

## DAFTAR PUSTAKA

- Abdealalim E M, Takada T, Torii R, Tooyama I. (2006). Molecula cloning of BNP from heart and its immunohistochemical localization in the hypothalamus of monkey. *Peptide*, 27, pp.1886-93.
- Abdul-Rahim AH, Quinn TJ, Alder S, Clark AB, Musgrave SD, Langhorne P, et al. (2016). Derivation and validation of a novel prognostic scale (modified-stroke subtype, Oxfordshire community stroke project classification, age and prestroke modified rankin) to predict early mortality in acute stroke. *Stroke*; 47(1), pp. 74-79.
- Altunayoglu Vildan, Gunduz A, Karaca Yunus, Alioglu Zekeriya, Mentese Ahmet, Murat Topbas. (2014). Diagnostic significance of ischemia-modified albumin, s100b, and neuron- specific enolase in acute ischemic stroke. *JAEM*, 13,pp. 112-7.
- Anderson D, Larson D, Ferguson A, Klaas J, Kushner F, Peterson B, et al. (2012). Diagnosis and initial treatment of ischemic stroke. *Institute for Clinical Systems Improvement*,pp.10-13.
- Ariesen M J, Claus S P, Rinkel G J, Algra A. (2003). Risk factors for intracerebral hemorrhage in the general population: a systematic review. *Stroke*, 34,pp. 2060-5.
- Arundine M, Tymianski M. (2003). Molecular mechanism of calcium-dependent neurodegeneration in excitotoxicity. *Cel Calcium*; 34(4-5),pp. 325-337.
- Atri A, Milligan T A, Maas M B, Safdiesh J E. (2009). Ischemic stroke: pathophysiology and principles of localization. *Neurology Board Review Manual*, 13(1),pp. 1-15.
- Bandera E., Botteri M., Minelli C., Sutton A., Abrams K. R., Latronico N. (2006). Cerebral blood flow threshold of ischemic penumbra and infarct core in acute ischemic stroke: a systematic review. *Stroke* 37 1334–1339.
- Bang O Y, Saver J L, Kim S J, Kim GM, Chung C S, Ovbiagele B, et al. (2011). Collateral flow predicts response to endovascular therapy for acute ischemic stroke. *Stroke*; 42(3),pp. 693-9.
- Bano D, Nicotera P. (2007). Ca<sup>2+</sup> signals and neuronal death in brain ischemia. *Stroke*, 38,pp.674-6.

- Baron JC. (2007). Mapping the ischemic penumbra with PET: Implications for acute stroke treatment. *Cerebrovasc dis*, 9(4),pp.1993-2001.
- Benjamin E J, Blaha M J, Chiuve S E, Cushman M, Das S R, Deo R, et al. (2017). Heart disease and stroke statistic-2017 update: a report from american heart association. *Circulation*, 135(10), pp.e146-603.
- Benveniste H. (2009). Glutamate, microdialysis and cerebral ischemia: lost in translation. *Anesthesiology*, 110(2),pp. 422-5.
- Berendes E, Walter M, Cullen P, Prien T, Van Aken H, Horsthemke J, et al. (1997). Secretion of brain natriuretic peptide in patients with aneurysmal subarachnoid haemorrhage. *Lancet*; 349,pp. 245-9.
- Boerrigter G, Burnett J C. (2004). Recent advances in natriuretic peptides in congestive heart failure. *Expert Opin Invest Drugs*, 13,pp. 643-52.
- Bonita R, Beaglehole R. (1988). Modification of rancin scale: Recovery of motor function after stroke. *Stroke*, 19 (12),pp. 1497-1500.
- Brott T, Adams H P, Olinger C/P, Marler J R, Barsan W G, Biller J, et al. (1989). *National Institutes of Health Stroke Survey*. Medical University of South Carolina.
- Burford N G, Webster N A, Cruz-Topete D. (2017). Hypothamic-pituitary-adrenal axis modulation of glucocorticoids in te cardiovascular system. *Int J Mol Sci*; 18(10).
- Cakir Z, Saritas A, Emet M, Aslan S, Akoz A, Gundogdu F, et al (2010). A prospective study of brain natriuretic peptide levels in three subgroups: stroke with hypertension, stroke without hypertension, and hypertension alone. *Ann Indian Acad Neurol*;13:47–51.
- Castilho R F, Hansson O, Ward M W, Budd SL, Nicholis DG. (1998). Mitochondrial control of acute glutamate excitotoxicity in cultured cerebellar granule cells,*J Neurosci*,18,pp. 10277-86.
- Chan P H. (2001). Reactive oxygen radicals in signaling and damage in the ischemic brain. *J Cereb Blood Flow Metab*, 21(1),pp. 2-14.
- Chen H P, Gao S, Wang J Y, Xu A D, Li Y S, Wang D. (2012). Classifying ischemic stroke from TOAST to CISS. *CNS Neuroscience and Therapeutics*; 18: 452-456.

- Chen X, Zhan X, Chen M, Lei H, Wang Y, Jiang X. (2012). The prognostic value of combined NT-proBNP levels and NIHSS scores in patients with acute ischemic stroke. *Intern Med*, 51(20),pp. 2887-92.
- Chong J, Sacco R. (2005). Risk factors for stroke, assessing risk, and the mass and high-risk approaches for stroke prevention. In: Gorelick PB, ed. *Continuum: Stroke Prevention*. Hagerstown, Maryland: Lippincott Williams and Wilkins,pp.18-24.
- Chopra S, Cherian D, Verghese P P, Jacob J J. (2003). Physiology and clinical significance of natriuretic hormones. *Indian Journal of Endocrinology and Metabolism*, 17(1),pp. 83-89.
- Christophe M, Nicolas S. (2006). Mitochondria: a target for neuroprotective interventions in cerebral ischemia-reperfusion. *Curr Pharm Des*, 12(6),pp. 739-757.
- Curry FR, ( 2005) Atrial natriuretic peptide: an essential physiological regulator of transvascular fluid, protein transport, and plasma volume. *J Clin Invest*;115:1458–1461.
- Daniels L B, Allison M A, Clopton P, Redwine L, Siecke N, Taylor K, et al (2007). Use of natriuretic peptides in preparticipation screening of college athletes. *Int J Cardiol*, 27.
- Data Rekam Medik RSUP DR. M. Djamil Padang
- Degterev A, Huang Z, Boyce M, Li Y, Mizushima N, et al. (2005). Chemical inhibitor of nonapoptotic cell death with therapeutic potential for ischemic brain injury. *Nat Chem Biol* ; 1(2):112-9.
- Denes A, Thornton P, Rothwell N J, Allan S M. (2005). Inflammation and brain injury. *Nat Chem Biol*. 1(2),pp.12-19.
- Deoke A, Deoke S, Saoji A, Hajare S. (2012). Profile of modifiable and non-modifiable risk factors in stroke a rural based tertiary care hospital: a case control study. *Global Journal of Health Science*, 4(3),pp158-163.
- Dhamoon MS, Moon YP, Paik MC, Boden A, Rundek T, Sacco RL, et al.(2009). Long-term functional recover after first ischemic stroke: the Northern Manhattan Study. *Stroke*, 40(8),pp.2805-11.
- Ekshyyan O, Aw TY. (2004). Apoptosis in neurodegenerative disorders, *Curr. Neuvasc. Res*, 1,pp.355-71.

- Espiner E A, Richards A M, Yandle T G, Nicholls MG. (1995). Natriuretic hormones. *Endocrinol Metab Clin Noth Am*, 24, pp.481-509.
- Etgen T, Baum H, Sander K, Sander D. (2005). Cardiac troponins and N-terminal pro-brain natriuretic peptide in acute ischemic stroke do not relate to clinical prognosis. *Stroke*, 36, pp.270-5.
- Fernandez-Sussavila, Rodriguez YM, Dopico LA, Arias S, Santamaria M, Avila GP, et al. (2017). Heads and tails of natriuretic peptides: neuroprotective role of brain natriuretic peptide. *Journal of the American Heart Association*, 6, pp.e7329.
- Ferrer I, Friguls B, Dalfo E, Justicia C, Planas AM. (2003). Caspase-dependent and caspase-independent signaling of apoptosis in the penumbra following middle cerebral artery occlusion in the adult rat. *Neuropathol Appl Neurobiol*, 29(5), pp.472-481.
- Fishman RA. (1992). Cerebrospinal fluid. In: *Diseases In The Nervous System*, 2nd Ed., W.B. Saunders Co., Philadelphia, PA, pp.103–55.
- Folsom A R, Nambi V, Bell E J, Oluleye OW, Gottesman RF, Lutsey PL, et al. (2013). Troponin T, NT-proBNP and incidence of stroke: the atherosclerosis risk in communities (ARIC) study. *Stroke*, 44(4), pp.961-7.
- Ford GA. (2008). Clinical pharmacological issues in the development of acute stroke therapies, *Br. J. Pharmacol*, 153, pp.S112–9.
- Futrell N. (1998). Pathophysiology of acute ischemic stroke: New concepts in cerebral embolism. *Cerebrovasc Dis*, 8 (suppl 1), pp.2-5.
- Galvin KA, Oorschot DE. (2003). Continuous low dose treatment with neurotrophin-3 protects striatal medium spiny neurons from mild neonatal hypoxia/ischaemia, *Neuroscience*, 118, pp.1023–32.
- Giannakoulas G, Hatzitolios A, Karvounis H, Koliakos G, Charitandi A, Dimitroulas H, et al (2005). N-Terminal Pro-Brain Natriuretic Peptide Levels Are Elevated in Patients with Acute Ischemic Stroke. *Journal of angiology*. Volume: 56, no. 6:723-730.
- Giffard RG, Yenari MA. (2004). Many mechanisms for HSP70 protection from cerebral ischaemia, *J. Neurosurg. Anesthesiol*, 16, pp.53-61.
- Ginsberg M D, Pulsinelli W A. (1994). The ischemic penumbra, injury thresholds, and the therapeutic window for acute stroke. *Ann. Neurol*, 36, pp.553-4.

- Green SL, Kulp KS, Vulliet R. (1997). Cyclin-dependent kinase 5 activity increases in rat brain following ischemia, *Neurochem. Int*, 31, pp. 617-23.
- Gund B M, gtap P N, Ingale V B, Patil R Y. (2013). Stroke: a brain attack. *Journal of Pharmacy*, 3(8), pp.1-23
- Guo S, Barringer F, Zois N E, Goetze JP, Ashina M. (2014). Natriuretic peptides. *Regulatory Peptides*. 192 (193), pp.15-23.
- Hadi HAR, Carr CS, Suwaidi JA. (2005). Endothelial dysfunction: cardiovascular risk factors, therapy, and outcome. *Vascular Health and Risk Management*, 1(3), pp.183–198.
- Hagberg H, Lehmann A, Sandberg M, Nystorm B, Jacobson I, Hamberger A. (1985). Ischemia-induced shift of inhibitory and excitatory amino acids from intra-to extracellular compartments. *J. Cereb. Blood Flow Metab*, 5(3), pp.413-419.
- Hankey GJ, Spiesser J, Hakimi Z, Bego G, Carita P, Gabriel S. (2007). Rate, degree, and predictors of recovery from disability following ischemic stroke. *Neurology*, 68 (19), pp.1538-7.
- Hart R G, Kanter M C. (1990). Hematologic disorders and ischemic stroke. *Stroke*, 21 ,pp.1111-21.
- Hata R, Maeda K, Hermann D, Mies G, Hossmann KA. (2000). Evolution of brain infarction after transient focal cerebral ischemia in mice. *J. Cereb . Blood Flow Metab*, 20, pp.937-946.
- Houssman K A, Heiss W D. (2014). *Textbook of Stroke Medicine*. Cambridge university pres , pp.1-10.
- Hseih CY, Lin H J, Hu Y H, Sung SF. (2017). Stroke severity may predict causes of readmission within one year in patients with first ischemic stroke event. *Journal of The Neurological Science*, 372, pp.21-27.
- Hunt P J, Espiner E A, Nicholls M G, Richards AM, Yandle TG. (1996). Differing biological effects of equimolar atrial and brain natriuretic peptide infusions in normal man. *J Clin Endocrinol Metab*, 81, pp.3871-6.
- Ishikawa H, Tajiri N, Vasconcellos J, Kaneko Y, Mimura O, Dezawa M, et al. (2013). Ischemic stroke brain sends indirect cell death signal to heart. *Stroke*, 44, pp.3175-82.

- James M L, Wang H, Venkatraman T, Song P, Lascola C D, Laskowitz D T. (2010) Brain natriuretic peptide improves long-term functional recovery after acute CNS injury in mice. *J Neurotrauma*, 27, pp.217-28.
- Jensen J K, Atar D, Kristensen S R, Mickley H, Januzzi J L. (2009). Usefulness of natriuretic peptides testing for long term risk assessment following acute ischemic stroke. *Am J Cardiol*, 104(2), pp.287-91.
- Jin R, Yang G, Li G. (2010). Inflammatory mechanisms in ischemic stroke: Role of inflammatory cells. *J Leukoc Biol*, 87(5), pp.779-89.
- Jung KH, Chu K, Lee S T, Kang L, Kim S U, Kim M, et al. (2006). G-CSF protects human cerebral hybrid neurons against in vitro ischaemia, *Neurosci. Lett*, 394, pp.168–73.
- Jung S, Gilgen M, Slotboom J, El-Koussy M, Zubler C, Kiefer C, et al. (2013). Factors that determine penumbral tissue loss in acute ischaemic stroke. *Brain*, 136, (12), pp.3554-60.
- Karaszewski B, Wardlaw J M, Marshall I, Voro V, Wartolowska K, Haga K, et al. (2009). Early brain temperature elevation and anaerobic metabolism in human acute ischaemic stroke, *Brain*, 132, pp. 955-64.
- Kasner S. (2006). Clinical interpretation and use of stroke scales. *The Lancet Neurology*, 5(7), pp.603-612.
- Kelly H M, Robertson J T, Broderick J P. (1998). The american heart association stroke outcome classification, executive summary. *Stroke*, 97, pp.2474-8.
- Kementerian Kesehatan RI. Riset Kesehatan Dasar tahun 2013.
- Kerola T, Nieminem T, Hartikainen S, Sulkava R, Vuolteenaho O, Kettunen R. (2010). B-type natriuretic peptide as a predictor of declining cognitive function and dementia-a cohort study of an elderly general population with a 5-year follow up. *Ann.Med*, 42(3), pp. 207-15.
- Kim SH, Lee JY, Park SH, Jang HC, Lim EJ, Chang SJ, Lee SS, et al. (2013). Plasma B-type natriuretic peptide level in patients with acute cerebral infarction according to infarction subtype and infarction volume. *Int J Med Sci*;10:103–109.
- Klatzo I. (1987). Pathophysiological aspects of brain edema, *Acta Neuropathol.* ,72, pp.236–9.

- Kohno M, Horio T, Yokokawa K, Akioka K, Ikeda M, Takeda T. (1992). Pulmonary arterial brain natriuretic peptide concentration and cardiopulmonary hemodynamics during exercise in patients with essential hypertension. *Metabolism*, 22, pp.231-6.
- Kristian T, Siesjo B K. (1998). Calcium in ischemic cell death. *Stroke*, 29, pp.705-718.
- Lai T W, Zhang S, Wang Y T. (2014). Excitotoxicity and stroke: Identifying novel targets for neuroprotection. *Prog Neurobiol*, 115, pp.157-188.
- Li J, Ma X, Yu W. (1989). Reperfusion middle cerebral artery occlusion without craniectomy in rats. *Stroke*, 20(1), pp.84-91.
- Lowe D G, Klisak I, Sparkles R S, Mohandas T, Goeddel D V. (1990). Chromosomal distribution of the members of the human natriuretic peptide receptor/guanylyl cyclase family. *Genomics*, 8, pp.304-12.
- Maack T, Okolicany J, Koh G Y, Price D A. (1993). Functional properties of atrial natriuretic factor receptors. *Semin Nephrol*, 13, pp.50-60.
- Machado V M, Morte M I, Carreira B P, Azevedo M M, Takano J, Iwata N, et al. (2015). Involvement of calpains in adult neurogenesis : implications for stroke. *Frontiers in Cellular Neuroscience*, 9 (22).
- MacManus JP, Buchan AM (2000). Apoptosis following experimental stroke: fact or fashion? *J. Neurotrauma* 17: 899-914.
- Mangla R, Kolar B, Almast J, Ekholm S E. (2011). Border zone infarcts: Pathophysiologic and imaging characteristics. *Radiographics*, 31, pp.1201-14.
- Mardjono M, Sidartha P. (2008) *Neurologi Klinis Dasar*.
- Maruyama K, Shiga T, Iijima M, Moriya S. (2013). Brain natriuretic peptide in acute ischemic stroke. *Journal of Stroke and Cerebrovascular Disease*, pp.1-6.
- Mckenzie J C, Berman N E, Thoma C R. (1994). Atrial natriuretic peptide-like (ANP-LIR) and ANP prohormone immunoreactive astrocytes and neurons of human cerebral cortex. *Glia*, 12, pp.228-43.
- Mehta S L, Vemuganti R. (2014). Mechanism of stroke induced neuronal death: multiple therapeutic opportunities. *Advances in Animal and Veterinary Sciences*; 2(8): 438-446.

- Menon B, Ramalingam K, Conjeevaram J, Munisusmitha K.(2016). Role of brain peptide as a novel prognostic biomarker in acute ischemic stroke. *Journal of Indian Academy of Neurology*; 19(4): 462-466.
- Nakagawa O, Ogawa Y, Itoh H, Suga S, Komatsu Y, Kishimoto I, et al. (1995). Rapid transcriptional activation and early mRNA turnover of brain natriuretic peptide in cardiocyte hypertrophy. Evidence for brain natriuretic peptide as an “ emergency” cardiac hormone against ventricular overload. *J Clin Invest*; 96, pp.1280-87.
- Nakao K, Ogawa Y, Suga S, Imura H. (1992). Molecular biology and biochemistry of the natriuretic peptide system. II: Natriuretic peptide receptors. *J Hypertens*, 10, pp.1111-4.
- Nakka V P, Gusain A, Mehta S L, Raghbir R. (2008). Molecular mechanisms of apoptosis in cerebral ischemia: Multiple neuroprotective opportunities. *Mol Neurobiol*, 37(1), pp.7-38.
- Nathisuwan S, Talbert R L. (2002). A review of vasopeptidase inhibitors: a new modality in the treatment of hypertension and chronic heart failure. *Pharmacotherapy*. 22(1): 27-42.
- Nigro N, Wildi K, Mueller C, Schuetz P, Mueller B, Fluri F, et al. (2014). BNP but not s-ctn is associated with cardioembolic aetiology and predicts short and long term prognosis after cerebrovascular events. *Plus One*, 9(7), pp.e102704.

