Pengaruh Nano Spray Kulit Bawang Merah (Allium cepa L.) terhadap Jumlah Makrofag pada Penyembuhan
Ulserasi Mukosa Labial Tikus Wistar
LAYUNG SEKAR P, Dr. drg. Alma Linggar Jonarta, M.Kes.; Dr. drg. Juni Handajani, M.Kes., Ph.D.
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Alidadi, H., Khorsandi, L., dan Shirani, M., (2018) Effect of quercentin on tubular cell apoptosis and kidney damage in rats induced by titanium dioxide nanoparticles. *Malaysian Journal Medical Sciences.* 25(5): 72-81.

Baratawidjaja, K.G. dan Rengganis, I., (2010) *Imunologi Dasar Edisi ke Sembilan.* Jakarta: Balai Penerbit Fakultas Kedokteran Universitas Indonesia. pp. 62-64; 226-239.

Budi, H.S., Soesilowati, P., dan Imanina Z., (2017) Gambaran histopatologi penyembuhan luka pencabutan gigi pada makrofag dan neovaskular dengan pemberian getah batang pisang ambon. *Majalah Kedokteran Gigi Indonesia.* 3(3): 121-127.

Chen, L., Deng, H., Cui, H., Fang, J., Zuo, Z., Deng, J., Li, Y., Wang, X., dan Zhao, L., (2018) Inflammatory responses and inflammation-assosiated diseases in organs. *Oncotarget*. 9(6): 7204-7218.

Dahiya, P., dan Kamal, R., (2013) Hyaluronic acid: a boon in priodontal therapy. *North American Journal Medical Sciences.* 5(5): 309-315

Debnath, P., Mondal, A., Hajra, A., Das C., dan Mondal, N.K., (2018) Cytogenetic effects of silver and gold nanoparticles on *Allium cepa* roots. *Journal of Genetic Engineering and Biotechnology.* 16(2): 519–526.

Dehkordi, A.N., Babaheydari, F.M., Chehelgerdi, M., dan Dehkordi, S.R., (2019) Skin tissue engineering: wound healing based on stem-cell-based therapeutic, strategies. *Stem Cell Reasearch and Therapy*. 10(1): 1-20.

Destri, C., Sudiana, I.K., dan Nugraha, J., (2017) Potensi *Jatropha multifida* terhadap jumlah fibroblas pada aphtous ulcer mukosa mulut tikus. *Jurnal Biosains Pascasarjana.* 19(1): 1-13.

Dey, P., (2018) *Basic and advanced laboratory technique in histopathology and cytology.* Bangladesh: Springer. pp. 10-27; 69-79.

Du, Y., Ren, P., Wang, Q., Jiang, S.K., Zhang, M., Li, J.Y., Wang, L.L., dan Guan, D.W., (2018) Cannabinoid 2 receptor attenuates inflammation during skin wound healing by inhibiting M1 macrophages rather than acrivating M2 macrophages. *Journal of Inflammation.* 15(25): 1-12.

Ellis, S., Lin, E.J., dan Tartar, D., (2018) Immunology of wound healing. *Current Dermatology Reports.* 7(4): 350-358.

Enggardipta, R.A., Haniastuti, T., dan Handajani, J., (2016) Efek eugenol terhadap jumlah sel inflamasi pada pulpa gigi molar tikus sprague dawley. *Majalah Kedokteran Gigi Indonesia.* 2(2): 66-73.

Eroschenko, V.P., (2003) *Atlas histologi di fiore dengan korelasi fungsional edisi 9.* Jakarta: Penerbit Buku Kedokteran EGC. pp. 28.

UNIVERSITAS
GADJAH MADA
**Pengaruh Nano Spray Kulit Bawang Merah (Allium cepa L.) terhadap Jumlah Makrofag pada Penyembuhan
Ulserasi Mukosa Labial Tikus Wistar**
LAYUNG SEKAR P, Dr. drg. Alma Linggar Jonarta, M.Kes.; Dr. drg. Juni Handajani, M.Kes., Ph.D.
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

Ghosh, S., Ghosh, S., dan Sil, P.C., (2019) Role of nanostructures in improvising oral medicine. *Toxicology Report*. 6: 358–368. https://www.sciencedirect.com/science/article/pii/S2214750019301337?via%3Dihub#abs0005 (25/08/2019).

Graney, P.L., Lurier, E.B., dan Spiller, K.L., (2018) Biomaterials and bioactive factor delivery systems for the control of macrophage activation in regenerative medicine. *American Chemical Society Biomaterials Science and Engineering.* 4(4): 1137-1148.

Hamdan, S., Pastar, I., Drakulich, S., Dikici, E., Tomic-Canic, M., Deo, S., dan Daunert, S., (2017) Nanotechnology-driven therapeutic interventions in wound healing: potential uses and applications. *American Chemical Society Central Science*. 3(3): 163−175.

Herangga, T., (2019) Pengaruh aplikasi topikal gel ekstrak kulit bawang merah *(Allium cepa* L.) 10% terhadap jumlah sel makrofag pada proses penyembuhan luka gingiva tikus *Rattus norvegicus.* Yogyakarta: Skripsi Fakultas Kedokteran Gigi.

Hidayat, F.K., Elfiah, U., dan Sofiana, K.D., (2015) Perbandingan jumlah makrofag pada luka incisi full thickness antara pemberian ekstrak umbi bidara upas dengan NaCl tikus wistar jantan. *Journal of Agromedicine and Medical Sciences.* 1(1): 9-13.

Jafar, G., Adiyati, I., dan Kartanagara, R.F.F., (2017) Pengembangan formula dan karakterisasi nanoemulsi ekstrak kombinasi daun teh dan mangkokan yang diinkorporasikan ke dalam spray sebagai penumbuh rambut. *Jurnal Pharmascience*. 4(2): 155-166.

Jain, A., Singh, S.K., Arya, S.K., Kundu, S.C., dan Kapoor, S., (2018) Protein nanoparticles: promising platforms for drug delivery applications. *American Chemical Society Biomaterials Science and Engineering.* 4(12): 3939-3961.

Jong, W.H.D. dan Borm, P.J.A., (2008) Drug delivery and nanoparticles: applications and hazards. *International Journal of Nanomedicine.* 3(2): 133-149.

Kabrah, A., Faidah, H., Ashshi, A., dan Turkistani, S., (2016) Antibacteria effect of onion. *Scholars Journal of Applied Medical Sciences.* 4(11D): 4128- 4133.

Kartika, A.A., Siregar, H.C.H., dan Fuahl, A.M., (2013) Strategi pengembangan usaha ternak tikus *(Rattus norvegicus)* dan mencit *(Mus musculus)* di fakultas peternakan IPB. *Jurnal Ilmu Produksi dan Teknologi Hasil Peternakan.* 1(3): 147-154.

Kawauchi, H., (2013) *Nasal Physiology and Pathophysiology of Nasal Disorders*. Berlin: Springer. pp.77-88.

Khwaja, T. dan Tayaar, S.A., (2016) Review of oral ulcer: a diagnostic dilemma *Journal of Medicine, Radiology, Pathology and Surgery*. 3(5): 20–24.

UNIVERSITAS
GADJAH MADA
**Pengaruh Nano Spray Kulit Bawang Merah (Allium cepa L.) terhadap Jumlah Makrofag pada Penyembuhan
Ulserasi Mukosa Labial Tikus Wistar**
LAYUNG SEKAR P, Dr. drg. Alma Linggar Jonarta, M.Kes.; Dr. drg. Juni Handajani, M.Kes., Ph.D.
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

Koo, S. dan Garg, N.J., (2019) Metabolic pragramming of macrophage function, and pathogens control. *Redox Biology*. 24: 1-12. https://www.sciencedirect.com/science/article/pii/S2213231719303398?via%3Dihub (25/08/2019).

Krzyszczyk, P., Schloss, R., Palmer, A., dan Berthiaume, F., (2018) The role of macrophages in acute and chronic wound healing and interventions to promote pro-wound healing phenotypes. *Frontiers in Physiology*. 9(419): 1-22.

Lee, H.N., Shin, S.A., Choo, G.S., Kim, H.J., Park, Y.S., Kim, B.S., Kim, S.K., Cho, S.D., Nam, J.S., Choi, C.S., Che, J.H., Park, B.K., dan Jung, J.Y., (2018) Anti-inflammatory effect of kuersetin and galangin in lps-stimulated raw2647 macrophages and dncb-induced atopic dermatitis animal models. *International Journal of Molecular Medicine.* 41(2): 888-898.

Liu, Y., Hardie, J., Zhang, X., dan Rotello, V.M., (2017) Effects of engineered nanoparticles on the innate immune system. *Semon Immunol*. 34: 25-32.

Lombardo, D., Kiselev, M.A., dan Caccamo, M.T., (2019) Review article: smart nanoparticles for drug delivery application: development of versatile nanocarrier platforms in biotechnology and nanomedicine. *Journal of Nanomaterials.* 1-26. https://doi.org/10.1155/2019/3702518 (19/02/2020).

Major, M., Ban, S.G., Urli, B., Ban, D., Dumi, G., dan Perkovi, J., (2018) Morphological and biochemical diversity of shallot landraces preserved along the croatian coast. *Frontiers in Plant Science.* 9(1749): 1-14.

Mandla, S., Huyer, L.D., dan Radisic, M., (2018) Review: multimodal bioactive material approaches for wound healing. *APL Bioengineering*. 2(2). https://aip.scitation.org/doi/10.1063/1.5026773 (25/08/2019).

Marrelli, M., Amodeo, V., Statti, G., dan Conforti, F., (2019) Review: biological properties and bioactive components of *Allium cepa* L.: focus on potential benefits in the treatment of obesity and related comorbidities. *Molecules.* 24(119): 1-18.

Mescher, A.L., (2014) *Histologi Dasar Jonqueira: Teks dan Atlas Edisi 12.* Jakarta: Penerbit Buku Kedokteran EGC. pp. 87.

Ningsih, N., Yasni, S., dan Yuliani, S., (2017) Sintesis nanopartikel ekstrak kulit manggis dan kajian sifat fungsional produk enkapsulasinya. *Jurnal Teknologi dan Industri Pangan.* 28(1): 27-35.

Parmar, K. dan Patel M.B., (2017) A review on sublingual spray: novel drug delivery system. *International Journal of Pharmaceutical Sciences and Research.* 8(11): 4533-4539.

Patra, J.K., Das, G., Fraceto, L.F., Campos, E.V.R., Rodriguez-Torres, M.D.P., Acosta-Torres, L.S., Diaz-Torres, L.A., Grillo, R., Swamy, M.K., Sharma, S., Habtemariam, S., Shin, dan H.S., (2018) Nano based drug delivery

UNIVERSITAS
GADJAH MADA
**Pengaruh Nano Spray Kulit Bawang Merah (Allium cepa L.) terhadap Jumlah Makrofag pada Penyembuhan
Ulserasi Mukosa Labial Tikus Wistar**
LAYUNG SEKAR P, Dr. drg. Alma Linggar Jonarta, M.Kes.; Dr. drg. Juni Handajani, M.Kes., Ph.D.
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

systems: recent developments and future prospects. *Journal of Nanotechnology*. 16(17): 1-33.

Politis, C., Schoenaers, J., Jacobs, dan R., Agbaje, J.O., (2016) Wound healing problems in the mouth. *Frontier in Physiology*. 7(507): 1-13.

Porumb, V., Trandabat, A.F., Terinte, C., Caruntu, I.D., Andrese, E.P., Dimofte, M.H., dan Pieptu, D., (2017) Design and testing of experimental steam-induced burn model in rats. *BioMed Research International.* 1-10. https://www.hindawi.com/journals/bmri/2017/9878109/ (01/10/2019).

Pringgandini, L.A., Indarti, G.Y., Melinda, dan Sari, M., (2018) Efektivitas spray nanokolagen limbah sisik ikan mas *(Cyprinus carpio)* untuk mempercepat proses penyembuhan luka insisi. *Jurnal Kedokteran Gigi Unpad*. 30(2): 114-120.

Purnama, H., Sriwidodo, dan Ratnawulan, S., (2017) Review sistematik: proses penyembuhan dan perawatan luka. *Farmaka*. 15(2): 251-258.

Radha, M.H., dan Laxmipriya, N.P., (2015) Evaluation of biological properties and clinical effectiveness of *Aloe vera:* a systematic review. *Journal of Traditional and Complementary Medicine.* 5(1): 21-26.

Ravindran, P.N., (2017) *The Encyclopedia of Herbs and Spices*. Boston: CABI. pp. 683.

Rizvi, S.A.A., dan Saleh, A.M., (2018) Review: applications of nanoparticle systems in drug delivery technology. *Saudi Pharmaceutical Journal.* 26 (2018): 64-70.

Saraswati, C.H., Purnawati, R.D., dan Susilaningsih, N., (2016) Pengaruh pemberian ekstrak daun sirih merah *(Piper crocatum)* dosis bertingkat terhadap aktivitas fagositosis makrofag mencit balb/c yang diinfeksi *Salmonella typhimurium. Jurnal Kedokteran Diponegoro.* 5(4): 611-618.

Sari, A.M., Hendrawati, T.Y., Erdawati, dan Kusniah, M., (2018) Pengaruh konsentrasi sodium tripoly phosphat terhadap yield nanoemulsi kitosan dengan metode gelasi ionic. *Technopex.* 22-27. http://technopex.iti.ac.id/ocs/index.php/tpx18/tpx18/paper/download/8/13. (01/10/2019).

Sukadana, I.M., Santi, S.R., dan Melli, (2019) Potensi ekstrak etanol bawang merah dan garam NaCl menurunkan luas area serta meningkatkan kontraksi jaringan luka bakar. *Jurnal Kimia.* 13(1): 52-57.

Tsala, D.E., Joseph, M.N., Simplice, T., Nga, N., Jucques, E., dan David, M., (2015) Effect of methanol extractof *Allium cepa* Linn. On incisional wound healing in alloxan-induced diabetic mice. *Applied Medical Research.* 1(3): 90-93

Uskokovic, V. dan Uskokovic, D.P., (2018) *Nanotechnologies in Preventive and Degenerative Medicine.* Amsterdam: Elsevier. pp. 244-249.

UNIVERSITAS
GADJAH MADA
**Pengaruh Nano Spray Kulit Bawang Merah (Allium cepa L.) terhadap Jumlah Makrofag pada Penyembuhan
Ulserasi Mukosa Labial Tikus Wistar**
LAYUNG SEKAR P, Dr. drg. Alma Linggar Jonarta, M.Kes.; Dr. drg. Juni Handajani, M.Kes., Ph.D.
Universitas Gadjah Mada, 2020 | Diunduh dari http://etd.repository.ugm.ac.id/

Yunanda, V. dan Rinanda, T., (2016) Aktivitas penyembuhan luka sediaan topikal ekstrak bawang merah *(Allium cepa)* terhadap luka sayat kulit mencit *(Mus musculus)*. *Jurnal Veteriner*. 17(4): 696-704.

Zahin, N., Anwar, R., Tewari, D., Kabir, M.T., Sajid, A., Mathew, B., Uddin, M.S., Aleya, L., dan Abdel-Daim, M.M., (2019) Nanoparticles and its biomedical applications in health and diseases: special focus on drug delivery. *Environmental Science and Pollution Research*. https://link.springer.com/article/10.1007%2Fs11356-019-05211-0 (28/10/2019).