

DAFTAR PUSTAKA

- Aaraji, A.S.A. 2015. Study of Some Anatomical and Histological Characteristics in Liver of Male Indigenous Turkey (*Meleagris gallopava*). *Bas J Vet Res*, Vol.14, No.2.
- Abu, D.N.H.B., Htin, N.N., Abba, Y., Paan, F.H., Kyaw, T., Khaing, A.T., Jesse, F.F.A., Mohammed, K., Adamu, L., dan Tijjani, A. 2014. An Outbreak of Colibacillosis in a Broiler Farm. *J Vet Adv 2014*, 4(7): 646-651.
- Abalaka, S. E., Sani, N. A., Idoko, I. S., Tenuche, O. Z., Oyelowo, F. O., Ejeh, S. A., dan Enem, S. I. 2017. Pathological Changes Associated with an Outbreak of Colibacillosis in A Commercial Broiler Flock. *Sokoto Journal of Veterinary Sciences*, Vol. 15 (3): 95-102.
- Amer, M. M., Elbayoumi, Kh. M., Girh, Z. M. S. A., Hassan, E.R., Bosila, M. A., Mekky, H. M. 2016. Effect of Prebiotic and/or Antibacterial Drug on Performance of Broiler Infected with *E. coli*. *International Journal of PharmTech Research*, Vol.9, No. 12, pp 58-69.
- Andayani, N. K. P. S., Setyawati, I., Joni, M. 2018. Kidney Histopathology of *Gallus gallus domesticus* Infected by *E. coli* in Denpasar, Bali. *Tropical Biodiversity and Environmental Sciences* Vol. 2, No. 1: 14-17.
- Anonim. 2012. Use of Colistin Product in Animals Within the European Union : Development of Resistance and Possible Impact on Human and Animal Health. *European Medicines Agency/755938/2012*.
- Aughey, E., Frye, F.L. 2011. *Comparative Veterinary Histology with Clinical Correlates*. London : Manson Publishing, 124.
- Bacha, W.J. Jr., dan Bacha, L.M. 2000. *Color Atlas of Veterinary Histology 2nd Ed.* USA : Lippincott Williams & Wilkins.
- Baranwal, A., Singh, N.P., Kumar, A., Kumar, A., Upadhyaya, P.K., Srivastava, A.K. 2019. Colibacillosis in Broilers : A Case Report. *Journal of Entomology and Zoology Studies 2019*; 7(5): 163-166.
- Budiman, H., Ferasyl, T.R., Tapielaniari, Salim, M.N., Balqis, U., Hambal, M. 2015. Pengamatan Lesi Makroskopis pada Hati Ayam Broiler yang Dijual di Pasar Lambaro Aceh Besar dan Hubungannya dengan Keberadaan Mikroba. *Jurnal Medika Veterinaria*, Vol.9, No.1, Februari 2015.
- Dantzler, W.H. 2016. *Comparative Physiology of the Vertebrate Kidney 2nd Ed.* New York : Springer-Verlag.
- Dijk, J.E., Gruys, E., Mouwen, J.M.V.M. 2007. *Color Atlas of Veterinary Pathology 2nd Ed.* Amerika : Saunders Elsevier, 60.

- Dutta P, Borah MK, Sarmah R & Gangil R (2013). Isolation, histopathology and antibiogram of *Escherichia coli* from pigeons (*Columba livia*). *Veterinary World*, 6(2): 91-94.
- El-Ghany, W.A.A., dan Madian, K. 2011. Control of Experimental Colisepticaemia in Broiler Chickens Using Sarafloxacin. *Life Science Journal*, Vol. 8, Issue 3, 2011.
- El-Sawah, A. A., Dahshan, A. M., El-Nahass, E., El-Mawgoud, A. I. A. 2018. Pathogenicity of *Escherichia coli* O157 in Commercial Broiler Chickens. *Beni-Suef University Journal of Basic and Applied Sciences*, Vol. 7, Issue 4.
- Fadilah, R. dan Polana, A. 2005. *Aneka Penyakit pada Ayam dan Penanggulangannya*. Jakarta: Agro Media Pustaka.
- Goldstein, D.L., dan Skadhauge, E. 1998. *Renal and Extrarenal Regulation of Body Fluid Composition In Sturkie's Avian Physiology*. London : Academic Press.
- Goodsell, D.S. 2009. Miniseries : Illustrating the Machinery of Life *Escherichia coli*. *BAMBED*, Vol. 37, No. 6, pp. 325-332, 2009.
- Guabiraba, R., dan Schouler, C. 2015. Avian Colibacillosis : Still Many Black Holes. *FEMS Microbiology Letters*, 2015, Vol. 362, No. 15.
- Hacker, M., Bachmann, K., dan Messer, W. 2009. *Pharmacology : Principles and Practice*. New York: Elsevier, 182.
- Hodges, R.D. 1974. *The Histology of The Fowl*. London : Academic Press, 490-495.
- Hombach, M., Maurer, F. P., Pfiffner, T., Böttger, E. C., and Furrer, R. 2015. Standardization of Operator-Dependent Variables Affecting Precision and Accuracy of the Disk Diffusion Method for Antibiotic Susceptibility Testing. *Journal of Clinical Microbiology* Vol. 53 : 12.
- Hoppe, P.P. 1999. Poultry International: Asia Pacific Ed., 38(11):52-62.
- Isikhnas. 2014. *Manual Penyakit Unggas Cetakan 2*. Kementerian Pertanian Direktorat Jenderal Peternakan dan Kesehatan Hewan.
- Iqbal, J., Bhutto, A.L., Shah, M.G., Lochi, G.M., Hayat, S., Ali, N., Khan, T., Khan, T., Khan, A.M., Khan, S.A. 2014. Gross Anatomical and Histological Studies on the Liver of Broiler. *Journal of Applied Environmental and Biological Sciences*, 4(12)284-295, 2014.
- Kabir, S.M.L. 2010. Avian Colibacillosis and Salmonellosis: A Closer Look at Epidemiology, Pathogenesis, Diagnosis, Control and Public Health Concerns. *International Journal of Environmental Research and Public Health* 2010, 7, 89-114.

- Kumar, A., Jindal, N., Shukla, C. L., Asrani, R. K., Ledoux, D. R., dan Rottinghaus, G. E. 2004. Pathological changes in broiler chickens fed ochratoxin A and inoculated with *Escherichia coli*. *Avian Pathology* vol. 33(4): 413–417.
- Li, J., Nation, R.L., Turnidge, J.D., Wilne, R.W., Coulthard, K., Rayner, C.R., Paterson, D.L. 2006. Colistin: The Re-Emerging Antibiotic For Multidrug-Resistant Gram-Negatif Bacterial Infections. *Lancet Infect Dis.* 6 (9) : 589-601.
- Lierz, M. 2003. Avian Renal Disease: Pathogenesis, Diagnosis, and Therapy. *The Veterinary Clinics Exotic Animals Practice* (6), 29-55.
- Loho, T., dan Dharmayanti, A. 2015. Colistin : an Antibiotics and Its Role in Multiresistant Gram-negative Infections. *Acta Medica The Indonesian Journal of Internal Medicine*, Vol. 47, No. 2.
- Lullmann H, Mohr K, Ziegler A, Bieger D. 2000. *Color Atlas of Pharmacology 2nd Ed.* New York : Thieme, 34.
- Makiyah, A., dan Khumaisah, L. L. 2018. Studi Gambaran Histopatologi Hepar Tikus Putih Strain Wistar yang Diinduksi Aspirin Pascapemberian Ekstrak Etanol Umbi Iles-iles (*Amorphophallus variabilis* BI) Selama 7 Hari. *Majalah Kedokteran Bandung*, Vol. 50, No. 2.
- Markey, B., Leonard, F., Archambault, M., Cullinane, A., and Maguire, D. 2013. *Clinical Veterinary Microbiology Second Edition*. China: Mosby Elsevier.
- Marshall, A.J. 1960. *The Biology and Comparative Physiology of Bird Volume 1*. New York: Academic Press.
- McLelland, J. 1990. *A Colour Atlas of Avian Anatomy*. London: Wolfe Publishing Ltd.
- Mireles N.M., J.R. Johnson, B. Johnston, R. Curtiss dan M. Mellata. 2015. Zoonotic potential of *Escherichia coli* isolates from retail chicken meat products and eggs. *Appl Environ Microbiol.* 81(3):1177-1187.
- Muharlieni, Sudjarwo, E., Hamiati, A dan Setyo, H. 2017. *Ilmu Produksi Ternak Unggas*. Malang: UB Press.
- Myers, R.K., McGavin, M.D., dan Zachary, J.F. 2012. Cellular Adaptations, Injury and Death: Morphological, biochemical and genetic bases. In: *Pathological Basis of Veterinary Diseases*. (Zachary JF, MD McGavin, editors). First edition. Elsevier Mosby, St. Louis, Missouri, USA. Pp 1 - 59.
- Nakamura, K., Maeda, M., Imada, Y., Imada, T., Sato, K. 1985. Pathology of Spontaneous Colibacillosis in a Broiler Flock. *Vet.Pathol.* 22:592-597.

- Nutriana, C., dan Jatman, S. 2010. Studi Anatomi Ginjal Burung Walet Sarang Putih (*Collocalia fuciphaga*) dan Sriti (*Collocalia linchi*). *Jurnal Sain Vet*, Vol. 28, No. 2.
- Omer, M.M., Abusalab, S.M., Gumaa, M.M., Mulla, S.A., Omer, E.A., Jeddah, I.E., Al-Hassan, A.M., Hussein, M.A., dan Ahmed, A.M. 2010. Outbreak of Colibacillosis among Broiler and Layers Flocks in Intensive and Semi intensive Poultry Farms in Kassala State, Eastern Sudan. *Asian Journal of Poultry Science* 4 (4): 173-181.
- Palupi, M.F., Maheshwari, H., Darusman, H.S., Sudarnika, E., dan Wibawan, I.W.T. 2018. Resistansi *Escherichia coli* terhadap Kolistin dan Deteksi Gen *Mobilized Colistin Resistance-1* pada Ayam Pedaging Akibat Pemberian Kolistin Sulfat. *Jurnal Veteriner*, Vol. 19, No. 2, 196-207.
- Papich, M. G, Riviera, J. E. 2001. *Chloramphenicol and Derevatives, Macrolide and Miscellaneous Antibimicrobials* dalam: *Veterinary Pharmacology and Therapeutics*. Adam, R. (Ed), Eight Edition, Blackwell Publishing Company, State Avenue, Ames, Iowa: 890-891.
- Peighambari, S.M., Assadollahi, K., Yazdani, A. 2008. Efficacy of the Colistin Sulphate 3000000 Against *Salmonella* and *Escherichia coli* Infections in Broilers: a Farm Trial. *Departement of Clinical Sciences, Faculty of Veterinary Medicine, University of Tehran, Tehran*.
- Rasyaf, M. 2008. *Panduan Beternak Ayam Pedaging*. Jakarta: Penebar Swadaya.
- Reece, W.O. 2005. *Functional Anatomy and Physiology of Domestic Animals 3rd Ed*. Iowa : Blackwell Publishing.
- Reshag, A.F., Abood, D.A., Ektifaa, dan Khayoon, S. 2017. Histological and Histochemical Characteristics of the Kidneys in Different Avian Species. *Australian Journal of Basic and Applied Sciences*, 11 (16) December 2017, 36-44.
- Ressang, A.A. 1984. *Patologi Khusus Veteriner Edisi kedua*. NV. Percetakan Bali, Denpasar.
- Saif, Y., Barnes H. J., Fadly A. M., 2003. *Disease of Poultry*. Blackwell Publishing Company, Iowa, USA.
- Salawu, M. O., Abdulrahman, K., Oloyede, H. O. B. 2018. Oral Administration of *Escherichia coli* Endotoxin Caused Liver-Kidney Dysfunction and Death Rabbits. *FUOYE Journal of Engineering and Technology*, Vol. 3, Issue 1.
- Saleemi, M. K., Hussan, M. F. U., Khan, M. Z., Khan, A., Abbas, R. Z., Ahmad, A. 2014. Hemato-Biochemical Effect of Colistin Administered Intramuscularly in Growing Broiler Birds. *Pak Vet J* 34(1): 78-81.
- Santoso, H., dan Sudaryani, T. 2009. *Pembesaran Ayam Pedaging di Kandang Panggung Terbuka*. Jakarta: Penebar Swadaya.

- Sasongko, H. 2014. Uji Resistensi Bakteri *Escherichia coli* dari Sungai Boyong Kabupaten Sleman terhadap Antibiotik Amoksisilin, Kloramfenikol, Sulfametoksazol, dan Streptomisin. *Jurnal Bioedukatika* Vol. 2 No. 1.
- Slaoui, M., dan Fiette, L. 2011. Histopathology Procedures: From Tissue Sampling to Histopathological Evaluation. *Article in Methods in molecular biology*.
- Srinivasan P, Balasubramaniam GA, Murthy TR & Balachandran P (2014). Pathomorphological studies of polyserositis in commercial caged layer chicken. *Asian Pacific Journal of Tropical Medicine*, 7(Suppl 1): S313-S320.
- Sunarsih, E.S., Palupi, D. H. S., dan Hapsari, I. 2011. Pengaruh Praperlakuan Jus Kubis Bunga (*Brassica oleracea L. var botrytis L.*) terhadap Aktivitas Diklorofenak dalam Terapi Inflamasi. *Majalah Obat Tradisional*, 16(1), 7-13.
- Suryani, A.E., Karimy, M.F., Istiqomah, L., Sofyan, A., Herdian, H., dan Wibowo, M.H. 2014. Prevalensi Kolibasilosis pada Ayam Broiler yang Diinfeksi *Escherichia coli* dengan Pemberian Bioaditif, Probiotik, dan Antibiotik. *Widyariset*, Vol. 17, No. 2, Agustus 2014 233-244.
- Tabbu, C.R. 2000. *Penyakit Ayam dan Penanggulangannya, Volume 1*. Yogyakarta: Kanisius, 31-51.
- Tamalludin, F. 2014. *Ayam Broiler*. Penebar Swadaya. Jakarta Timur.
- Tarmudji. 2003. Kolibasilosis pada Ayam: Etiologi, Patologi, dan Pengendaliannya. *WARTAZOA*, Vol. 13, No. 2.
- Umam, M.K., Prayogi, H.S., dan Nurgiartiningsih, V.M.A. The Performance of Broiler Rearing in System Stage Floor and Double Floor. *Jurnal Ilmu-Ilmu Peternakan* 24 (3): 79-87.
- Wandono, Y.T., Brata, B., dan Prakoso, H. 2013. Presentase Organ Dalam dan Deposisi Lemak Broiler Yang Diberi Pakan Tambahan Tepung Kelopak Bunga Rosella (*Hibiscus Sabdariffa* Linn). *Jurnal Sain Peternakan Indonesia*, Vol. 8, No. 1.
- Wibowo, M.H., dan Amanu, S. 2009. Efektivitas Pengobatan Preparat Kombinasi Amoksisilin dan Kolistin Sulfat pada Kasus Infeksi Buatan *Escherichia coli* Patogen pada Ayam Broiler. *Jurnal Sain Vet*, Vol. 27, No. 1.
- Wibowo, M.H., dan Wahyuni, A.E.T. 2008. Studi Patogenesis *Escherichia coli* Isolat Unggas pada Ayam Pedaging Umur 15 Hari. *Jurnal Veteriner*, Vol. 9, No. 2: 87-93.
- Yuwanta, T. 2004. *Dasar ternak Unggas*. Yogyakarta: Penerbit Kanisius.



UNIVERSITAS
GADJAH MADA

Pengaruh Pemberian Kolistin terhadap Gambaran Histopatologi Hati dan Ginjal Ayam Broiler yang Diinfeksi *Escherichia coli*

ELENA MIA P, Dr. drh. Agustina Dwi Wijayanti, M. P.

Universitas Gadjah Mada, 2020 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Zaefarian, F., Abdollahi, M.R., Cowieson, A., dan Ravindran, V. 2019. Avian Liver: The Forgotten Organ. *Animals* 2019, 9, 63.