

DAFTAR PUSTAKA

- Allickson J.G., Sanchez A., Yefimenko N., Borlongan C.V., Sanberg P.R., 2011, Recent studies assessing the proliferative capability of a novel adult stem cell identified in menstrual blood, *Open Stem Cell J.* 3(2011):4-10.
- Bernal W., Auzinger G., Dhawan A., Wendon J., 2010, Acute liver failure, *Lancet* 376(9736):190–201.
- Bigoniya P., Shukla A., Singh C.S., 2010, Evaluation of hepatic microsomal enzyme functional integrity on picroliv pretreatment against CCl₄ induced hepatotoxicity, *International Journal of Pharmacology* 6: 200-207.
- Börger V., Bremer M., Ferrer-Tur R., Gockeln L., Stambouli O., Becic A., Giebel B., 2017, Mesenchymal stem/stromal cell-derived extracellular vesicles and their potential as novel immunomodulatory therapeutic agents, *Int J Mol Sci.* 18(7): 1450.
- Byass P., 2014, The global burden of liver disease: a challenge for methods and for public health, *BMC Med* 12:159.
- Dehghanifard A., Saki N., Ahmadvand M., MahmoodiniaMaymand M., MosahebiMohammadi M., Soleimani M., 2012, Mesenchymal stem cell; biology, application and role in regenerative medicine, *Sci J Iran Blood Transfus Organ*, 8(4):306–320.
- Ding D., Shyu W., Lin S., 2011, Mesenchymal stem cells, *Cell Transpl.* 20:5–14
- Eggenhofer E., Luk F., Dahlke M.H., Hoogduijn M.J., 2014, The life and fate of mesenchymal stem cells, *Front Immunol.* 5:148.
- Faiz O., Blackburn S., Moffat D., 2013, *Anatomy at a Glance, 3th ed*, John Wiley & Son, Oxford, English.
- Garcia-Tsao G., Lim J., Monto A., Yee H., Durfee J., Dieperink E., 2009, Management and treatment of patients with cirrhosis and portal hypertension: Recommendations from the department of veterans affairs hepatitis c resource center program and the national hepatitis c program, *Am J Gastroenterol*, 104(7):1802-29.
- Gomez-Aristizabal A., Keating A., Davies J.E., 2009, Mesenchymal stromal cells as supportive cells for hepatocytes, *Mol Ther* 17: 1504–1508.
- Haga H., Yan I.K., Takahashi K., Matsuda A., Patel T., 2017, Extracellular vesicles from bone marrow-derived mesenchymal stem cells improve

survival from lethal hepatic failure in mice, *Stem Cells Translational Medicine* 6(4):1262–1272.

Hatzistergos K.E., Quevedo H., Oskouei B.N., Hu Q., Feigenbaum G.S., Margitich I.S., Mazhari R., Boyle A.J., Zambrano J.P., Rodriguez J.E., Dulce R., Pattany P.M., Valdes D., Revilla C., Heldman A.W., McNiece I., Hare J.M., 2010, Bone marrow mesenchymal stem cells stimulate cardiac stem cell proliferation and differentiation, *Circulation Research* 107(7):913–922.

Hematti P., 2012, Mesenchymal stromal cells and fibroblasts: a case of mistaken identity?, *Cytotherapy* 14(5):516-21.

Kementerian Kesehatan Republik Indonesia, 2010, *Hepatitis Masalah Kesehatan Dunia*. Kementerian Kesehatan Republik Indonesia, Jakarta.

Kia R., Sison R.L., Heslop J., Kitteringham N.R., Hanley N., Mills J.S., Park B.K., Goldring C.E., 2013, Stem cell-derived hepatocytes as a predictive model for drug-induced liver injury: are we there yet? *Br J Clin Pharmacol*. 75:885–896.

Kim H.O., Choi S., 2013, Mesenchymal stem cell-derived secretome and microvesicles as a cell-free therapeutics for neurodegenerative disorders, *Tissue Engineering and Regenerative Medicine* 10(3):93–101.

Kita K., Gauglitz G.G., Phan T.T., Herndon D.N., Jeschke M.G., 2010, Isolation and characterization of mesenchymal stem cells from the sub-amniotic human umbilical cord lining membrane, *Stem Cells Dev*. 19(4):491-502.

Kupcova S.H., 2013, Proteomic techniques for characterisation of mesenchymal stem cell secretome, *Biochimie*. 95:2196–2211.

Lee S.H., Jin S.Y., Song J.S., Seo K.K., Cho K.H., 2012, Paracrine effects of adiposederived stem cells on keratinocytes and dermal fibroblasts, *Ann Dermatol* 24:136–43.

Ma S., Xie N., Li W., Yuan B., Shi Y., Wang Y., 2014, Immunobiology of mesenchymal stem cells, *Cell Death and Differentiation* 21:216–225.

Mescher, A.L., 2011, *Histology DasarJUNQUEIRA Teks dan Atlas*, Edisi 12, EGC, Jakarta.

Moharib M.N., Hammam O.A., Salman F.H., El-naggar M.E., Sherifl S.A., 2014, Transplantation of modified and fresh hepatocyte reduces hepatotoxicity induced by carbon tetrachloride, *Life Science Journal* 11(8).

- Moslem M., Valojerdi M.R., Pournasr B., Muhammadnejad A., Baharvand H., 2013, Therapeutic potential of human-induced pluripotent stem cell-derived mesenchymal stem cells in mice with lethal fulminant hepatic failure, *Cell Transplant.*
- Punzalan C.S., Bukong T.N., Szabo G., 2015, Alcoholic hepatitis and HCV interactions in the modulation of liver disease, *J Viral Hepat.* 22(10): 769–776.
- Putra A., Antari A.D., Kustiyah A.R., Intan Y.S.N., Sadyah N.A.C., Wirawan N., Astarina S., Zubir N., Munir D., 2018, Mesenchymal stem cells accelerate liver regeneration in acute liver failure animal model, *Biomedical Research and Therapy*, 5(11):2802-2810
- Putra A., Ridwan F.B., Putridewi A.I., Kustiyah A.R., Wirastuti K., Sadyah N.A.C., Rosdiana I., Munir D., 2018, The role of TNF- α induced MSCs on suppressive inflammation by increasing TGF- β and IL-10, *Open Access Maced J Med Sci.* 6(10): 1779–1783.
- Raynaud C.M., Maleki M., Lis R., Ahmed B., Al-Azwani I., Malek J., Safadi F.F., Rafii A., 2012, Comprehensive characterization of mesenchymal stem cells from human placenta and fetal membrane and their response to osteoactivin stimulation, *Stem Cells Int.* 2012():658356.
- Rehm J., Samokhvalov A.V., Shield K.D., 2013, Global burden of alcoholic liver diseases, *J. Hepatolo* 59:160-8.
- Rountree C.B., Mishra L., Willenbring H., 2012, Stem cells in liver diseases and cancer: recent advances on the path to new therapies, *Hepatology* 55, 298–306 (2012).
- Sacher R.A., McPherso R.A., 2012, *Tinjauan Klinis Hasil Pemeriksaan. Laboratorium Edisi 11*, Penerbit EGC, Jakarta.
- Schlosser S., Dennler C., Schweizer R., Eberli D., Stein J.V., Enzmann V., 2012, Paracrine effects of mesenchymal stem cells enhance vascular regeneration in ischemic murine skin, *Microvasc Res.* 83:267–75.
- Seifrtová M., Havelek R., Cmielová J., Jiroutová A., Soukup T., Brůčková L., Mokry J., English D., Rezáčová M., 2012, The response of human ectomesenchymal dental pulp stem cells to cisplatin treatment, *Int Endod J.* 45(5):401-12.
- Setiati S., Alwi I., Sudoyo A.W., Stiyohadi B., Syam A.F., 2014, *Buku Ajar Ilmu Penyakit Dalam Jilid II (ed) VI*, InternaPublishing, Jakarta.

- Si-Tayeb K., Noto F.K., Nagaoka M., Li J., Battle M.A., Duris C., North P.E., Dalton S., Duncan S.A., 2010, Highly efficient generation of human hepatocyte-like cells from induced pluripotent stem cells, *Hepatology*. 51:297–305.
- Sohni A., Verfaillie C.M., 2013, Mesenchymal stem cells migration homing and tracking, *Stem Cells Int.* 2013:130763
- Stadler W.M. 2013, *Cancer Biology Review: A Case-Based Approach*, Demos Medical Publishing, New York
- Tamura R., Uemoto S., Tabata Y., 2016, Immunosuppressive effect of mesenchymal stem cell-derived exosomes on a concanavalin A-induced liver injury model, *Inflammation and Regeneration* 36(1):26.
- Tan C.Y., Lai R.C., Wong W., Dan Y.Y., Lim S.-K., Ho H.K., 2014,, Mesenchymal stem cell-derived exosomes promote hepatic regeneration in drug-induced liver injury models, *Stem Cell Research & Therapy*, 5(3):76
- Tao L., Kendall K., 2013, *Sinopsis Organ System : Gastrointestinal*, PT Binarupa Aksara, Tangerang Selatan.
- Ullah I., Subbarao R.B., Rho G.J., 2015, Human mesenchymal stem cells - current trends and future prospective, *Biosci. Rep.* 35:1-18.
- Wahlang B., Beier J.I., Clair H.B., Bellis-Jones H.J., Cameron Falkner K., McClain C.J., Cave M.C., 2013, Toxicant-associated Steatohepatitis, *Toxicol Pathol.* 41(2): 343–360.
- Wang J., Bian C., Liao L., Zhu Y., Li J., Zeng L., Zhao R.C., 2009, Inhibition of hepatic stellate cells proliferation by mesenchymal stem cells and the possible mechanisms, *Hepatol Res.* 39:1219–1228.
- Wang M., Zhang X., Xiong X., Yang Z., Li P., Wang J., Sun Y., Yang Z., Hoffman R.M., 2016, Bone marrow mesenchymal stem cells reverse liver damage in a carbon tetrachloride-induced mouse model of chronic liver injury, *in vivo* 30: 187-194 (2016).
- Wei X., Yang X., Han Z.P., Qu F.F., Shao L., Shi Y.F., 2013, Mesenchymal stem cells: a new trend for cell therapy, *Acta Pharmacol Sin.* 34(6):747-54.
- Williams A.R., Hare J.M., 2011, Mesenchymal stem cells: Biology, pathophysiology, translational findings, and therapeutic implications for cardiac disease, *Circ Res* 109(8): 923–940.

- Yagi H., Parekkadan B., Suganuma K., Soto-Gutierrez A., Tompkins R.G., 2009, Long-term superior performance of a stem cell/hepatocyte device for the treatment of acute liver failure, *Tissue Eng Part A* 15: 3377–3388.
- Yan Y., Xu W., Qian H., Si Y., Zhu W., Cao H., Zhou H., Mao F., 2009, Mesenchymal stem cells from human umbilical cords ameliorate mouse hepatic injury in vivo, *Liver International*, 29(3):356–365.
- Yoon S.W., Kim D.K., Kim K.P., Park K.S., 2014, Rad51 regulates cell cycle progression by preserving G2/M transition in mouse embryonic stem cells, *Stem Cells Dev.* 2014 Nov 15; 23(22):2700-11.
- Yoshioka H., Usuda H., Miura N., Fukuishi N., Nonogaki T., Onosaka S., 2017, Vitamin D3-induced hypercalcemia increases carbon tetrachloride-induced hepatotoxicity through elevated oxidative stress in mice, *PLoS One*.
- Zeng W., Xiao J., Zheng G., Xing F., Tipoe G.L., Wang X., He C., Chen Z., Liu Y., 2015, Antioxidant treatment enhances human mesenchymal stem cell anti-stress ability and therapeutic efficacy in an acute liver failure model, *Scientific Reports* 5:11100
- Zhang S., Chen L., Liu T., Zhang B., Xiang D., Wang Z., Wang Y., 2012, Human umbilical cord matrix stem cells efficiently rescue acute liver failure through paracrine effects rather than hepatic differentiation, *Tissue Engineering Part A* 18:(13-14):1352–1364.
- Zhang Y., Li Y., Li W., Cai J., Yue M., Jiang L., Xu R., Zhang L., Li J., Zhu C., 2018, Therapeutic effect of human umbilical cord mesenchymal stem cells at various passages on acute liver failure in rats, *Hindawi Stem Cells International*
- Zhang Z., Wang F.S., 2013, Stem cell therapies for liver failure and cirrhosis. *J Hepatol* 59, 183–185 (2013).
- Zhou R., Li Z., He C., Li R., Xia H., Li C., Xiao J., Chen Z., 2014, Human umbilical cord mesenchymal stem cells and derived hepatocyte-like cells exhibit similar therapeutic effects on an acute liver failure mouse model, *PLoS One* 9(8):e104392