

DAFTAR PUSTAKA

- Adrian Surd, Dan Gheban, Aurel Mironescu, Cornel Aldea, Horatiu Gocan, & Maria Forssén. (2020). Peritonitis in Children. Epidemiological, Clinical and Therapeutical Study. *Jurnalul Pediatriei*, XXIII(89–90), 9–15. <https://doi.org/10.37224/jp.2020.8990.02>
- Ahmad, A., Husain, A., Mujeeb, M., Khan, S. A., Najmi, A. K., Siddique, N. A., Damanhoury, Z. A., & Anwar, F. (2013). A review on therapeutic potential of *Nigella sativa*: A miracle herb. *Asian Pacific Journal of Tropical Biomedicine*, 3(5), 337–352. [https://doi.org/10.1016/S2221-1691\(13\)60075-1](https://doi.org/10.1016/S2221-1691(13)60075-1)
- Ahmad, M. F., Ahmad, F. A., Ashraf, S. A., Saad, H. H., Wahab, S., Khan, M. I., Ali, M., Mohan, S., Hakeem, K. R., & Athar, M. T. (2021). An updated knowledge of Black seed (*Nigella sativa* Linn.): Review of phytochemical constituents and pharmacological properties. In *Journal of Herbal Medicine* (Vol. 25). Elsevier GmbH. <https://doi.org/10.1016/j.hermed.2020.100404>
- Akrom, & Fatimah. (2015). The Effects of Hexane Extracts from Black Cumin Seeds to the Phagocytic Activity of Macrophages SD (Sprague Dawley) Strain Female Rats by DMBA (7,12dimetilbenz(α)antrasen) Induced In Vitro. *Pharmacia*, 5(1), 69–79.
- Alamoudi, A. A., Alharbi, A. S., Abdel-Naim, A. B., Badr-Eldin, S. M., Awan, Z. A., Okbazghi, S. Z., Ahmed, O. A. A., Alhakamy, N. A., Fahmy, U. A., & Esmat, A. (2022). Novel Nanoconjugate of Apamin and Ceftriaxone for Management of Diabetic Wounds. *Life*, 12(7). <https://doi.org/10.3390/life12071096>
- Alhakamy, N. A., Caruso, G., Eid, B. G., Fahmy, U. A., Ahmed, O. A. A., Abdel-Naim, A. B., Alamoudi, A. J., Alghamdi, S. A., Sadoun, H. Al, Eldakhakhny, B. M., Caraci, F., & Abdulaal, W. H. (2021). Ceftriaxone and melittin synergistically promote wound healing in diabetic rats. *Pharmaceutics*, 13(10), 1–19. <https://doi.org/10.3390/pharmaceutics13101622>
- Amin, B., & Hosseinzadeh, H. (2016). Black Cumin (*Nigella sativa*) and Its Active Constituent, Thymoquinone: An Overview on the Analgesic and Anti-inflammatory Effects. In *Planta Medica* (Vol. 82, Issues 1–2, pp. 8–16). <https://doi.org/10.1055/s-0035-1557838>
- Anam, M. M., Usdiana Rosyida, D., Sintowati, R., & Sutrisna, E. (2021). EFEK ANTI-INFLAMASI EKSTRAK ETANOL 96% BIJI JINTAN HITAM (*Nigella sativa* L.) Anti-Inflammatory Effect Of Ethanolic Extract 96% Of Black Cumin Seeds (*Nigella sativa* L.). 1420–1430. <https://publikasiilmiah.ums.ac.id/xmlui/handle/11617/12839>
- Arquam, M. (2021). Pure honey and black seed (*Nigella sativa*) is the treatment and prevention of pandemic disease (corona virus). *Annals of the Romanian Society for Cell Biology*, 25(4), 3359–3363.

- Badiu, D. C., Paunescu, V., Aungurenci, A., & Pasarica, D. (2011). Proinflammatory cytokines in peritonitis. *Journal of Medicine and Life*, 4(2), 158–162.
- Bali, I., Polat, F. R., Aziret, M., Sözen, S., Oruç, C., Coskuncan, U., Emir, S., Bilir, B., & Koç, A. (2019). Protective effect of *Nigella sativa* in an animal model of colon anastomosis with ischemia/ reperfusion injury. *International Surgery*, 103(3–4), 139–148. <https://doi.org/10.9738/INTSURG-D-15-00301.1>
- Belgaumi, U. I., Patil, S., Gandhi, J. M., & Shete, A. S. (2020). The Many Therapeutic Applications of *Nigella sativa* - A Review of Literature. *Journal of Evolution of Medical and Dental Sciences*, 9(30), 2151–2157. <https://doi.org/10.14260/jemds/2020/469>
- Cardona, A. H., Hurtado Guerra, J. J., & Restrepo Gutiérrez, J. C. (2015). Update on spontaneous bacterial peritonitis. *Revista Colombiana de Gastroenterologia*, 30(3), 315–324. <https://doi.org/10.22516/25007440.56>
- Carmo, L., Amaral, M., & Bonet, B. (2017). *Primary Peritonitis in a Healthy Boy- Case Report*. 4(4), 55–56. <https://doi.org/10.19080/AJPN.2017.04.555698>
- Clements, T. W., Tolonen, M., Ball, C. G., & Kirkpatrick, A. W. (2021). Secondary Peritonitis and Intra-Abdominal Sepsis: An Increasingly Global Disease in Search of Better Systemic Therapies. *Scandinavian Journal of Surgery*, 110(2), 139–149. <https://doi.org/10.1177/1457496920984078>
- Damy, S. B., Ebisui, L., Spinelli, M. O., Osaka, J. T., Tolosa, E. M. C. de, & Ortiz, S. C. B. da C. (2002). Inbred F344 rats as a biologic model of intra-abdominal sepsis. *Brazilian Journal of Veterinary Research and Animal Science*, 39(1), 21–26. <https://doi.org/10.1590/s1413-95962002000100004>
- Gali-Muhtasib, H., El-Najjar, N., & Schneider-Stock, R. (2006). The medicinal potential of black seed (*Nigella sativa*) and its components. *Advances in Phytomedicine*, 2(C), 133–153. [https://doi.org/10.1016/S1572-557X\(05\)02008-8](https://doi.org/10.1016/S1572-557X(05)02008-8)
- Gordon, S., & Martinez-Pomares, L. (2017). Physiological roles of macrophages. *Pflugers Archiv European Journal of Physiology*, 469(3–4), 365–374. <https://doi.org/10.1007/s00424-017-1945-7>
- Guo, Y., Yang, X., Qi, Y., Wen, S., Liu, Y., Tang, S., Huang, R., & Tang, L. (2017). Long-term use of ceftriaxone sodium induced changes in gut microbiota and immune system. *Scientific Reports*, 7, 1–9. <https://doi.org/10.1038/srep43035>
- Hamid, M. . S. E. F. E. S. O. El. (2009). *Nigella sativa* modulates cytokines expression in mature bovine adipocytes. *Asian Journal of Biochemistry*, 4(2), 60–67.
- Hikmah, Z., Endaryanto, A., Ugrasena, I. D. G., Rahaju, A. S., & Arifin, S. (2022). *Nigella sativa* L. as immunomodulator and preventive effect on renal tissue

damage of lupus mice induced by pristane. *Heliyon*, 8(4).
<https://doi.org/10.1016/j.heliyon.2022.e09242>

Hussain, D. A., & Hussain, M. M. (2016). Nigella sativa (black seed) is an effective herbal remedy for every disease except death – a Prophetic statement which modern scientists confirm unanimously: A review. *Landline*, 8801912(April), 8802–8903.

Hussein, M. M., Abdel-Azeem, A. S., & El-Damhougy., S. T. (2016). The Health Benefits of Black Seed (Nigella sativa). *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 7(2428), 2428–2438.

INH, S. (2019). Meconium peritonitis. *British Journal of Surgery*, 5(2), 1–7.
<https://doi.org/10.1002/bjs.18004015907>

Isik, F., Tunali Akbay, T., Yarat, A., Genc, Z., Pisiriciler, R., Caliskan-Ak, E., Cetinel, S., AltIntas, A., & Sener, G. (2011). Protective effects of black cumin (Nigella sativa) oil on TNBS-induced experimental colitis in rats. *Digestive Diseases and Sciences*, 56(3), 721–730. <https://doi.org/10.1007/s10620-010-1333-z>

Johnson, C. C., Baldessarre, J., & Levison, M. E. (2018). Peritonitis: Update on pathophysiology, clinical manifestations, and management. *Clinical Infectious Diseases*, 24(6), 1035–1047. <https://doi.org/10.1086/513658>

Junga, A., Pilmane, M., Ābola, Z., & Volrāts, O. (2019). The morphopathogenetic aspects of intraabdominal adhesions in children under one year of age. *Medicina (Lithuania)*, 55(9). <https://doi.org/10.3390/medicina55090556>

Kanter, M. (2009). Effects of Nigella sativa seed extract on ameliorating lung tissue damage in rats after experimental pulmonary aspirations. *Acta Histochemica*, 111(5), 393–403. <https://doi.org/10.1016/j.acthis.2008.10.008>

Khilji, M. (2014). Primary Peritonitis—A Forgotten Entity. *European Journal of Pediatric Surgery Reports*, 03(01), 027–029. <https://doi.org/10.1055/s-0034-1374544>

Laurin, L. P., Brissette, M. J., Lepage, S., & Cailhier, J. F. (2012). Regulation of experimental peritonitis: A complex orchestration. *Nephron - Experimental Nephrology*, 120(1), 41–46. <https://doi.org/10.1159/000334169>

Mabewa, A., Seni, J., Chalya, P. L., Mshana, S. E., & Gilyoma, J. M. (2015). Etiology, treatment outcome and prognostic factors among patients with secondary peritonitis at Bugando Medical Centre, Mwanza, Tanzania. *World Journal of Emergency Surgery*, 10(1), 1–7. <https://doi.org/10.1186/s13017-015-0042-5>

Mahboubi, M. (2018). Natural therapeutic approach of Nigella sativa (Black seed) fixed oil in management of Sinusitis. *Integrative Medicine Research*, 7(1), 27–32. <https://doi.org/10.1016/j.imr.2018.01.005>

- Mahmoud, H. S., Almallah, A. A., Gad EL-Hak, H. N., Aldayel, T. S., Abdelrazek, H. M. A., & Khaled, H. E. (2021). The effect of dietary supplementation with *Nigella sativa* (black seeds) mediates immunological function in male Wistar rats. *Scientific Reports*, *11*(1), 1–13. <https://doi.org/10.1038/s41598-021-86721-1>
- Mahyoub, A., Alamri, A. M., Al-Saleh, A. N., Alessa, H. A., Alsaedi, W. H., Alshammari, M. A., Albalawi, S. A., Rafi, B. M., Alzahrani, S. M., Alamri, S. M., & Bokhari, A. M. (2019). Cronicon EC MICROBIOLOGY Presentation and Management of Acute Peritonitis. *EC MICROBIOLOGY*, *11*(15), 172–178.
- Mohit, M., Farrokhzad, A., Faraji, S. N., Heidarzadeh-Esfahani, N., & Kafeshani, M. (2020). Effect of *Nigella sativa* L. supplementation on inflammatory and oxidative stress indicators: A systematic review and meta-analysis of controlled clinical trials. *Complementary Therapies in Medicine*, *54*(July), 102535. <https://doi.org/10.1016/j.ctim.2020.102535>
- Naseem, S., Iqbal, R., & Munir, T. (2016). Role of Interleukin-6 in Immunity : A Review. *International Journal of Life Sciences Research*, *4*(2), 268–274.
- Nitihapsari, G. Y., S, O. P., & Ferine, M. (2020). Immunomodulatory Effect of *Nigella sativa* Extract through the Improvement of IL-1 β Level in Balb-c Mice Infected by Methicillin-resistant *Staphylococcus aureus*. *Jurnal Kedokteran Brawijaya*, *31*(2), 85. <https://doi.org/10.21776/ub.jkb.2020.031.02.3>
- Ordoñez, C. A., & Puyana, J. C. (2006). Management of Peritonitis in the Critically Ill Patient. *Surgical Clinics of North America*, *86*(6), 1323–1349. <https://doi.org/10.1016/j.suc.2006.09.006>
- Osifo, O. D., & Ogiemwonyi, S. O. (2011). Peritonitis in children: Our experience in Benin City, Nigeria. *Surgical Infections*, *12*(2), 127–130. <https://doi.org/10.1089/sur.2010.046>
- Perveen, R. (2019). Therapeutic effects of black cumin (*Nigella sativa*). A systematic review. *Progress in Nutrition*, *21*, 40–49. <https://doi.org/10.23751/pn.v21i1-S.5796>
- Purnamayanti, N. M. D., Windu, S. C., & Poeranto, S. (2018). Effect of *nigella sativa* ethanol extract on the nitric oxide content and renal arteriole diameter of a pre-eclampsia mouse model. *Eurasian Journal of Medicine*, *50*(3), 148–151. <https://doi.org/10.5152/eurasianjmed.2018.17123>
- Quantikine. (2019). *Human IL-6 Immunoassay* (Vol. 6, p. 1).
- Rigalli, A., & Loreto, V. E. Di. (2009). *Experimental Surgical Models in the Laboratory Rat*.
- Rincon, M. (2012). Special issue on interleukin-6 (IL-6). *International Journal of Biological Sciences*, *8*(9), 1225–1226. <https://doi.org/10.7150/ijbs.8.1225>

- Ross, J. T., Matthay, M. A., & Harris, H. W. (2018). Secondary peritonitis: Principles of diagnosis and intervention. *BMJ (Online)*, 361. <https://doi.org/10.1136/bmj.k1407>
- Sartelli, M., Catena, F., Abu-Zidan, F. M., Ansaloni, L., Biffl, W. L., Boermeester, M. A., Ceresoli, M., Chiara, O., Coccolini, F., De Waele, J. J., Di Saverio, S., Eckmann, C., Fraga, G. P., Giannella, M., Girardis, M., Griffiths, E. A., Kashuk, J., Kirkpatrick, A. W., Khokha, V., ... Moore, E. E. (2017). Management of intra-abdominal infections: Recommendations by the WSES 2016 consensus conference. *World Journal of Emergency Surgery*, 12(1), 1–31. <https://doi.org/10.1186/s13017-017-0132-7>
- Shanker, M. R., Nahid, M., & S., P. (2018). A clinical study of generalised peritonitis and its management in a rural setup. *International Surgery Journal*, 5(11), 3496. <https://doi.org/10.18203/2349-2902.isj20184217>
- Sherif, F. A. El, Tohamy, M., A. M. Mostafa, M., Adlan, S. de la, Mohamed, S. A.-B., Mansour, S., & Mohammed, M. M. (2022). Effect of local wound infiltration with ketamine versus dexmedetomidine added to bupivacaine on inflammatory cytokines, a randomized clinical trial. *Open Journal of Anesthesiology*, 12(08), 261–277. <https://doi.org/10.4236/ojanes.2022.128024>
- Skipworth, R., & Fearon, K. (2007). Emergency Surgery Acute abdomen: peritonitis Pathophysiology. *Emergency Surgery*, 26(3), 1–4.
- Tajkey, J., Ramazani, A., Biglari, A., Mazlomzadeh, S., & Asi, B. H. (2014). Ceftriaxone Improves Neuron Protection and Functional Recovery in Rat Model of Spinal Cord Injury. *Annual Research & Review in Biology*, 4(12), 100–109. <https://doi.org/10.1016/j.brainres.2010.11.061>
- Tanaka, T., Narazaki, M., & Kishimoto, T. (2014). *IL-6 in Inflammation, Immunity, and Disease*. 6(Kishimoto 1989), 1–16.
- Tavakkoli, A., Mahdian, V., Razavi, B. M., & Hosseinzadeh, H. (2017). Review on clinical trials of black seed (*Nigella sativa*) and its active constituent, thymoquinone. *Journal of Pharmacopuncture*, 20(3), 179–193. <https://doi.org/10.3831/KPI.2017.20.021>
- Tochie, J. N., Agbor, N. V., Frank Leonel, T. T., Mbonda, A., Aji Abang, D., & Danwang, C. (2020). Global epidemiology of acute generalised peritonitis: A protocol for a systematic review and meta-analysis. *BMJ Open*, 10(1), 1–4. <https://doi.org/10.1136/bmjopen-2019-034326>
- Van Biesen, W., & Brown, E. A. (2017). Diagnostic and therapeutic approach to peritonitis. *Nephrology Dialysis Transplantation*, 32(8), 1283–1284. <https://doi.org/10.1093/ndt/gfx226>
- Van Snick, J. (1990). Interleukin-6: An Overview. *Annual Review of Immunology*, 8(1), 253–278. <https://doi.org/10.1146/annurev.iy.08.040190.001345>

- Vaz, N. P., De Oliveira, D. R., Abouelella, G. A., & Khater, H. F. (2018). The black seed, *Nigella sativa* (Ranunculaceae), for prevention and treatment of hypertension. *RPMP Hypertension of the Series*, 48(January 2019), 221–244.
- Warsinggih. (2017). Peritonitis dan illeus. *Bahan Ajar DR Dr. Warsinggih, Sp. B-KBD*, 24.
- Xiao, Z., Wilson, C., Robertson, H. L., Roberts, D. J., Ball, C. G., Jenne, C. N., & Kirkpatrick, A. W. (2015). Inflammatory mediators in intra-abdominal sepsis or injury - a scoping review. *Critical Care*, 19(1), 1–13. <https://doi.org/10.1186/s13054-015-1093-4>
- Yang, X., Tong, Y., Yan, H., Ni, Z., Qian, J., & Fang, W. (2018). High Intraperitoneal Interleukin-6 Levels Predict Peritonitis in Peritoneal Dialysis Patients: A Prospective Cohort Study. *American Journal of Nephrology*, 47(5), 317–324. <https://doi.org/10.1159/000489271>
- Zakaria, A. S., Melake, N. A., Baky, N. A., Rasheed, N. M. El, & Ibrahim, N. H. (2012). In vitro and in vivo studies of antibacterial effect of ceftriaxone moxifloxacin combination against methicillin resistant *Staphylococcus aureus* biofilms formed on biomedical implants. *African Journal of Microbiology Research*, 6(25), 5399–5409. <https://doi.org/10.5897/ajmr12.724>
- Zhao, Z., Wang, B., Mu, L., Wang, H., Luo, J., Yang, Y., Yang, H., Li, M., Zhou, L., & Tao, C. (2020). Long-Term Exposure to Ceftriaxone Sodium Induces Alteration of Gut Microbiota Accompanied by Abnormal Behaviors in Mice. *Frontiers in Cellular and Infection Microbiology*, 10(June), 1–15. <https://doi.org/10.3389/fcimb.2020.00258>
- Zorludemir, U., Koca, M., Olcay, I., & Yücesan, S. (1992). Neonatal peritonitis. *The Turkish Journal of Pediatrics*, 34(3), 157–166. [https://doi.org/10.1016/s0022-3468\(67\)80123-4](https://doi.org/10.1016/s0022-3468(67)80123-4)

LAMPIRAN I

BIODATA PENULIS

A. IDENTITAS DIRI

Nama : dr. Hidayah Mararotua Harahap
Tempat dan tanggal lahir : Pekanbaru, 5 Juli 1991
Jenis kelamin : Pria
Agama : Islam
Pekerjaan : PNS
Alamat korespondensi : JL. Permata II no. 3 , Labuh Baru Barat,
Pekanbaru, Riau

B. RIWAYAT KELUARGA

Ayah

Nama : Ir. H. Marathaib Harahap M.MA
Agama : Islam
Pekerjaan /Jabatan : PNS (Pensiunan)

Ibu:

Nama : Hj. Asnani Jamaris, S. PKP
Agama : Islam
Pekerjaan /Jabatan : PNS (Pensiunan)

C. RIWAYAT PENDIDIKAN DAN PELATIHAN

- Taman Kanak – Kanak: TK An-Nur , Pekanbaru (1995)
- Sekolah Dasar : SD Negeri 007 Tampan Pekanbaru (1996)
- Sekolah Menengah Pertama : SMP Negeri 4 Pekanbaru (2002)
- Sekolah Menengah Atas : SMA Negeri 8 Pekanbaru (2005)
- S1 Fakultas Kedokteran : Universitas Islam Sumatera Utara (2008)
- Program Studi Dokter Spesialis :Program Studi Ilmu Bedah Universitas Hasanuddin, Makassar, Sulawesi Selatan (2018)

D. RIWAYAT ORGANISASI

Anggota IDI

E. RIWAYAT PENELITIAN DAN PUBLIKASI

1. Faktor-faktor yang mempengaruhi anak jalanan di Kota Medan menghirup zat addiktif berupa lem.
2. Factors related with length of stay (LOS) on digestive surgical patient in Dr. Wahidin Sudirohusodo Hospital, Makassar, Indonesia.

Makassar, Desember 2022

dr. Hidayah Mararotua Harahap

LAMPIRAN II



Pemeliharaan Hewan Coba



Anestesi umum menggunakan eter



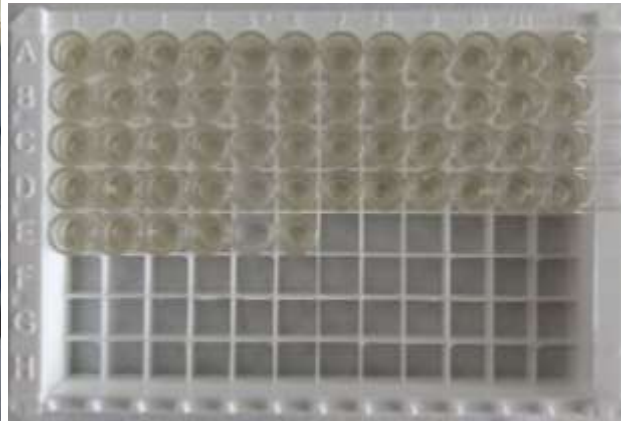
Injeksi Peritoneal



Penyuntikan ceftriaxone intramuskular



Pengambilan darah



Persiapan dan pengisian plate



Pengisian plate dengan substrat



Plate setelah stop reaksi



Baca plate kedalam mesin elisa dengan filter 450 nm