M., Olivotto, E., Borzi, R. M. & Goldring, M. B. 2010. NF-κB signaling: multiple angles to target OA. *Curr. Drug Targets* 11, 599–613.
- Meszaros, E., C.J. Malemud, 2012. Prospects for treating osteoarthritis: enzyme-protein interactions regulating matrix metalloproteinase activity, *Ther. Adv. Chronic Dis.* 3 219–229. <http://dx.doi.org/10.1177/2040622312454157>.
- Moussa, M., 2017. Platelet rich plasma (PRP) induces chondroprotection via increasing autophagy, anti-inflammatory markers, and decreasing apoptosis in human osteoarthritic cartilage. *Experimental Cell Research*, <http://dx.doi.org/10.1016/j.yexcr.2017.02.012>

- Murphy L, Schwartz TA, Helmick CG, Renner JB, Tudor G, Koch G, Dragomir A, Kalsbeek WD, Luta G, Jordan JM, 2008. Lifetime risk of symptomatic knee osteoarthritis. *Arthritis Rheum.* Sep 15; 59(9):1207-13.
- Marcacci M, Rodkey WG, Steadman JR, et al., 2012. Surgical treatment for early osteoarthritis. Part I: cartilage repair procedures. *Knee Surg Sports Traumatol Arthrosc* 20(3): 450–466
- Muraglia A, Ottonello C, Spano` R, et al., 2013. Biological activity of a standardized freeze-dried platelet derivative to be used as cellculture medium supplement.Platelets.doi:10.3109/09537104. 2013.803529
- Muthuri, McWilliams, Doherty, Zhang, 2011. History of knee injuries and knee osteoarthritis: a meta-analysis of observational studies. *Osteoarthritis Cartilage;* **19:** 1286–93.
- National Institute of Arthritis and Musculoskeletal and Skin Diseases., 2014. Fast Facts: An Easy-to-Read Series of Publications for the Public.
- Niederberger, E. & Geisslinger, G., 2008. The IKK–NF-κB pathway: a source for novel molecular drug targets in pain therapy? *FASEB J.* 22, 3432–3442
- Ornetti,P. ,Nourissat G., F. Berenbaum, J. Sellam, P. Richette, X. Chevalier, et al.,2016. Does platelet-rich plasma have a role in the treatment of osteoarthritis?, *Jt Bone Spine Rev. Rhum.* 83 31–36. <http://dx.doi.org/10.1016/j.jbspin.2015.05.002>.
- Oliveria SA, Felson DT, Reed JI, Cirillo PA, Walker AM, 1995. Incidence of symptomatic hand, hip, and knee osteoarthritis among patients in a health maintenance organization. *Arthritis Rheum.* Aug; 38(8):1134-41.
- Park SI, Lee HR, Kim S, et al., 2012. Timesequential modulation in expression of growth factors from platelet-rich plasma (PRP) on the chondrocyte cultures. *Mol Cell Biochem* 361(1–2):9–17
- Patel, S., Dhillon, M.S., Aggarwal, S., Marwaha, N., Jain, A., 2013. Treatment With Platelet-Rich Plasma Is More Effective Than Placebo for Knee Osteoarthritis: A Prospective, Double-Blind, Randomized Trial. *The American Journal of Sports Medicine* 41, 356–364. doi:10.1177/0363546512471299
- Pearle AD, Warren RF, Rodeo SA. 2005. Basic science of articular cartilage and osteoarthritis. *Clin Sports Med;* 24: 1–12.
- Peerbooms, J.C., Sluimer, J., Bruijn, D.J., Gosens, T., 2010. Positive Effect of an Autologous Platelet Concentrate in Lateral Epicondylitis in a Double-Blind Randomized Controlled Trial: Platelet-Rich Plasma Versus Corticosteroid Injection With a 1-Year Follow-up. *The American Journal of Sports Medicine* 38, 255–262. doi:10.1177/0363546509355445
- Pereira D, Ramos E, Branco J.2015. Osteoarthritis. *Acta Med Port.;*28(1):99-106.

- Pereira RC, Scaranari M, Benelli R, et al., 2013. Dual effect of platelet lysate on human articular cartilage: a maintenance of chondrogenic potential and a transient proinflammatory activity followed by an inflammation resolution. *Tissue Eng Part A* 19(11–12):1476–1488
- Perrot,Serge , Prof, MD, PhD., 2015 Osteoarthritis pain. *Best Practice & Research Clinical Rheumatology* 29
- Pietrzak, W.S., Berghoff, W.J., Rhodes, R.D., 2006. Platelet-rich plasma application during closure following total knee arthroplasty. *Orthopedics* 29.
- Plotnikoff, R., Karunamuni, N., Lytvynak, E., Penfold, C., Schopflocher, D., Imayama, I., Johnson, S.T., Raine, K., 2015. Osteoarthritis prevalence and modifiable factors: a population study. *BMC Public Health* 15.doi:10.1186/s12889-015-2529-0
- Pua, Yong-Hao, Cowan et al., 2009. The Lower Extremity Functional Scale could be an alternative to the Western Ontario and McMaster Universities Osteoarthritis Index physical function scale. *Journal of clinical epidemiology*, 62(10). 1103-1111
- Roubelakis, M.G., Trohatou, O., Roubelakis, A., Mili, E., Kalaitzopoulos, I., Papazoglou, G., Pappa, ?alliopi I., Anagnou, N.P., 2014. Platelet-Rich Plasma (PRP) Promotes Fetal Mesenchymal Stem/Stromal Cell Migration and Wound Healing Process. *Stem Cell Reviews and Reports* 10, 417–428. doi:10.1007/s12015-013-9494-8
- Sampson, S., Reed, M., Silvers, H., Meng, M., Mandelbaum, B., 2010a. Injection of Platelet-Rich Plasma in Patients with Primary and Secondary Knee Osteoarthritis: A Pilot Study. *American Journal of Physical Medicine & Rehabilitation* 89, 961–969. doi:10.1097/PHM.0b013e3181fc7edf
- Sampson S, Gerhardt M, Mandelbaum B, 2008. Platelet rich plasma injection grafts for musculoskeletal injuries: a review. *Curr Rev Musculoskelet Med*, 1:165-174.
- Sante, L et al., 2016.Intra-articular hyaluronic acid vs platelet-rich plasma in the treatment of hip osteoarthritis. *Med Ultrason*.
- Schwarz A, 2009. A Promising Treatment for Athletes, in Blood. *The New York Times* [<http://www.nytimes.com/2009/02/17/sports/17blood.html>]
- Solomon L, 2010, Apley's System of Orthopaedics and Fractures edn. 9th, Hodder Education, London.
- Srikanth VK¹, Fryer JL, Zhai G, Winzenberg TM, Hosmer D, Jones G., 2005. A meta-analysis of sex differences prevalence, incidence and severity of osteoarthritis. *Osteoarthritis Cartilage*. 13(9):769-81.
- Stratford, P.W., Kennedy, D.M., Woodhouse, L.J., Spadoni, G.F., 2007. Measurement properties of the WOMAC LK 3.1 pain scale. *Osteoarthritis and Cartilage* 15, 266–272. doi:10.1016/j.joca.2006.09.005.

- Sugiyono. 2012. *Metode Penelitian Administrasi*. Cetakan Ke-20. Penerbit Alfabeta. Bandung.
- Van Buul GM, Koevoet WL, Kops N, et al., 2011. Platelet-rich plasma releasate inhibits inflammatory processes in osteoarthritic chondrocytes. Am J Sports Med 39(11):2362–2370
- V. Tchetina, Developmental mechanisms in articular cartilage degradation in osteoarthritis, Arthritis 2011 (2011) 683970. <http://dx.doi.org/10.1155/2011/683970>.
- Wellington K. Hsu, MD, Allan Mishra, MD, Scott R. Rodeo, MD et al. 2013. Platelet-rich Plasma in Orthopaedic Applications: Evidence-based Recommendations for Treatment. J Am Acad Orthop Surg.. ;21(12):739-48. doi: 10.5435/JAAOS-21-12-739.
- Werner S, Grose R, 2003. Regulation of wound healing by growth factors and cytokines. *Physiol Rev*, 83:835-870.
- Williams, Valerie J, Piva et al., 2012. Comparison of reliability and responsiveness of patient-reported clinical outcome measures in knee osteoarthritis rehabilitation, journal of orthopedic and sports physical therapy, 42(8), 716
- Wittenauer, R., Smith, L., Aden, K., 2013. Background Paper 6.12 Osteoarthritis.Priority Medicines for Europe and the World «A Public Health Approach to Innovation».—2013.—<http://www.who.int>.
- World Health Organization .World Health Report 2002.Reducing Risks, Promoting Healthy Life.Geneva, WHO.<http://www.who.int/chp/topics/rheumatic/en/>
- Wu CC, Chen WH, Zao B, et al., 2011. Regenerative potentials of platelet-rich plasma enhanced by collagen in retrieving pro-inflammatory cytokine-inhibited chondrogenesis. Biomaterials 32(25):5847–5854
- Xu, Zhengliang. 2017.Comparative evaluation of leukocyte- and platelet-rich plasma and pure platelet-rich plasma for cartilage regeneration. Scientific Reports
- Yin Z, Yang X, Jiang Y, et al., 2013. Platelet-rich plasma combined with agarose as abioactive scaffold to enhance cartilage repair: an in vitro study.J Biomater Appl. doi:10.1177/0885328213492573
- Yin, Wen-Jing et al. 2016. Advantages of Pure Platelet-Rich Plasma Compared with Leukocyte- and Platelet-Rich Plasma in Treating Rabbit Knee Osteoarthritis. Medical Science Monitor.
- Zhang, Ouyang, Dass, Xu, 2016. Current research on pharmacologic and regenerative therapies for osteoarthritis. Bone Research 4, 15040. doi:10.1038/boneres.2015.40