

DAFTAR PUSTAKA

- Avery, JK., Chiego, DJ. 2008. *Essential of Oral Histology and Embriology, A Clinical Approach*, 3rd ed, Mosby, USA.
- Bansal D, Mahajan M. 2019. *Alveolar bone and gingival necrosis following pulp devitalization*. International journal of dentistry research; 4(1): 11-12.
- Beckmand S. 2018. *Live Cell Imaging of Apoptosis and Necrosis*. Principal Scientist, Applications Department, BioTek Instruments, Inc., Winooski, VT USA.
- Bulut S., et.al. 2006. *Expression of caspase-3, p53 and Bcl-2 in generalized aggressive periodontitis : research*. Biomed central : Head & Face Medicine 2006, 2:17; pp. 1-17.
- Dalimarta, S. 2003. Atlas tumbuhan obat Indonesia. Jilid ke-2. Cetakan pertama. Jakarta: penerbit Surabaya.
- Dewi Is, dkk. 2013. Keragaman Genetik Beberapa Genotipe Jarak Pagar (*Jatropha curcas* L.) Berdaya Hasil Tinggi Berdasarkan Karakter Morfologi, Agronomi, dan Isozim. Jurnal AgroBiogen 9(1):28-38.
- Dou L, et.al. 2018. *The prevalence of dental anxiety and its association with pain and other variables among adult patients with irreversible pulpitis*. BMC Oral Health. 18:101 <https://doi.org/10.1186/s12903-018-0563-x>.
- Enggardipta, RA. Efek eugenol terhadap jumlah sel inflamasi pada pulpa gigi molar tikus Sprague Dawley. Maj Ked Gi Ind. Agustus 2016; 2(2): 66.
- Feoktistov M, et.al. 2015. *Programmed necrosis and necroptosis signaling*. FEBS Journal 282. 19-31.



Fouad, A.F. *Molecular mediators of pulpal inflammation*. in Seltzer and Bender's Dental Pulp 2nd ed., eds. by K.M. Hargreaves, H.E. Goodis. 2nd ed., Chicago: Quintessence Publishing Co.; 2012. pp. 247-279.

Fulda S. 2013. *Alternative Cell Death Pathways and Cell Metabolism*. International Journal of Cell Biology:<http://dx.doi.org/10.1155/2013/463637>

Green DR and Llambi F. 2015. *Cell Death Signaling*. Department of Immunology, St. Jude Children's Research Hospital, Memphis, Tennessee 38105. Cold Spring Harb Perspect Biol 2015;7:a006080.

Giudice A, et.al. 2013. *Mandibular bone and soft tissues necrosis caused by an arsenical endodontic preparation treated with piezoelectric device : case report*. Hindawi Publishing Corporation Case Reports in Dentistry.

Han IS, et.al. 2008. *Role of apoptotic and necrotic cell death under physiologic conditions: mini review*. BMB reports: <http://bmbreports.org>

Irmaleny, et.al. 2011. *Effect of latex and extract of jatropha curcas linn on expression of substance p (SP) and cyclooxygenase-2 of dental pulp*. Dentika dental journal. Vol 16, No. 1, 2011: 31-35.

Istindiah NH, dkk. 2015. Peran p53 sebagai jalur kritis pada mekanisme kontrol siklus sel sebagai pecegah terjadinya kanker mulut. September: <https://www.researchgate.net/publication/307737909>.

Jordan S, et.al. Inflammation and the blood microvascular system. Cold spring harb perspect bio

Larasati N, Kamizar, Usman M. Distribusi penyakit pulpa berdasarkan etiologi dan asifikasi di RSKGM Fakultas Kedokteran Gigi, Universitas Indonesia tahun 2009-2013. Universitas Indonesia.



- Lee SY, et.al. 2018. *Regulation of tumor progression of programmed necrosis*. Oxidative Medicine and Cellular Longevity Volume 2018, Article ID 3537471, 28 pages
- Lee CH, et.al. 2016. *Mandibular bone necrosis after use of paraformaldehyde-containing paste*. ISSN 2234-7658 (print) / ISSN 2234-7666 (online) <https://doi.org/10.5395/rde.2016.41.4.332>.
- Liu T, et.al. 2014. *Single-cell imaging of caspase-1 dynamics reveals an all or none inflammasome signaling response*. Cell Reports 8;974–982, August 21.
- Lumongga F. 2008. Apoptosis. Repositori : Departemen patologi anatomi, Fakultas Kedokteran, Universitas Sumatera Utara (USU).
- Luminita MD., Marius R. 2004. *Normal And Inflammatory Human Dental Pulp:A Morphohistochemical Approach*. TMJ, Vol. 54, No. 1. p.7
- Maftucha, dkk. 2016. Keragaan morfologi dan daya hasil beberapa nomor hasil persilangan *jatropha curcas*. L dan tetuanya Seminar Nasional dan Gelar Produk. Senaspro.
- Martinon F and Tschoop J. 2004. *Inflammatory caspase : linking a intraseluller innate immune to autoinflammatory disease*. Cell, Vol. 117, 561–574
- Mattulada IK. 2008. Pengamatan histopatologis pulpa gigi M. nemestrina yang terpapar getah J. curcas. Journal of dentomaxillofacial science; 7(1); p. 19-25.
- Modaresi J, 2016. *Irreversible pulpitis and achieving profound anesthesia: Complexities and managements*. Anesthesia: Essays and Researches; 10(1); Jan-Apr.

et.al. 2016 *Acute dental pain I: pulpal and dentinal pain*. Nor tannlegeforen d.; 126: 10–8



- Natsir N, dkk. 2014. Pemanfaatan akar Sidaguri (*Sida rhombifolia*) sebagai bahan analgetik . Jurnal PDGI. Vol. 63, No. 2, Mei – Agustus 2014 Hal.66-69, ISSN 0024-9548
- O'Brien MA, et.al. 2008. *Apoptosis: a review of pro-apoptotic and antiapoptotic pathways and dysregulation in disease*. J Vet Emerg Crit Care;18(6):572-85.
- Ozgoz1 M, Calisir M, Arabac T. 2018. *Gingival Necrosis Caused by the use of Paraformaldehyde-Containing Paste: Case Series*. Adv Dent & Oral Health: 10 (2). DOI: 10.19080/ADOH.2018.10.555783.
- Pradeep AR., et.al.. 2016. *Expression of key executioner of apoptosis caspase-3 in periodontal health and disease : original article*. Journal of investigative and clinical dentistry; 7, 174-179.
- Prakoewa CR. 2008. *The Role of p53 in the Pathogenesis of Basal Cell Carcinoma. (SK PB IDI No. 318/PB/A.7/06/1990)*
- Purwaningsih E, 2014. Pemendekan telomer dan apoptosis. Jurnal kedokteran yarsi 22(2):132-141.
- Raof M, et.al. 2016. *The effects of inflammatory tooth pain on anxiety in adult male rats*. Basic and Clinical Neuroscience, 7(3), 259-268.
- Rechenberg DK, et.al. 2016. *Biological Markers for Pulpal Inflammation: A Systematic Review*. Plos one. doi:10.1371/journal.pone.0167289 November.
- Rostein I. Cohen's pathway of the pulp. 11th edition. Elsevier.
- Sabir A. *The Effect of Propolis on Cytokines during Dental Pulp Inflammation*. Journal of Apiculture. 2016; 31(1): 97-101

, Dorstyn L, Dawar S and Kuma S. 2015. *Old, new and emerging functions of caspases*. Cell Death and Differentiation; 22, pp: 526–539.



- Sari LM, 2016. Apoptosis : mekanisme molekuler kematian sel (literatur review).
Cakradonya Dent J; 10(2): 65-70. ISSN: 2085-546X; e-ISSN: 2622-4720.
Available at <http://www.jurnal.unsyiah.ac.id/CDJ>
- Sang HP, et.al. 2015. *Inflammation of the Dental Pulp*. Hindawi Publishing Corporation. *Mediators of Inflammation*. Article ID 980196, 2 pages
- Secheid RC, Weiss G., 2012. Wolfe's dental anatomy. 8th ed. China : Lippincott Williams and wilkins.
- Siregar F. 2000. Efek getah jatropha curca (*euphorbiaceae*) terhadap gigi dan jaringan periapiks [disertasi]. Jakarta: Program Pascasarjana Universitas Indonesia.
- Siregar F. 2015. *Cytotoxicity of Physic Nut (Jatropha curcasL.,Euphorbiaceae) Latex by Agar-Overlay*. Jurnal Kedokteran Yarsi: 23(3) :143-148
- Supriyadi. 2007. Apoptosis sel fibroblast akibat paparan radiasi ionisasi. Indonesia journal of dentistry. 14(1): 48-52.
- Tanumihardja M dkk, 2013. Aktivitas antibakteri ekstrak terstandar akar sidaguri (*S.rhombifolia*) terhadap *E. faecalis* dan *Actinomyces spp.* JDMFS; 12(2). ISSN:1412-8926
- Tanumihardja M., Natsir N., Mattulada IK., Lukman M., 2017. *Potent anti-inflammatory effect of root of sidaguri (Sida rhombifolia L) on rat periapical lesion model*. International journal of toxicological and pharmacological research 8, 412-15.
- Tanumihardja M., Natsir N., Mattulada IK., Lukman M., 2019. Potensi kombinasi ekstrak akar sidaguri (*Sida rhombifolia L.*) dan getah jarak (*Jatropha curcas L.*) sebagai bahan devitalisasi. Odonto dental journal, 6 (1) ; Juli 2019.

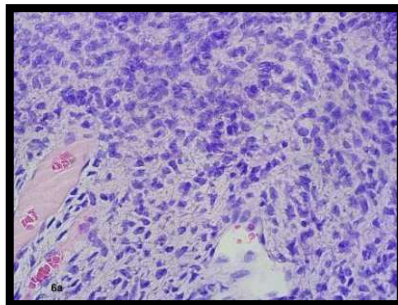
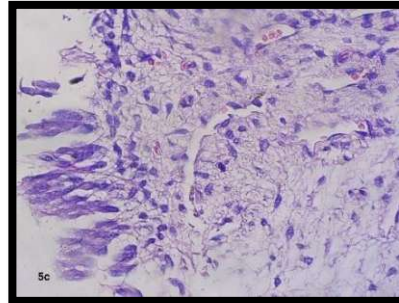
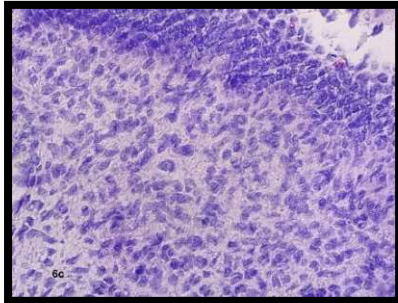
2007. Peran Kaspase pada Apoptosis sebagai salah satu usaha dalam kemoterapi kanker. JKM. Vol. 7, No. 1, Juli: 91-97.



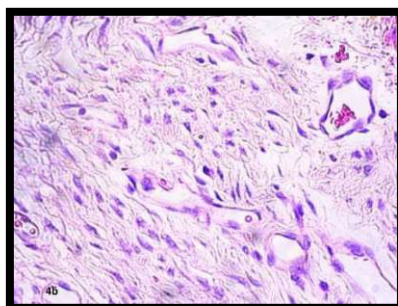
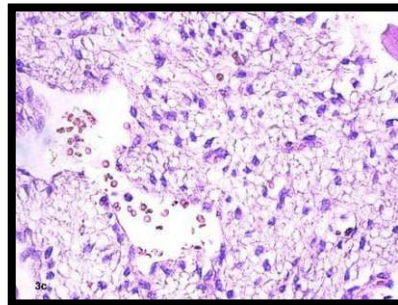
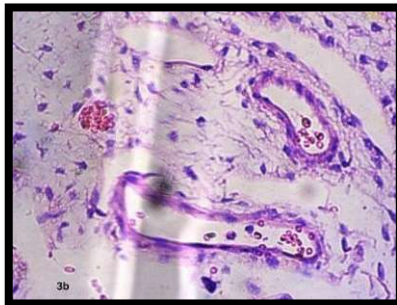
- Walton, R et.al. 2015. Principles and Practice of Endodontics. Philadelphia: 5th ed. Mosby, Inc; 2015:48-51 *Potent Anti-Inflammatory Effect of Root of Sidaguri (Sida rhombifolia L) on Rat Periapical Lesion Model.*
- Xi H, et.al. 2016. *Caspase-1 Inflammasome Activation Mediates Homocysteine-Induced Pyrop-Apoptosis in Endothelial Cells.* Aha Journal. DOI: 10.1161/CIRCRESAHA.116.308501.
- Yang Y, et.al. 2015. *Programmed cell death and its role in inflammation.* Military Medical Research; 2:12. DOI 10.1186/s40779-015-0039-0.
- Yazdi AS, et.al. 2010. *Inflammatory caspases in innate immunity and inflammation.* J innate immune 2;228
- Zhen-ya. 2013. *Analysis of clinical application of arsenic-free deactivating agent-Depulpin.* Life Science Journal 2013;10(1).



Gambaran Histopatologi

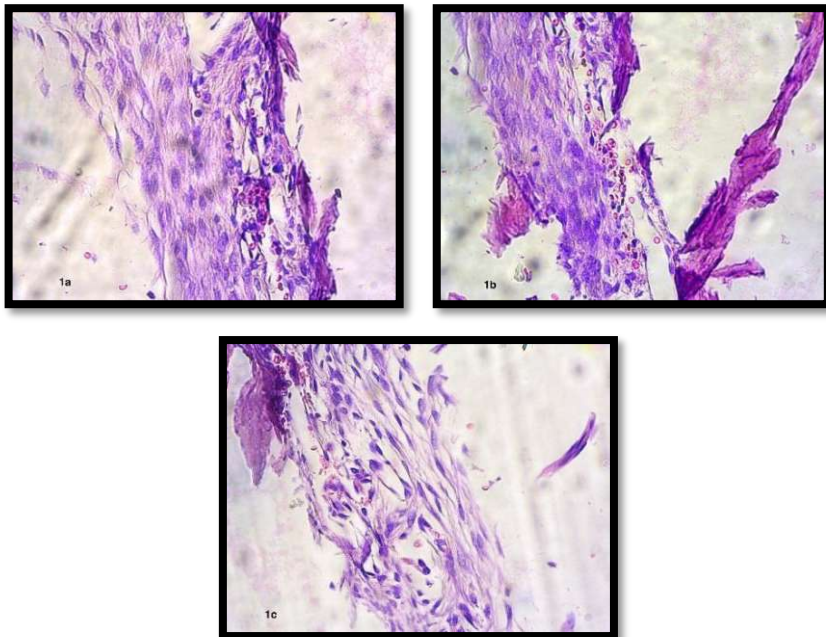


Kelompok Normal



Kelompok *pulp-out* dosis 25%





Kelompok *pulp-out* dosis 50%