

DAFTAR PUSTAKA

1. RI BK. Riset Kesehatan Dasar 2013. Kemenkes RI. 2013.
2. Association IR. Rekomendasi IRA untuk Diagnosis dan Penatalaksanaan Osteoarthritis. Jakarta; 2014.
3. Centers for Disease Control and Prevention (CDC). Osteoarthritis [Internet]. 2018 [cited 2018 Dec 5]. Available from: <https://www.cdc.gov/arthritis/basics/osteoarthritis.htm>.
4. Wells BG, DiPiro JT, Schwinghammer TL, DiPiro C V. Pharmacotherapy handbook. 9th ed. New York: McGraw-Hill Professional Publishing; 2015. xiii, 1038 p.
5. Kercher J. Knee Replacement Surgery: What to Expect [Internet]. 2019 [cited 2019 Jan 6]. Available from: <https://www.webmd.com/osteoarthritis/knee-replacement-18/knee-surgery-what-expect>
6. Merlina M, Lubis AMT, Ardhianie AC, Kusnadi Y, Regenic L, Adiluhung PTB. Tatalaksana Terapi Sel Punca Mesenkimal Otologus untuk Cedera Tulang Rawan Sendi Lutut. 2015;42(11):870–4.
7. OARSI. Osteoarthritis : A Serious Disease , Submitted to the U . S . Food and Drug Administration. 2016;
8. Kalra K, Tomar PC. Stem Cell: Basics, Classification and Applications. Am J Phytomedicine Clin Ther [Internet]. 2014;2(7):913–30. Available from: www.ajpct.org
9. Kode JA, Mukherjee S, Joglekar MV HA. Mesenchymal Stem Cells: Immunobiology and Role in Immunomodulation and Tissue Regeneration. Cytotherapy J Cell Ther. 2009;11(4):377–91.
10. C. BOURZAC, L. C. SMITH†, P. VINCENT, G. BEAUCHAMP J-PL and SL. Isolation of equine bone marrow-derived mesenchymal stem cells: a comparison between three protocols. EQUINE Vet J. 2010;42(6):519–27.
11. Yoshimura, H; Sekiya, I; Sakaguchi Y; Yagishita, K; Shinomiya, K; Muneta T. Comparison of Rat Mesenchymal Stem Cells Derived from Bone Marrow, Synovium, Periosteum, Adipose, and Muscle. 2004;966.

12. Rebelatto CK1, Aguiar AM, Moretão MP, Senegaglia AC, Hansen P, Barchiki F, Oliveira J, Martins J, Kuligovski C, Mansur F, Christofis A, Amaral VF, Brofman PS, Goldenberg S, Nakao LS CA. Dissimilar differentiation of mesenchymal stem cells from bone marrow, umbilical cord blood, and adipose tissue. 2008;233(7):901–13.
13. Stewart MC, Stewart AA. Mesenchymal Stem Cells : Characteristics , Sources , and Mechanisms of Action. Vet Clin NA Equine Pract [Internet]. 2011;27(2):243–61. Available from: <http://dx.doi.org/10.1016/j.cveq.2011.06.004>
14. Pratama I. Isolasi dan karakterisasi sel punca mesenkimal dari jaringan sinovium pasien osteoarthritis derajat IV. 2018.
15. DiPiro J, Talbert R, Yees GC, Matzke GR. Pharmacotherapy A Pathophysiologic Approach. 2005.
16. Staff M. Osteoarthritis [Internet]. 2018 [cited 2018 Dec 10]. Available from: <https://www.mayoclinic.org/diseases-conditions/osteoarthritis/symptoms-causes/syc-20351925>
17. Ashkavand Z, Malekinejad H, Vishwanath BS. The pathophysiology of osteoarthritis The pathophysiology of osteoarthritis. JOPR J Pharm Res [Internet]. 2013;7(1):132–8. Available from: <http://dx.doi.org/10.1016/j.jopr.2013.01.008>
18. Soeroso J, Isbagio H, Kalim H, Broto R PR. Osteoarthritis: Buku ajar ilmu penyakit dalam (edisi keempat). Jakarta: Pusat Penerbitan Ilmu Penyakit Dalam Fakultas Kedokteran Universitas Indonesia; 2006.
19. Orthopaedia. Synovial Membrane [Internet]. 2012 [cited 2018 Dec 11]. Available from: <https://www.orthopaedicsone.com/display/Main/Synovial+membrane>
20. Khan S. Synovial Membrane [Internet]. 2018 [cited 2018 Dec 10]. Available from: <https://bodytomy.com/synovial-membrane>
21. MC. SC& S. Total Knee Replacement [Internet]. 2018 [cited 2018 Dec 20]. Available from: https://www.medicinenet.com/total_knee_replacement/article.htm
22. Staff M. Knee Replacement [Internet]. 2017 [cited 2018 Dec 10]. Available from: <https://www.mayoclinic.org/tests-procedures/knee-replacement/about/pac-20385276>
23. Jared R. H. Foran SJF. Total Knee Replacement [Internet]. 2015 [cited 2018

Dec 20]. Available from: <https://orthoinfo.aaos.org/en/treatment/total-knee-replacement/%0A%0A>

24. Marlina M, Jannah M, Khairunnisa A, Anggrellana Zalmi M, Armin F, Ali H, et al. Cross Sectional Evaluation of Interleukin-4 and Collagen Type-1 in Knee Osteoarthritis. *Res J Pharm Biol Chem Sci*. 2017;8(1):122–126.
25. Halim D, Murti H, Sandra F, Boediono A, Djuwanto T SB. *Stem cell dasar teori & aplikasi klinis*. Jakarta: Erlangga; 2010.
26. Bethesda. Stem Cell Information [Internet]. 2016 [cited 2018 Dec 10]. p. NIH Stem Cell Information Home Page. Available from: <https://stemcells.nih.gov/info/basics.htm>.
27. Hartono B, Evans M, Smithies O. Sel Punca : Karakteristik , Potensi dan Aplikasinya Stem cell : Charateristics , Its Potency and Application. 2016;22(60).
28. Rif'ati L, Rinendyaputri R, Dany F, Zainuri M, Noviantari A, Novianti R, et al. *Induksi In-Vitro Sel Punca Mesenkim dari Tali Pusat Manusia Menjadi Sel Limbal*. Jakarta; 2012.
29. Dominici M, Blanc K Le, Mueller I, Marini FC, Krause DS, Deans RJ, et al. Minimal criteria for defining multipotent mesenchymal stromal cells . The International Society for Cellular Therapy position statement. 2006;8(4):315–7.
30. Cell P. *Adipogenic Differentiation and Analysis of MSC*. Heidelberg; 2015.
31. Cell P. *Osteogenic Differentiation and Analysis of MSC*. Heidelberg; 2015.
32. Contentin R, Bertoni L, Gomez-leduc T, Branly T, Jacquet S, Betsch J, et al. *Chondrogenic Differentiation of Defined Equine Mesenchymal Stem Cells Derived from Umbilical Cord Blood for Use in Cartilage Repair Therapy*.
33. Gibco. *Gibco Cell Culture Basics Handbook*. Thermo Fisher Scientific; 2016.
34. Doiron L. 7 Steps for Successful Basic Primary Cell Isolation [Internet]. 2015 [cited 2018 Dec 10]. Available from: <https://www.dls.com/biopharma/blog/7-steps-for-successful-basic-primary-cell-isolation>
35. ATCC. *Animal Cell Culture Guide*. Manassas: University Blvd; 2014.
36. JMW S. *Essential Development Biology*. Oxford: Willey-BlackWell; 2013.
37. National Institutes of Health. Stem Cell Information [Internet]. Bethesda. 2016

[cited 2019 Jul 3]. Available from: [//stemcells.nih.gov/info/basics/3.htm](http://stemcells.nih.gov/info/basics/3.htm)

38. Curiosity. Stem Cell Differentiation [Internet]. 2013 [cited 2018 Dec 11]. p. 1–3. Available from: <http://www.explorecuriosity.org/Portals/2/Themes/Stem Cell Differentiation.pdf>
39. Petty RE. Chapter 2 - Structure and Function. In: Textbook of Pediatric Rheumatology [Internet]. Seventh Ed. Elsevier Inc.; 2016. p. 5-13.e2. Available from: <http://dx.doi.org/10.1016/B978-0-323-24145-8.00002-8>
40. Bonewald LF. Cell – Cell and Cell – Matrix Interactions in Bone. In: Handbook of Glycomics [Internet]. Second Ed. Elsevier Inc.; 2010. p. 2647–62. Available from: <http://dx.doi.org/>
41. Miettinen S, Sarkanen JR, Ashammakhi N. Adipose Tissue and Adipocyte Differentiation: Molecular and Cellular Aspects and Tissue Engineering Applications. In: Tissue Engineering. 2008.
42. Doyle A, Griffiths JB. Cell of animal cells: a manual of basic technique. 5th ed. New York: John Wiley & Sons Inc.; 1998.
43. Di Cesare PE, Haudenschild DR, Samuels J, Abramson SB. Pathogenesis of Osteoarthritis. Kelley Firestein’s Textb Rheumatol [Internet]. 2017 Jan 1 [cited 2019 Jun 11];1685-1704.e8. Available from: <https://www.sciencedirect.com/science/article/pii/B978032331696500098X>
44. Cashman KD, Ginty F. BONE. Encycl Food Sci Nutr [Internet]. 2003 Jan 1 [cited 2019 Jun 13];557–65. Available from: <https://www.sciencedirect.com/science/article/pii/B012227055X001115>
45. Chazotte B. Labeling Golgi with fluorescent ceramides. Cold Spring Harb Protoc. 2012;7(8):913–5.
46. Sigma-Aldrich Co. Enzymes for Cell Detachment and Tissue Dissociation. BioFiles Life Sci Res [Internet]. 2006;(2):1–13. Available from: https://www.sigmaaldrich.com/content/dam/sigma-aldrich/docs/Sigma/General_Information/2/biofiles_issue2.pdf
47. RI K. Farmakope Indonesia. Edisi IV. Jakarta; 1995.
48. Types T, Hybrid M, Nature C, Biology N, Autoclavable A, Cultured P, et al. Minimum Essential Medium Eagle (MEM) Minimum Essential Medium (MEM), developed by Harry Eagle , is one of the most widely used of all synthetic cell culture media . Early attempts to cultivate normal mammalian fibroblasts and certain subtypes of HeLa. Culture. 1976;296(1975):428–33.

49. HiMedia. Dulbecco's Modified Eagle Medium (DMEM) - Product information. 2011;1-5. Available from: <http://himedialabs.com/TD/AT068.pdf>
50. Sotiropoulou PA, Perez SA, Salagianni M, Baxevanis CN, Papamichail M. Characterization of the Optimal Culture Conditions for Clinical Scale Production of Human Mesenchymal Stem Cells. *Stem Cells* [Internet]. 2006;24(2):462-71. Available from: <http://doi.wiley.com/10.1634/stemcells.2004-0331>
51. Bank D. Amphotericin B [Internet]. 2019 [cited 2019 Jun 16]. Available from: <https://www.drugbank.ca/drugs/DB00681>
52. National Center for Biotechnology Information. Gentamycin [Internet]. [cited 2019 Jun 16]. Available from: <https://pubchem.ncbi.nlm.nih.gov/compound/Gentamycin>
53. Al-Sabah A, Jessop ZM, Whitaker IS, Thornton C. Cell preparation for 3D bioprinting. *3D Bioprinting Reconstr Surg* [Internet]. 2018 Jan 1 [cited 2019 Jun 17];75-88. Available from: <https://www.sciencedirect.com/science/article/pii/B9780081011034000065>
54. Hasibuan SAP. Potensi Karakteristik dan Diferensiasi Sel Punca Mesenkimal Sumsum Tulang Krista Iliaka Pasien Lupus Eritematosus Sistemik yang Menderita Nekrosis Avaskular Kaput Femur. Universitas Indonesia; 2015. Available from: <http://lib.ui.ac.id/detail?id=20415217&lokasi=lokal>
55. Javidan Y, Schilling TF. Development of Cartilage and Bone. *Methods Cell Biol* [Internet]. 2004 Jan 1 [cited 2019 Jun 17];76:415-36. Available from: <https://www.sciencedirect.com/science/article/pii/S0091679X04760185>
56. IHC World. Alizarin Red S Staining Protocol for Calcium [Internet]. [cited 2019 Jun 17]. Available from: http://www.ihcworld.com/_protocols/special_stains/alizarin_red_s.htm