

DAFTAR PUSTAKA

1. National Center for Biotechnology Information. aluminium Chloride [Internet]. 2004 [dikutip 20 Januari 2023]. Tersedia pada: <https://pubchem.ncbi.nlm.nih.gov/compound/24012>
2. Tietz T, Lenzner A, Kolbaum AE, Zellmer S, Riebeling C, Gürtler R, dkk. Aggregated aluminium exposure: risk assessment for the general population. *Arch Toxicol*. 28 Desember 2019;93(12):3503–21.
3. Klotz K, Weistenhöfer W, Neff F, Hartwig A, Van Thriel C, Drexler H. The health effects of aluminum exposure. *Dtsch Arztebl Int*. 29 September 2017;114(39):653–9.
4. Joint FAO/WHO Expert Committee on Food Additives. Meeting (74th : 2011 : Rome I, World Health Organization. Evaluation of certain food additives and contaminants : seventy-fourth report of the Joint FAO/WHO Expert Committee on Food Additives. World Health Organization; 2011. 136 hlm.
5. Ma J, Jiang G, Zheng W, Zhang M. A longitudinal assessment of aluminum contents in foodstuffs and aluminum intake of residents in Tianjin metropolis. *Food Sci Nutr*. Maret 2019;7(3):997–1003.
6. American Association of Poison Control Centers. Aluminium poisoning [Internet]. 2021 [dikutip 29 Juni 2023]. Tersedia pada: <https://www.aapcc.org/>
7. Schifman RB, Luevano DR. Aluminum Toxicity: Evaluation of 16-Year Trend Among 14 919 Patients and 45 480 Results. *Arch Pathol Lab Med*. Juni 2018;142(6):742–6.
8. Mailloux RJ, Lemire J, Appanna VD. Hepatic response to aluminum toxicity: dyslipidemia and liver diseases. *Exp Cell Res*. 1 Oktober 2011;317(16):2231–8.
9. Richard S.Snell. Anatomi Klinis Berdasarkan Sistem. alih bahasa LS; editor edisi BI ,Ardy S, YAL, editor. Jakarta: Penerbit Buku Kedokteran EGC; 2012. 492–495 hlm.

10. Eroschenko VP. Atlas histologi Di Fiore dengan korelasi fungsional . 11 ed. alih bahasa BU, editor edisi bahasa indonesia DDNY, editor. Jakarta: Penerbit Buku Kedokteran EGC; 2010. 152–153 hlm.
11. Sirica AE, Nathanson MH, Gores GJ, Larusso NF. Pathobiology of biliary epithelia and cholangiocarcinoma: proceedings of the Henry M. and Lillian Stratton Basic Research Single-Topic Conference. Hepatology. Desember 2008;48(6):2040–6.
12. Fisher K, Vuppalanchi R, Saxena R. Drug-Induced Liver Injury. Arch Pathol Lab Med. Juli 2015;139(7):876–87.
13. Teschke R. Aluminum, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Mercury, Molybdenum, Nickel, Platinum, Thallium, Titanium, Vanadium, and Zinc: Molecular Aspects in Experimental Liver Injury. Int J Mol Sci. 13 Oktober 2022;23(20).
14. Nelson L.S. & HM& LNA, & SSW, & GLR, & HRS (Eds.). Goldfrank's Toxicologic Emergencies. 11 ed. Karen G. Edmonson, Robert Pancotti, editor. new york: Kepler Std by Cenveo; 2019.
15. Xu F, Liu Y, Zhao H, Yu K, Song M, Zhu Y, dkk. Aluminum chloride caused liver dysfunction and mitochondrial energy metabolism disorder in rat. J Inorg Biochem. September 2017;174:55–62.
16. Wei X, Li D, Luo Y, Wu B. Role of autophagy and apoptosis in aluminum exposure-induced liver injury in rats. 2022; Tersedia pada: <https://doi.org/10.21203/rs.3.rs-2125719/v1>
17. Hall AR, Le H, Arnold C, Brunton J, Bertolo R, Miller GG, dkk. Aluminum Exposure from Parenteral Nutrition: Early Bile Canaliculus Changes of the Hepatocyte. Nutrients. 4 Juni 2018;10(6).
18. Ebrahimi A, Ahmadi H, Pourfraidan Ghasrodashti Z, Tanide N, Shahriarirad R, Erfani A, dkk. Therapeutic effects of stem cells in different body systems, a novel method that is yet to gain trust: A comprehensive review. Bosn J Basic Med Sci. 1 Desember 2021;21(6):672–701.
19. Abbaspanah B, Momeni M, Ebrahimi M, Mousavi SH. Advances in perinatal stem cells research: a precious cell source for clinical applications. Regenerative Med. 1 Juli 2018;13(5):595–610.

20. Lo Furno D, Mannino G, Giuffrida R. Functional role of mesenchymal stem cells in the treatment of chronic neurodegenerative diseases. *J Cell Physiol.* 20 Mei 2018;233(5):3982–99.
21. Marino L, Castaldi MA, Rosamilio R, Ragni E, Vitolo R, Fulgione C, dkk. Mesenchymal Stem Cells from the Wharton's Jelly of the Human Umbilical Cord: Biological Properties and Therapeutic Potential. *Int J Stem Cells.* 30 Juli 2019;12(2):218–26.
22. Subramanian A, Fong CY, Biswas A, Bongso A. Comparative Characterization of Cells from the Various Compartments of the Human Umbilical Cord Shows that the Wharton's Jelly Compartment Provides the Best Source of Clinically Utilizable Mesenchymal Stem Cells. *PLoS One.* 10 Juni 2015;10(6):e0127992.
23. Trounson A, McDonald C. Stem Cell Therapies in Clinical Trials: Progress and Challenges. *Cell Stem Cell.* 2 Juli 2015;17(1):11–22.
24. Li S, Bi Y, Duan Z, Chang Y, Hong F, Chen Y. Stem cell transplantation for treating liver diseases: progress and remaining challenges. *Am J Transl Res.* 2021;13(5):3954–66.
25. Zhou GP, Jiang YZ, Sun LY, Zhu ZJ. Therapeutic effect and safety of stem cell therapy for chronic liver disease: a systematic review and meta-analysis of randomized controlled trials. *Stem Cell Res Ther.* 25 September 2020;11(1):419.
26. Moore KL DAAA. *Clinically oriented anatomy.* 8 ed. Lippincott Williams, Wilkins, editor. Philadelphia; 2017.
27. Mahadevan V. *Anatomy of the liver.* Vol. 38, Surgery (United Kingdom). Elsevier Ltd; 2020. hlm. 427–31.
28. F.Paulsen, J. Wascke. *Sobotta atlas anatomi manusia.* 24 ed. Vol. 2. Jakarta: Penerbit buku kedokteran; 2019.
29. Nayak P. Aluminum: impacts and disease. *Environ Res.* Juni 2002;89(2):101–15.
30. Mescher AL. *Histologi dasar junqueira teks dan atlas .* 12 ed. editor edisi bahasa indonesia HH, editor. Jakarta: Penerbit Buku Kedokteran EGC; 2012. 147–150 hlm.

31. Zhang N, Yang Y, Wang Z, Shi Z, Gao B, Hu X, dkk. Study on the thermal decomposition of aluminium chloride hexahydrate. *Canadian Metallurgical Quarterly*. 3 April 2018;57(2):235–44.
32. Agency for Toxic Substances and Disease Registry. Toxicological Profile for Aluminium. [Internet]. 2008. Tersedia pada: <http://www.atsdr.cdc.gov/toxfaqs/index.asp>.
33. Al-Thani H, Koç M, Isaifan RJ. A review on the direct effect of particulate atmospheric pollution on materials and its mitigation for sustainable cities and societies. *Environmental Science and Pollution Research*. 20 Oktober 2018;25(28):27839–57.
34. Mold M, Linhart C, Gómez-Ramírez J, Villegas-Lanau A, Exley C. Aluminum and Amyloid- β in Familial Alzheimer's Disease. *Journal of Alzheimer's Disease*. 18 Februari 2020;73(4):1627–35.
35. Zhou J, Li Z, Zhou T, Xin Z, Wu L, Luo Y, dkk. Aluminum toxicity decreases the phytoextraction capability by cadmium/zinc hyperaccumulator *Sedum plumbizincicola* in acid soils. *Science of The Total Environment*. April 2020;711:134591.
36. Agency for Toxic Substances and Disease Registry. Toxicological Profile for Aluminum [Internet]. 2008 [dikutip 29 Juni 2023]. Tersedia pada: <https://wwwn.cdc.gov/TSP/ToxProfiles/ToxProfiles.aspx?id=191&tid=34>
37. Corkins MR, Abrams SA, Fuchs GJ, Goday PS, Hannon TS, Kim JH, dkk. Aluminum Effects in Infants and Children. *Pediatrics*. 1 Desember 2019;144(6).
38. Ertl K, Goessler W. Aluminium in foodstuff and the influence of aluminium foil used for food preparation or short time storage. *Food Additives & Contaminants: Part B*. 3 April 2018;11(2):153–9.
39. Tietz T, Lenzner A, Kolbaum AE, Zellmer S, Riebeling C, Gürtler R, dkk. Aggregated aluminium exposure: risk assessment for the general population. *Arch Toxicol*. 28 Desember 2019;93(12):3503–21.
40. Yokel RA. Aluminium toxicokinetics: An updated minireview. Vol. 88, *Pharmacology and Toxicology*. Blackwell Munksgaard; 2001. hlm. 159–67.
41. Greger JL, Sutherland JE. Aluminum exposure and metabolism. *Crit Rev Clin Lab Sci*. 1997;34(5):439–74.

42. GITELMAN H. Serum and urinary aluminium levels of workers in the aluminium industry*1. *Ann Occup Hyg.* April 1995;39(2):181–91.
43. Sanajou S, Şahin G, Baydar T. Aluminium in cosmetics and personal care products. *Journal of Applied Toxicology.* 15 November 2021;41(11):1704–18.
44. Atsdr. PUBLIC HEALTH STATEMENT Aluminum CAS # 7429-90-5 Division of Toxicology and Environmental Medicine [Internet]. 2008. Tersedia pada: www.atsdr.cdc.gov/
45. Rodwell VW, Murray RK. *Biochemistry & Medicine.* Dalam: Rodwell VW, Bender DA, Botham KM, Kennelly PJ, Weil PA, editor. *Harper's Illustrated Biochemistry, 31e* [Internet]. New York, NY: McGraw-Hill Education; 2018. Tersedia pada: accessmedicine.mhmedical.com/content.aspx?aid=1160188355
46. World Health Organization. Aluminium in Drinking-water Background document for development of WHO Guidelines for Drinking-water Quality. 2010.
47. Geyikoglu F, Türkez H, Bakir TO, Cicek M. The genotoxic, hepatotoxic, nephrotoxic, haematotoxic and histopathological effects in rats after aluminium chronic intoxication. *Toxicol Ind Health.* Oktober 2013;29(9):780–91.
48. Yang Y, Wang H, Guo Y, Lei W, Wang J, Hu X, dkk. Metal Ion Imbalance-Related Oxidative Stress Is Involved in the Mechanisms of Liver Injury in a Rat Model of Chronic Aluminum Exposure. *Biol Trace Elem Res.* 26 September 2016;173(1):126–31.
49. Baynes RE, Hodgson E. Absorption and Distribution of Toxicants. Dalam: *A Textbook of Modern Toxicology* [Internet]. 2004. hlm. 75–110. Tersedia pada: <https://doi.org/10.1002/0471646776.ch6>
50. Ruipérez F, Mujika JI, Ugalde JM, Exley C, Lopez X. Pro-oxidant activity of aluminum: Promoting the Fenton reaction by reducing Fe(III) to Fe(II). *J Inorg Biochem.* Desember 2012;117:118–23.
51. El-Sayed WM, Al-Kahtani MA, Abdel-Moneim AM. Prophylactic and therapeutic effects of taurine against aluminum-induced acute hepatotoxicity in mice. *J Hazard Mater.* Agustus 2011;192(2):880–6.

52. Putney Jr.* JW, Pedrosa Ribeiro CM. Signaling pathways between the plasma membrane and endoplasmic reticulum calcium stores. *Cellular and Molecular Life Sciences*. Agustus 2000;57(8):1272–86.
53. Ahmed WMS, Ibrahim MA, Helmy NA, ElKashlan AM, Elmaidomy AH, Zaki AR. Amelioration of aluminum-induced hepatic and nephrotoxicity by *Premna odorata* extract is mediated by lowering MMP9 and TGF- β gene alterations in Wistar rat. *Environ Sci Pollut Res Int*. Oktober 2022;29(48):72827–38.
54. Okail HA, Ibrahim AS, Badr AH. The protective effect of propolis against aluminum chloride-induced hepatorenal toxicity in albino rats. *The Journal of Basic and Applied Zoology*. 16 Desember 2020;81(1):34.
55. BECKER AJ, McCULLOCH EA, TILL JE. Cytological demonstration of the clonal nature of spleen colonies derived from transplanted mouse marrow cells. *Nature*. 2 Februari 1963;197:452–4.
56. Abbaspanah B, Momeni M, Ebrahimi M, Mousavi SH. Advances in perinatal stem cells research: A precious cell source for clinical applications. Vol. 13, *Regenerative Medicine*. Future Medicine Ltd.; 2018. hlm. 595–610.
57. Lyons FG, Mattei TA. Sources, Identification, and Clinical Implications of Heterogeneity in Human Umbilical Cord Stem Cells. Dalam 2019. hlm. 243–56.
58. Subramanian A, Fong CY, Biswas A, Bongso A. Comparative Characterization of Cells from the Various Compartments of the Human Umbilical Cord Shows that the Wharton's Jelly Compartment Provides the Best Source of Clinically Utilizable Mesenchymal Stem Cells. *PLoS One*. 10 Juni 2015;10(6):e0127992.
59. Kovalovich K, Li W, DeAngelis R, Greenbaum LE, Ciliberto G, Taub R. Interleukin-6 Protects against Fas-mediated Death by Establishing a Critical Level of Anti-apoptotic Hepatic Proteins FLIP, Bcl-2, and Bcl-xL. *Journal of Biological Chemistry*. Juli 2001;276(28):26605–13.
60. Sahu A, Jeon J, Lee MS, Yang HS, Tae G. Nanozyme Impregnated Mesenchymal Stem Cells for Hepatic Ischemia-Reperfusion Injury Alleviation. *ACS Appl Mater Interfaces*. 9 Juni 2021;13(22):25649–62.

61. Yang X, Liang L, Zong C, Lai F, Zhu P, Liu Y, dkk. Kupffer cells-dependent inflammation in the injured liver increases recruitment of mesenchymal stem cells in aging mice. *Oncotarget*. 12 Januari 2016;7(2):1084–95.
62. Wang J, Liu Y, Ding H, Shi X, Ren H. Mesenchymal stem cell-secreted prostaglandin E2 ameliorates acute liver failure via attenuation of cell death and regulation of macrophage polarization. *Stem Cell Res Ther*. 7 Januari 2021;12(1):15.
63. Saidi R, Rajeshkumar R, Shariftabrizi A, Zimmerman A, Walter O. Human Adipose-Derived Mesenchymal Stem Cells Promote Liver Regeneration. *Journal of Investigative Surgery*. 2 November 2015;28(6):303–8.
64. Tsai PC, Fu TW, Chen YMA, Ko TL, Chen TH, Shih YH, dkk. The therapeutic potential of human umbilical mesenchymal stem cells from Wharton's jelly in the treatment of rat liver fibrosis. *Liver Transplantation*. Mei 2009;15(5):484–95.
65. Donders R, Bogie JFJ, Ravanidis S, Gervois P, Vanheusden M, Marée R, dkk. Human Wharton's Jelly-Derived Stem Cells Display a Distinct Immunomodulatory and Proregenerative Transcriptional Signature Compared to Bone Marrow-Derived Stem Cells. *Stem Cells Dev*. 15 Januari 2018;27(2):65–84.
66. Ali H, Tofrizal T, Tjong DH, Yanis A, Yarni SD. The RYR3 gene is involved in Wharton's jelly derived mesenchymal stem cell treatment of Alzheimer's disease in rats. *Arch Med Sci*. 2023;19(3):820–4.
67. Fajariyah S, Utami ET, Arisandi Y. Efek Pemberian Estrogen Sintetis (Diethylstilbestrol) terhadap Struktur Hepar dan Kadar SGOT dan SGPT pada Mencit (*Mus musculus*) Betina Strain Balb'C The Effect of Synthetic Estrogen on Hepar Structure And Level of SGOT and SGPT of Balb'C Female Mice (*UMus musculus*).
68. Zakaria S, Hasan RA, Mahmoud MF, El Fayoumi HM, Mahmoud AAA. The concurrent exposure to aluminium and fructose induces liver injury in rats: Protection by monoammonium glycyrrhizinate. *Clin Exp Pharmacol Physiol*. 30 Mei 2020;47(5):809–20.

69. Akinrinade ID, Memudu AE, Ogundele OM, Ajetunmobi OI. Interplay of glia activation and oxidative stress formation in fluoride and aluminium exposure. *Pathophysiology*. 1 Maret 2015;22(1):39–48.
70. Galluzzi L, Vitale I, Aaronson SA, Abrams JM, Adam D, Agostinis P, dkk. Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. *Cell Death Differ* [Internet]. 2018;25(3):486–541. Tersedia pada: <https://doi.org/10.1038/s41418-017-0012-4>
71. Ding Y, Tang J, You X, Zhang X, Wang G, Yao C, dkk. Study on the mechanism underlying Al-induced hepatotoxicity based on the identification of the Al-binding proteins in liver. *Metallomics*. 1 Agustus 2019;11(8):1353–62.
72. Rahimzadeh MR, Rahimzadeh MR, Kazemi S, Amiri RJ, Pirzadeh M, Moghadamnia AA. Aluminum Poisoning with Emphasis on Its Mechanism and Treatment of Intoxication. *Emerg Med Int*. 11 Januari 2022;2022:1–13.
73. Hasegawa T, Mizugaki A, Inoue Y, Kato H, Murakami H. Cystine reduces tight junction permeability and intestinal inflammation induced by oxidative stress in Caco-2 cells. *Amino Acids*. 15 Juli 2021;53(7):1021–32.
74. Stamatovic SM, Johnson AM, Sladojevic N, Keep RF, Andjelkovic A V. Endocytosis of tight junction proteins and the regulation of degradation and recycling. *Ann N Y Acad Sci*. 17 Juni 2017;1397(1):54–65.
75. Othman MS, Fareid MA, Abdel Hameed RS, Abdel Moneim AE. The Protective Effects of Melatonin on Aluminum-Induced Hepatotoxicity and Nephrotoxicity in Rats. *Oxid Med Cell Longev*. 2020;2020:7375136.
76. Ahmed WMS, Ibrahim MA, Helmy NA, ElKashlan AM, Elmaidomy AH, Zaki AR. Amelioration of aluminum-induced hepatic and nephrotoxicity by *Premna odorata* extract is mediated by lowering MMP9 and TGF- β gene alterations in Wistar rat. *Environmental Science and Pollution Research*. 26 Oktober 2022;29(48):72827–38.
77. Umbaugh DS, Soder RP, Nguyen NT, Adelusi O, Robarts DR, Woolbright B, dkk. Human Wharton's Jelly-derived mesenchymal stem cells prevent acetaminophen-induced liver injury in a mouse model unlike human dermal fibroblasts. *Arch Toxicol*. Desember 2022;96(12):3315–29.

78. Paladino FV, Sardinha LR, Piccinato CA, Goldberg AC. Intrinsic Variability Present in Wharton's Jelly Mesenchymal Stem Cells and T Cell Responses May Impact Cell Therapy. *Stem Cells Int.* 2017;2017:8492797.
79. Panta W, Imsoonthornruksa S, Yoisungnern T, Suksaweang S, Ketudat-Cairns M, Parnpai R. Enhanced Hepatogenic Differentiation of Human Wharton's Jelly-Derived Mesenchymal Stem Cells by Using Three-Step Protocol. *Int J Mol Sci.* 20 Juni 2019;20(12).

