DAFTAR PUSTAKA

Alexander, D.J. 2011. Conference Presentation: Fifteen Years of H5N1, Influenza 2011. *Zoo. Influ. Human. Health*. Oxford.

Alexander, D.J. 2007. An overview of the epidemiology of avian influenza. *Vaccine*. 25: 5637-5644.

Anonim. 2013. *Chinese CDC: Update-Human Infection with Avian Influenza A (H7N9) Virus in China.*

Anonim. 2013. *WHO: Human infection with Avian Influenza A (H7N9) virus update. Writing committe of the second World Health Organization consultation on clinical aspects of human infection with Avian Influenza A (H5N1) virus* [Internet]. http://www.who.int. Diakses tanggal 8 November 2019 jam 08.00 WIB.

Anonim. 2018. *Statistik Peternakan dan Kesehatan Hewan Livestock dan Animal Health Statistics 2018*. Kementerian Pertanian Direktorat Jenderal Peternakan dan Kesehatan Hewan. http://ditjenpkh.pertanian.go.id. Diakses tanggal 20 Januari 2020 jam 05.00 WIB.

Bakeer, A.M., Khattab, M.S., Aly, M.M., Arafa, A.S., Amer, F., Hafez, H.M., and Afify, M.M.H. 2018. Estimation pf pathological and molecular findings in vaccinated and non-vaccinated chickens challenged with highly pathogenic avian influenza H5N1 virus. *Pak. Vet. J*. DOI: 10.29261/pakvetj/2018.112

Bano, S., Naeem, K., and Malik, S.A. 2003. Evaluation of pathogenic potential of avian influenza virus serotype H9N2 in chickens. *Avian. Dis*. 47: 817-822.

Belser, J. A., Bridges, C. B., Katz, J. M., and Tumpey, T. M. 2009. Past, present, and possible future human infection with influenza virus A subtype H7. *Emerg. Infect. Dis*. 15(6): 859-865.

Bennet, J.E., Dolin, R., and Blaser, M.J. 2015. *Principles and Practice of Infectious Diseases: 8th Edition*. Elsevier. Amsterdam.

Bennett, J.E., Dolin, R., and Blaser, M.J. 2015. *Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 8th Edition*. Philadelphia: Saunders.

Bertran, K., Dong-Hun, L., Criado, M.F., Smith, D., Swayne, D.E., and Pantin-Jackwood, M.J. 2018. Pathobiology of Tennessee 2017 H7N9 low and high pathogenicity avian influenza viruses in commercial broiler breeders and specific pathogen free layer chickens. *Vet. Res*. 49:82.

Bowes, V.A., Ritchie, S.J., Byrne, S., Sojonky, K., Bidulka, J.J., and Robinson, J.H. (2004). Virus characterization, clinical presentation, and pathology associated with H7N3 avian influenza in British Columbia broiler breeder chickens in 2004. *Avian. Dis*. 48: 928-934.

Bunea, M., and Zarnescu, O. 2001. New current aspects on the immunohistochemical techniques. *J. Roum. Biotechnol. Lett*. 6: 177-206.

Capua, I., Mutinelli, F., Marangon, S., and Alexander, D.J. 2000. H7N1 Avian influenza in Italy (1999-2000) in intensively reared chickens and turkeys. *Avian. Pathol*. 29, 537-543.

Capua, I., Marangon, S., Pozza, M., Terrogino, C., and Cattoli, G. 2003. Avian Influenza in Italy 1997. *Avian. Dis*. 47: 839-843.

Capua, I., and Alexander, D.J. 2009. Ecology, Epidemiology, and Human Health, Implications of Avian Influenza Virus Infections, Avian Influenza and Newcastle Disease. *Springer*. Verlag, Italia.

Chamnanpood, C., Sanguansermsri, D., Pongcharoen, S., and Sanguansermsri, P. 2011. Detection of distribution of avian influenza H5N1 virus by immunohistochemistry, chromogenic in situ hybridization and real time PCR techniques in experimentally infected chickens. *Southeast Asian J. Trop. Med. Public. Health*. 42(2): 303-310.

Chatterjee, S., Malhotra, R., Varghese, F., Bukhari, A.B., and Patil, A. 2013. Quantitative Immunohistochemical Analysis Reveals Association between Sodium Iodide Symporter and Estrogen Receptor Expression in Breast Cancer. *PLOS. ONE*. 8.

Chaves, A.J., Busquets, N., Valle, R., Rivas, R., Vergara-alert, J., Dolz, R., and Ramis, A. 2011. Neuropathogenesis of a Highly Pathogenic Avian Influenza Virus (H7N1) in Experimentally Infected Chickens. *Vet. Res*. 42: 1-12.

Chen, Y., Liang, W., Yang, S., Wu, N., Gao, H., Sheng, J., Yao, H., Wo, J., Fang, Q., Cui, D., Li, Y., Yao, X., Zhang, Y., Wu, H., Zheng, S., Diao, H., Xia, S., Zhang, Y., Chan, K.H., Tsoi, H.W., Teng, J.L., Song, W., Wang, P., Lau, S.Y., Zheng, M., Chan, J.F., To, K.K., Chen, H., Li, L., and Yuen, K.Y. 2013. Human infections with the emerging avian influenza A H7N9 virus from wet market poultry: clinical analysis and characterisation of viral genome. *Lancet*. 381 (9881): 1916-25.

Costa, T., Chaves, A.J., Valle, R., Darji, A., Van Riel, D., Kuiken, T., Majo, N., and Ramis, A. 2012. Distribution patterns of influenza virus receptors and viral attachment patterns in the respiratory and intestinal tracts of seven avian species. *Vet. Res*. 43:28-40.

Cross, K.J., Wharton, S.A., Shekel, J.J., Wiley, D.C., and Steinhauer, D.A. 2001. Studies on Influenza Hemagglutinin Fusion Peptide Mutants Generated by Reverse Genetics. *EMBO. J*. 20: 4432-4442.

De Wit, J.J., Koch, G., Fabri, T.H.F., and Elbers, A.R.W. 2004. A cross-sectional serological survey of the Dutch commercial poultry population for the presence of low pathogenic avian virus infections. *Avian. Pathol*. 33: 565-570.

Dharmayanti, N.L.P.I., dan Bahri, S. 2013. Karakter Virus Influenza Subtipe H7 dan Mewaspadai Virus Influenza Novel H7N9. *WARTAZOA*. 23(3): 122-134.

Ditjennakkeswan. 2014. Manual Penyakit Unggas. Direktorat Kesehatan Hewan, Kementerian Pertanian. Indonesia.

Ekaningtias, M., Wuryastuti, H., dan Wasito, R. 2017. Pendekatan Diagnosis Avian Influenza Virus dan Newcastle Disease Virus pada Kasus Lapangan Ayam Petelur: Imunopatologis Streptavidin Biotin. *JSV*. Vol. 35, No. 1.

Ellis, T. M., Bousfield, R.B., Bissett, L.A., Dyrting, K.C., Luk, G.S., Tsim, S.T., Sturm-Ramirez, K., Webster, R.G., Guan, Y., and Malik Peiris, J.S. 2004. Investigation of Outbreaks of Highly Pathogenic H5N1 Avian Influenza in Waterfowl and Wild Birds in Hong Kong in Late 2002. *Avian. Pathol*. 33: 492–505.

Fatchiyah, Laras, E., Widyarti, S., dan Rahayu, S. 2011. *Biologi Molekuler: Prinsip Dasar Analitis*. Jakarta: Penerbit Erlangga. pp: 46-49.

Gao, R.M.D., Cao, B.M.D., and Hu, Y.M.D. 2013. Human infection with a novel avian-origin influenza A (H7N9) virus. *N. Engl. J. Med*. 368: 1888-1897.

Gao, R., Cao, B., Hu, Y., Feng, Z., Wang, D., Hu, W., Chen, J., Jie, Z., Qiu, H., Xu, K., Xu, X., Lu, H., Zhu, W., Gao, Z., Xiang, N., Shen, Y., He, Z., Gu, Y., Zhang, Z., Yang, Y., Zhao, X., Zhou, L., Li, X., Zou, S., Zhang, Y., Yang, L., Guo, J., Dong, J., Li, Q., Dong, L., Zhu, Y., Bai, T., Wang, S., Hao, P., Yang, W., Han, J., Yu, H., Li, D., Gao, G. F., Wu, G., Wang, Y., Yuan, Z. and Shu, Y. 2013. Human Infection with a Novel Avian-Origin Influenza A (H7N9) Virus. *N. Engl. J. Med*. 368: 1888-1897.

Gonzales, J.L., Elbers, A.R.W., Bouma, A., Koch, G., de Wit, J.J., and Stegeman, J.A. 2012. Transmission characteristics of low pathogenic avian influenza virus of H7N7 and H5N7 subtypes in layer chickens. *Vet. Microbiol*. 155: 207-213.

Greenacre, C.B., and Morishita, T.Y. 2015. *Backyard Poultry Medicine and Surgery: A Guide for Veterinary Practitioners*. Wiley Blackwell. United Kingdom.

Haragannavar, V.C., Patil, S.B., Rao, R.S., Nambiar, S.K., Augustine, D., and Sowmya, S.V. 2018. Troubleshooting in immunohistochemistry with their remedies. *World. J. Dentistry*. 9(4): 333-341.

Hay, A.J., Gregory, V., and Douglas, A.R. 2001. The evolution of human influenza viruses. *Philos. Trans. R. Soc. Lond. B*. 356:1861-1869.

Hewajuli, D.A., dan Dharmayanti, N.L.P.I. 2008. Karakterisasi dan Identifikasi Virus Avian Influenza (AI). *WARTAZOA*. 18(2): 86-100.

Horimoto, T., and Kawaoka, Y. 2001. Pandemic Threat Posed by Avian Influenza A Viruses. *Clin. Microbiol. Rev*. 14: 129-149.

Howarth, M., Chinnapen, D.J.F., Gerrow, K., Dorrestein, P.C., Grandy, M.R., Kelleher, N.L., Husseini, E., Ting, A., and Alice, Y. 2006. A Monovalen Streptavidin with a Single Fentomolar Biotin Binding Site. *Nat. Methods*. 3: 267–273.

Isnawati, R., Wuryastuti, H., dan Wasito, R. 2019. Peneguhan Diagnosis Avian Influenza pada Ayam Petelur yang Mengalami Gejala Penurunan Produksi. *JSV*. Vol. 37, No. 1.

Jones, J.C., Sonnberg, S., Kocer, Z.A., Shanmuganathan, K., Seiler, P., Shu, Y., Zhu, H., Guan, Y., Peiris, M., Webby, R.J., and Webster, R.G. 2014. Possible role of songbirds and parakeets in transmission of influenza A (H7N9) virus to humans. *Emerg. Infect. Dis*. 20(3): 380-5.

Kageyama, T., Fujisaki, S., Takashita, E., Xu, H., Yamada, S., Uchida, Y., Neumann, G., Saito, T., Kawaoka, Y., and Tashiro, M. 2013. Genetic analysis of novel avian A(H7N9) influenza viruses isolated from patients in China, February to April 2013. *Euro. Surveill*. 18:20453.

Kamps, B.S., Hoffman, C., and Preiser, W. 2006. *Influenza report 2006*. www.influenzareport.com. Paris, France: Flying Publisher.

Karlsson, H.G.B., Fouchier, R.A., Phogat, S., Burton, D.R., Sodroski, J., and Wyatt, R.T. 2008. The challenges of eliciting neutralizing antibodies to HIV-1 and to influenza virus. *Nat. Rev. Microbiol*. 6(2): 143-155.

Kimbal, W. 2008.Monoclonal Antibody.http://users.rcn.com/jkimball.ma.ultranet/biologypages/m/monoclonal.html. (Diakses tanggal 10 Desember 2020).

Kon, K., and Rai, M. 2016. *The Microbiology of Respiratory System Infections*. London, United Kingdom: Academic Press.

Krammer, F., and Palese, P. 2015. Advances in the development of the influenza virus vaccines. *Nat. Rev. Drug. Discov*. 14:167-182.

Ku, K.B., Park, E.H., Yum, J., Kim, H.M., Kang, Y.M., Kim, J.C., Kim, J.A., Kim, H.S., and Seo, S.H. 2014. Transmissibility of Novel H7N9 and H9N2 Avian Influenza Viruses between Chickens and Ferrets. *J. Virol*. 450- 451: 316-323.

Kwon, H.I., Song, M.S., Pascua, P.N., Baek, Y.H., Lee, J.H., Hong, S.P., Rho, J.B., Kim, J.K., Poo, H., Kim, C.J., and Choi, Y.K. 2011. Genetic characterization and pathogenecity assesment of highly pathogenic H5N1 avian influenza viruses isolated from migratory wild birds in 2011, South Korea. *Virus. Res*. 160: 305-315.

Lin, X., Wang, R., Zou, W., Sun, X., Liu, X., Zhou, L., Wang, S., and Jim, M. 2016. The influenza virus H5N1infection can induce ROS production for viral replication and host cell death in A549 cells modulated by human Cu/Zn superoxide dismutase (SOD1) overexpression. *Viruses*. 8(13).

Louten, J. 2017. *Essential Human Virology*. London: Academic Press.

Lu, J., Wu, J., Zeng, X., Guan, D., Zou, L., Yi, L., Liang, L., Ni, H., Kang, M., Zhang, X., Zhong, H., He, X., Monagin, C., Lin, J., and Ke, C. 2014. Continuing reassortment leads to the genetic diversity of influenza virus H7N9 in Guangdong, China. *J. Virol*. 88:8297-306.

MacLachlan, N.J., and Dubovi, E.J.. 2017. *Fenner's Veterinary Virology*. United Kingdom: Academic Press.

Mutinelli, F., Capua, I., Terregino, C., and Cattoli, G. 2003. Clinical, gross, and microscope findings in different avian species naturally infected during the H7N1 low- and high-pathogenicity avian influenza epidemics in Italy during 1999 and 2000. *Avian. Dis*. 47: 844-848.

Neufeld, J.L., Embury-Hyatt, C., Berhane, Y., Manning, L., Ganske, S., and Pasick, J. 2009. Pathology of highly pathogenic avian influenza virus (H5N1) infection in Canada geese (*Branta canadensis*): preliminary studies. *Vet. Pathol*. 46: 966-970.

[OIE] Office International Des Epizooties. 2004. *Manual of Diagnostic Test and Vaccines for Terrestrial Animal*. World Organization for Animal Health. 4:258-269.

Pantin-Jackwood, M.J., Miller, P.J., Spackman, E., Swayne, D.E., Susta, L., Costa-Hurtado, M., and Suarez, D.L. 2014. Role of poultry in the spread of novel H7N9 influenza virus in China. *J. Virol*. 88(10): 5381-90.

Payne, S. 2018. *Viruses: From Understanding to Investigation*. United Kingdom: Academic Press.

Perez, D.N., Lim, W., Seller, J.P., Yi, G., Peiris, M., Shortridge, K.F., and Webster, R.G. 2003. Role of quail in interspecies transmission of H9 influenza A viruses. Molecular changes on HA that correspond to adaptation from ducks to chickens. *J. Virol*. 7: 3148-3156.

Perkins, L.E., and Swayne, D.E. 2001. Pathobiology of A/chicken/HongKong/220/97 (H5N1) avian influenza virus in seven gallinaceous species. *Vet. Pathol*. 38: 149-164.

Qosimah, D., Murwani, S., dan Amalia, I. 2017. *Penyakit Viral pada Unggas*. Malang: Universitas Brawijaya Press.

Radulescu, R.T., and Boenisch, T. 2007. Blocking endogenous peroxidases: a cautionary note for immunohistochemistry. *J. Cell. Mol. Med*. 11(6): 1419.

Ramos, I., Bernal-Rubio, D., Durham, N., Belicha-Villanueva, A., Lowen, A.C., Steel, J., and Fernandez-Sesma, A. 2011. Effects of receptor binding specificity of avian influenza virus on the human innate immune response. *Virol. J*. 85(9): 4421-4431.

Ramos-vara, J.A., Markey, B.K., Dubovi, M.E., Donnelly, W.J.C., and Leonard, F.C.. 2002. *Veterinary Microbiology and Microbial Disease*. Iowa: Blackwell Science. pp: 283-289, 308, 381-387.

Rebel, J.M.J., Peeters, B., Fijten, H., Post, J., Cornelissen, J., and Vervelde, L. 2011. Highly pathogenic or low pathogenic avian influenza virus subtype H7N1 infection in chicken lungs: small differences in general acute responses. *Vet. Res*. 42:10.

Rimmelzwaan, G.F., Boon, A.C., and Voeten, J.T. 2004. Sequence variation in the influenza A virus nucleoprotein associated with escape from cytotoxic T lymphocytes. *Virus. Res*. 103:97-100.

Rowe, T., Abernathy, R.A, Hu-Primmer, J., Thompson, W.W, Lu, X., and Lim, W. 1999. Detection of antibody to Avian Influenza A (H5N1) virus in human serum by using a combination of serological assays. *J. Clin. Microbiol*. 37(4): 937-43

Ryu, W.S. 2017. *Molecular Virology of Human Pathogenic Viruses*. London, United Kingdom: Academic Press.

Sattyananda, D. 2018. *Perkembangan Avian Influenza di Indonesia* (Internet). Poultry Indonesia. <https://poultryindonesia.com/perkembangan-avian-influenza-di-indonesia/>. (Diakses 21 Agustus 2020).

So, K.W., Roh, J., and Chan, P.S. 2016. Immunohistochemistry for Pathologists: Protocols, Pitfalls, and Tips. *J. Pathol. Translat. Med*. 50: 411-418.

Spackman, E., Pantin-Jackwood, M., Swayne, D.E., Suarez, D.L., and Kapczynski, D.R. 2015. Impact of route of exposure and challenge dose on the pathogenesis of H7N9 low pathogenicity avian influenza virus in chickens. *Virol*. 477: 72-81.

Spickler, A.R., Trampel, D.W., and Roth, J.A. 2008. The onset of virus shedding and clinical signs in chicken infected with high-pathogenicity and low-pathogenicity avian influenza viruses. *Avian. Pathol*. 37: 555-577.

Stevens, J., Blixt, O., Tumpey, T.M., Taubenberger, J.K., Paulson, J.C., and Wilson, I.A. 2006. Structure and receptor specificity of the hemagglutinin from an H5N1 influenza virus. *Science*. 312(5772): 404-410.

Suarez, D.L. 2008. *Influenza A Virus, In: Swayne, D.E. (editor)*. Avian Influenza. Ames (IA): Blackwell Publishing. pp: 3-22.

Sudiana, I.K. 2005. *Teknologi Ilmu Jaringan dan Imunohistokimia*. Jakarta: Sagung Seto. pp: 36-50.

Susiani, R.D., Wasito, R., and Wuryastuti, H. 2019. The effect of water additive commercial (KimchiStoc®) on natural avian influenza virus infection of broiler chickens: pathological and immunopathological approach. *East. African. Scholars. J. Agri. Life. Sci*. Vol.2, Iss. 3: 155-162.

Swayne, D.E., Suarez, D.L., and Sims, L.D. 2013. *Diseases of Poultry, 13th Edition*. Ames, IA, United States: Wiley-Blackwell. pp. 181-218.

Swayne, D.E., and Pantin-Jackwood, M. 2006. Pathogenicity of avian influenza viruses in poultry. *Dev. Biol*. 124: 61-67.

Swayne, D.E., and Pantin-Jackwood, M. 2008. *Pathobiology of Avian Influenza Virus Infection in Birds and Mammals in Avian Influenza*. Iowa: Blackwell Publishing. 87-88.

Swayne, D.E., and Halvorson, D.A. 2008. *Influenza. In Disease of Poultry. 12th Ed*. Iowa, Ames: Blackwell Publishing. 153-184.

Taylor, C.R., and Levenson, R.M. 2006. Quantification of immunohistochemistry: issues concerning methods, utility, and semiquantitative assesment II. *Histopathol*. 49: 411-24.

Trobos. 2021. *Virus AI dan Patogenesitasnya pada Layer* (Internet). Trobos Trobos Livestock Media Agribisnis Peternakan. <http://troboslivestock.com/detail-berita/2021/03/02/55/14105/virus-ai-dan-patogenisitasnya-pada-layer>. (Diakses pada tanggal 12 Juni 2021).

Tuominen, V.J., Ruotoistenmäki, S., Viitanen, A., Jumppanen, M., and Isola, J. 2010. ImmunoRatio: a publicly available web application for quantitative image analysis of estrogen receptor (ER), progesterone receptor (PR), and Ki-67. *Breast. Cancer. Res*. 12:R56. DOI: 10.1186/bcr2615.

Tu, C., Fu, L., Tang, R., He, T., Chen, J., Fang, Y., Wang, J., and Huang, Z. 2014. The first case of avian influenza A (H7N9) virus occuring in the autumn season, China. *Am. J. Infect. Control*. 42:212-213.

[USDA] United States Department of Agriculture. 2015. Fact Sheet: Avian Influenza Testing and Diagnostics. Office of Communications, Washington.

Uyeki, T. M., and Cox, N. J. 2013. Global Concerns Regarding Novel Influenza A (H7N9) Virus Infections. *N. Engl. J. Med*. 368(20):1862-1864.

Virgin, S. 2007. *Pathogenesis of Viral Infection*. In Fields Virology, Knipe, D.M., Howley, P.M., Griffin, D.E., et al. (eds). Volume 1. 5th ed. Lippincott Williams & Wilkins: Philadelphia, Pennsylvania. pp: 327–388.

Wakamatsu, N., King, D.J., Seal, B.S., and Brown, C.C. 2007. Detection of Newcastle Disease Virus RNA by Reverse Transcription-Polymerase Chain Reaction Using Formalin-Fixed, Paraffin-Embedded Tissue and Comparison with Immunohistochemistry and In Situ Hybridization. *J. Vet. Diagn. Invest*. 19: 396-400.

Wanaratana, S., Panyim, S., and Pakpinyo, S. 2011. The potential of house flies to act as a vector of avian influenza subtypes H5N1 under experimental conditions. *Med. Vet. Entomol*. 25(1): 58-63.

Wang, D., Yang, L., and Gao, R. 2014. Genetic tuning on the novel avian influenza A (H7N9) virus during interspecies transmission, China. *Euro. Surveill*. 19(25):pii 20836.

Wang, J.Y., Li, C.S., Chen, T., Wang, L.Q., Dong, R., and Zhang, W.D. 2013. Study on pathogenic of H9N2 subtype avian influenza virus for oviduct of hens. *Chinese. J. Vet. Sci*. 33(4): 500-503.

Wang, J., Tang, C., Wang, Q., Li, R., Chen, Z., Han, X., Wang, J., and Xu, X. 2015. Apoptosis induction and release of inflammatory cytokines in the oviduct of egg-laying hens experimentally infected with H9N2 avian influenza virus. *Vet. Microbiol*. 177: 302-314.

Wanke, and Levy, R. 1980. Detection of T and B cell antigen with hybridoma monoclonal antibodies: Biotin avidin horseradish peroxidase method. *J. Histochem. Cytochem*. 28: 771.

Wasito, R., Wuryastuti, H., dan Sutrisno, B. 2013. Identifikasi Koi Herpesvirus dengan Uji Imunopatologi Imunohistokimia Streptavidin Biotin pada Ikan Mas Karier. *J. Vet*. 14: 37-44.

Wasito, R., dan Wuryastuti, H. 2014. Antibodi dan Imunohistokimia. Yogyakarta: Penerbit Andi.

Wasito, R., Wuryastuti, H., Tjahyowati, G., Irianingsih, S.H., Tyasasmaya, T., and Maes, R.K. 2014. Detection and Differentiation of Pathogenic H5 and H7 Influenza A Virus Subtypes in Indonesian Poultry by Multiplex Reverse Transcription-Polymerase Chain Reaction. *Biochem. Biotech. Res*. 2(2): 27-31.

Wasito, R., Wuryastuti, dan H., Sutrisno, B. 2017. Pengembangan dan Aplikasi Double Staining: Diagnosis Dini, Cepat dan Akurat Infeksi Campuran Kasus Lapangan Avian Influenza Virus dan Newcastle Disease Virus pada Unggas. Laporan Akhir. Kegiatan Penelitian Unggulan Perguruan Tinggi. Lembaga Penelitian dan Pengabdian Masyarakat, Unversitas Gadjah Mada, Yogyakarta, Indonesia.

Webster, R.G., and Laver, W.G.. 1980. Determination of the number of nonoverlapping antigenic areas on Hongkong (H3N2) influenza virus hemagglutinin with monoclonal antibodies and the selection of variants with potential epidemiological significance. *Virol*. 104:139-148.

Whittaker, G., Bui, M., and Helenius, A. 1996. The Role of Nuclear Import and Export in Influenza Virus Infection. *Trends. Cell. Biol*. 6: 67-71.

[WHO] World Health Organization. 2015. WHO Recommendations on the Use of Rapid Testing for Influenza Diagnosis.

Wibawa, H. 2013. Epidemiologi, Filogeni dan Resiko Penularan Antar Spesies Virus *Avian Influenza* Baru Subtipe H7N9. *Buletin Laboratorium Veteriner* Balai Besar Veteriner Wates Jogjakarta. 113(2): 1-16.

Wilson, I.A., and Cox, N.J. 1990. Structural basis of immune recognition of influenza virus hemagglutinin. *Annu. Rev. Immunol*. 8:737-771.

Wirata, I.K., Dinar, H.W.H., dan Fiki, I.K. 2013. Gambaran Patologi Anatomi dan Histopatologi pada Kasus Kematian itik di Bali yang teridentifikasi disebabkan oleh Virus Avian Influenza (H5N1) clade 2.3.2. *Buletin Veteriner Denpasar*. 25:1-11.

Wuryastuty, H., dan Wasito, R. 2012. Avian Influenza (H5N1) Bentuk Pernafasan Pada Entok (*Cairina moschata*) Sehat di Yogyakarta. *JSV*. ISSN 0126-0421.

Wuryastuty, H., and Wasito, R. 2013. Molecular identification of avian influenza A virus in house flies (*Musca domestica* Linn.) collected from different poultry farms in Indonesia. *JSV*. 31(1): 1-7.

Xu, X., Cox, N.J., and Bender, C.A. 1996. Genetic variation in the neuraminidase genes of influenza A (H3N2) viruses. *Virol*. 224:175-183.

Yunita, N., Wulan, O.H., Wuryastuty, H., dan Wasito, R. 2017. Penentuan Secara Imunopatologi Organ Target Virus Flu Burung Menggunakan Streptavidin Biotin. *J. Vet*. 18(4): 487-495.

Zander, D.W. 1983. *Principles of Disease Prevention: Diagnosis and Control. Disease of Poultry. 7th Ed*. Iowa State University Press. Ames, Iowa, USA.

Zulfikhar, Wasito, R., and Wuryastuti, H. 2019. Immunopathological immunohistochemical study of low pathogenic avian influenza virus H5N1 infection in love birds (*Agapornis* spp.) in Indonesia. *Vet. World*. 12(9): 14722-1477.