

DAFTAR PUSTAKA

- Artois, M., Depner, K.R., Guberti, V. Hars, J., Rossi, S., and Rutili, D., 2002, *Classical Swine Fever (hog cholera) in wildboar in Europe*. Rev. Sci. Tech. 21, 287–303.
- Armengol, E., Wiesmuller, K. H., Wienhold, D., Buttner, M., Pfaff, E., Jung, G., and Saalmuller, A., 2002, *Identification of T-cell epitopes in the structural and non-structural proteins of Classical Swine Fever virus*. Journal of General Virology, 83, 551–560.
- An, T.Q., Peng, J.M., Tian, Z.J., Zhao, H.Y., Li, N., Liu, Y.M., Chen, J.Z., Leng, C.L., Sun, Y., Chang D., 2013, *Pseudorabies virus variant in Bartha-K 61-vaccinated pigs, China 2012*. Emerg. Infect. Dis., 19, 1749–175.
- Annonimus, 2017, *Laporan Tindak Lanjut Kasus Classical Swine Fever di Kabupaten Karanganyar*, BBVet Wates.
- Annonimus, 2018, *Laporan kegiatan Monitoring penyakit Classical Swine Fever pada hewan vaksinasi dan Non vaksinasi di propinsi Jawa tengah dan Jawa timur*, BBVet Wates.
- [Anonimus, 2000, Statistix 7 User's Manual Analytical software, PO Box 12185, Tallahassee FL. WWW.statistix.com.](#)
- Afshar, A., Dulac, G.C., Dubuc, C., Howard, T.H., 1991, *Comparative evaluation of the fluorescent antibody test and micro titer immunoperoxidase assay for detection of bovine viral diarrhea virus from bull semen*. Can. J. Vet. Res., 55, 91–93.
- Armstrong, S.F., Clark, L.K., 1999, Biosecurity considerations for pork production units. Swine Health Prod. 7 (5), 217–228.
- Alexander, D.J., 2000, Newcastle disease and other avian paramyxoviruses. Rev Sci Tech; 19(2):443–62.
- Ariana, I N. T. 2011, Pengaruh Model Lantai Kandang dan Jenis Kelamin terhadap Penampilan Produksi Anak Babi Lepas Sapih. Majalah Ilmiah Peternakan Vol 14 (1), 33-35.
- Adji, R.S., 2009, Perbandingan Gambaran Titer Antibodi Pasca Vaksinasi dengan Menggunakan 2 Produk Vaksin Dalam Negeri. Prosiding Seminar

Nasional Teknologi Peternakan dan Veteriner Bogor. Pusat Penelitian dan pengembangan Peternakan Departemen Pertanian

Anderson, R.M. and May R.M., 1985, Vaccination and herd immunity to infectious diseases. *Nature*; 318:323–9.

Azwar, A., 1999, Pengantar Epidemiologi. Binarupa Aksara: Jakarta

Bauhofer, O., Summerfield, A., Mc Cullough, K.C., and Ruggli, N., 2005, *Role of double-stranded RNA and Nproof Classical Swine Fever virus in the activation of monocyte-derived dendritic cells*. *Virology*, 343, 93–105.

Bautista, M.J.; Ruiz-Villamor, E., Salguero, F.J., Sanchez-Cordon, P.J., Carrasco, L., and Gomez-Villamandos, J.C., 2002, *Early platelet aggregation as a cause of thrombocytopenia in classical swine fever*. *Vet. Pathol* 39 : 84–9.

Barman, N.N., Bora, D.P., Khatoon, E., Mandal, S., Rakshit, A., Rajbongshi, G., Depner, K., Chakraborty, A., and Kumar, S., 2014, *Classical Swine Fever in wild hog: Report of its prevalence in northeast India*. *Transbound. Emerg. Dis* 63: 540–547.

Björklund, H.; Lowings, P., Stadejek, T., Vilcek, S. Greiser-Wilke, I., Paton, D., and Belak, S., 1999, *Phylogenetic comparison and molecular epidemiology of Classical Swine Fever virus*. *Virus Genes* 19: 189–195.

Botner, A., and Belsham, G.J., 2012, *Virus survival in slurry: Analysis of the stability of foot and mouth disease, classical swine fever, bovine viral diarrhoea and swine influenza viruses*. *Vet. Microbiol* 157: 41–49.

Blome, S., Moß, C., Reimann, I., König, P., and Beer M., 2017, *Classical Swine Fever vaccines—State-of-the-art* *Veterinary Microbiology* 206 : 10–20

Blome, S., Grotha, I., Moennig, V., and Greiser-Wilke I., 2010, *Classical Swine Fever virus in South - Eastern Europe—Retrospective analysis of the disease situation and molecular epidemiology*. *Vet. Microbiol* 146 : 276–284.

Becher, P., Avalos R., Orlich, M., Cedillo, R.S., Konig, M., Schweizer, M., and Thiel, H. J., 2003, *Genetic and antigenic characterization of novel pestivirus genotypes: Implications for classification*. *Virology* 311: 96–104.

Bensaude, E.; Turner, J.L., Wakeley, P.R., Sweetman, D.A., Pardieu, C., Drew, T.W., Wileman, T., and Powell, P.P., 2004, *Classical Swine Fever virus induces proinflammatory cytokines and tissue factor expression and inhibits apoptosis and interferon synthesis during the establishment of*

long-term infection of porcine vascular endothelial cells. J. Gen. Virol
85: 1029–1037.

Breedt, H., 2005, *Manual on Housing for Pigs*. Pretoria: Institute for Agricultural Engineering : 7-13 , 47-68.

Barcelo, M., and Marco, E., 1998, On Farm Biosecurity, International Pig Veterinary Society Proceedings. 1998.

Bulu, P.M., Rumlaklak, Y.Y., Hau, E.E.R., dan Jacob, J.M., 2013, Level penerapan biosekuriti pada peternakan babi skala besar di desa Noelbaki, kecamatan Kupang Tengah Kabupaten Kupang. *Partner* 20 (1) :11-19.

Bulu, P.M., 2011, The Epidemiology of Classical Swine Fever in West Timor Indonesia. Thesis, Murdoch University Western Australia.

Bustan, M.N., 2006, Pengantar Epidemiologi. Rineka Cipta: Jakarta.

Budaarsa, K., Puger, A.W., dan Suasta, I.M., 2016. Eksplorasi komposisi pakan babi tradisional babi bali. *Majalah Ilmiah Peternakan*.19.(1), 6-11.

Brown, V.R., and Bevins, S.N., 2018, A Review of Classical Swine Fever virus and Routes of introduction into the United States and the Potential for virus establishment, *Frontier in Veterinary Science*, 5: 31.

Baratawidjaja, dan Karnen, G., 2006, *Imunologi Dasar Edisi Ke Tujuh*. Jakarta: Balai Penerbit Fakultas Kedokteran FKUI.

Blome, S., Wernike, K., Reimann, I., König, P., Moß, C. and Beer, M., 2017, A decade of research into classical swine fever marker vaccine CP7_E2alf (Suvaxyn CSF Marker): a review of vaccine properties, *Vet Res* 48:5.

Bulu, P.M., Robertson, I.D., and Geong, M., 2020, Analyzing risk factors for herd seropositivity to classical swine fever in West Timor Indonesia, *Research in Veterinary Science* 131 (2020) 43–50.

Boumaa, A., De Smit, A.J., De Jong, M.C.M., De Kluijver, E.P., and Moormanna R.J.M., 2000, Determination of the onset of the herd-immunity induced by the E2 sub-unit vaccine against classical swine fever virus, *Vaccine* 18 : 1374-1381.

Buhman, M., Dewell, and Griffin D., 2007, Biosecurity basics for cattle operations and good management practices (GMP) for controlling infectious diseases. The Board of Regents of the University of Nebraska on behalf of the University of Nebraska-Lincoln Extension.

- Cuéllar, A.C., 2014, *Spatial analysis applied to Epidemiology Seminar final report*.
- Carrasco, C.P., Rigden, R.C., Vincent, I.E., Balmelli, C., Ceppi, M., Bauhofer, O., Tache, V., Hjertner, B., McNeilly, F., and van Gennip, H.G., 2004, *Interaction of classical swine fever virus with dendritic cells*. J. Gen. Virol 85: 1633–164.
- Cha, S.H., Choi, E.J., Park, J.H., Yoon, S.R., Kwon, J.H., Yoon, K.J., and Song, J.Y. 2007, Phylogenetic characterization of *Classical Swine Fever* viruses isolated in Korea between 1988 and 2003. *Virus Res.* 126: 256–261.
- Crauwels, A.P.P., Nielen, M., Stegeman J.A., Elbers, A.R.W., Dijkhuizen, A.A., and Tielen, M.J.M., 1999, *The effectiveness of routine serological surveillance: case study of the 1997 epidemic of Classical Swine Fever in the Netherlands*. *Rev sci tech off int epizoot.* 18: 627–637.
- Cabezón, O., Colom-Cadena, A., Muñoz-González, S., Pérez-Simo, M., Bohórquez, J.A., Rosell, R., Marco, I., Domingo, M., Lavin, S., and Ganges, L., 2017, *Post-natal persistent infection with Classical Swine Fever virus in wildboar: A strategy for viral maintenance* *Transbound. Emerg. Dis.* 64: 651–655.
- Chen, N., Hu, H., Zhang, Z., Shuai, J., Jiang, L., and Fang, W., 2008, *Genetic diversity of the envelope glycoprotein E2 of Classical Swine Fever virus: Recent isolates branched away from historical and vaccine strains*. *Vet. Microbiol* 127: 286–299.
- Coronado, L., Bohórquez, J.A., Muñoz-González, S., Pérez, L.J., Fonseca, O., Delgado, L., Perera, C.L., Frías, M.T., Rosell, R., and Ganges, L., 2019, Investigation of chronic and persistent classical swine fever infections under field conditions and their impact on vaccine efficacy, *BMC Veterinary Research* 15:247.
- Christie, B.M., 2007, A review of animal health research opportunities in Nusa Tenggara Timur and Nusa Tenggara Barat Provinces, eastern Indonesia, Vol 65. ACIAR Technical Reports, Australian Centre for International Agricultural Research, Canberra, Australia.
- Departemen of Agriculture, Fisheries and Forestry (DAFF)., 2008, *Classical Swine Fever*. Departemen of Agriculture, Fisheries and Forestry. Australia. <http://www.daff.gov.au/animalplant-health/pests-diseasesweeds/> animal/swine-fever. Tanggal Akses 14 Juni 2019.

- De Smit, A.J., Terpstra, C., and Wensvoort, G., 1994, *Comparison of virus isolation methods from whole blood or blood components for early diagnosis of CSF*. Report on Meeting of the EU National Swine Fever Laboratories, Brussels, Nov 24–25, 1994: 22–24.
- David, D., Edri, N., Yakobson, B.A.; Bombarov, V., King, R., Davidson, I., Pozzi, P.; Hadani, Y., Bellaiche, M., and Schmeiser, S., 2011, *Emergence of Classical Swine Fever virus in Israel in 2009*. Vet. J. 190: 46–49.
- Depner, K., Bauer, T., and Liess, B., 1992, *Thermal and pH stability of pestiviruses*. Rev. Sci. Tech. 11: 885–893.
- Dunne, H.W., 1970, *Hog Cholera*, 3rd ed., Dunne, H.W., Ed., The Iowa State University Press: Ames, I.A, U.S.A, Vol. *Diseases of Swine*; pp. 177–239.
- Direktorat Jenderal Peternakan dan Kesehatan Hewan, 2018, Laporan ISHIKNAS Situasi kasus CSF di wilayah Indonesia Tahun 2018, di update febuari 2019. <http://keswan.ditjenpkh.pertanian.go.id/>
- Dohoo, I., Martin, W., and Stryhn, H., 2010, *Veterinary epidemiologic research*. 2nd^{ed}. Charlottetown: AVC Inc.
- Donis, R.O., 1995, Molecular biology of bovine viral diarrhea virus and its interactions with the host. Vet. Clin. N. Am. Food Anim. Pract. 11: 393–423.
- Delamater, P.L., Street, E.J., Leslie, T.F., Yang, Y.T., and Jacobsen, K.H., 2019, Complexity of the Basic Reproduction Number (R_0), Emerging Infectious Diseases. 25 (1); 1–4.
- Direksin, K., Chatchawancholtheera, A., and Pachariyanon, S., 2016, Serologic Profiles of Classical Swine Fever Vaccinated Backyard Pig Farms inKhon Kaen Province, Thailand. Journal of Animal Research: v.6 (4), 559-562.
- Depner, K.R., Bouma, A., Koenen, F., Klinnenberg, D., Lange, E., Smit, H., and Vanderhallen, H., 2001, Classical Swine Fever (CSF) Marker vaccine Trial II, Challenge study in pregnan sows, Veterinary Microbiology 83 (2001) : 107-120.
- Diekmann, O., Heesterbeek, J.A.P., and Metz, J.A.J., 1990, On the definition and the computation of the basic reproduction ratio R_0 in models for infectious diseases in heterogeneous populations .J.Math Biol; 28 : 365 – 82.

- Elbers, A. R., Moser, H., Ekker, H. M., Crauwels, P. A., Stegeman, J. A., Smak, J. A., and Pluimers, F. H., 2001, *Tracing systems used during the epidemic of Classical Swine Fever in the Netherlands, 1997-1998*. Revue Scientifique et Technique, 20 : 614–629.
- Encarnacao, J.C., Barta, P., Fornstedt, T., and Andersson, K., 2017, Impact of assay temperature on antibody binding characteristics in living cells: A case study, Biomedical report 7: 400-406.
- Edwards, S., 2000, *Survival and inactivation of Classical Swine Fever virus*. Vet. Microbiol. 73: 175–181.
- Elbers, A.R.W., Stegeman, J.A., and De Jong, M.C.M., 2001, Factors Associated with The Introduction of Classical Swine Fever Virus Into PigHerds in TheCentral Area of the 1997/98 Epidemic in the Netherlands. The Veterinary Record 149 (13): 377.
- Einarsson, S., Brandt, Y., Lundeheim, N., and Madej, A., 2008, Review Stress and its influence on reproduction in pigs, Acta Veterinaria Scandinavica , 50:48 doi:10.1186/1751-0147-50-48.
- Farez, S., and Morley, R.S., 1997, *Potential animal health hazards of pork and pork products*. Rev. Sci. Tech., 16 : 65–78.
- Fahnoe, U., Pedersen, A.G., Risager, P.C., Nielsen, J., Belsham, G.J., Höper, D.; Beer, M., and Rasmussen, T.B., 2014, Rescue of the highly virulent Classical Swine Fever virus strain “Koslov” from cloned cDNA and first insights into genome variations relevant for virulence. Virology 468–470, 379–38.
- Fiebach, A.R., Guzylack-Piriou, L., Python, S., Summerfield, A., Ruggli, N., 2011, *Classical Swine Fever virus N_{pro} limits type I interferon induction in plasmacytoid dendritic cells by interacting with interferon regulatory factor 7*. J. Virol. 85 : 8002–8011.
- Frey, H.R., Liess, B., Richter-Reichhelm, H.B., von Benten, K., and Trautwein, G., 1980, *Experimental transplacental transmission of hog cholera virus in pigs*. I. Virological and serological studies. Zentralbl. Veterinarmed. B, 27: 154–164.
- Fritzemeier, J., Teuffert, J., Greiser-Wilke, I., Staubach, C., Schluter, H., and Moennig, V., 2000, *Epidemiology of Classical Swine Fever in Germany in the 1990s*. Veterinary Microbiology 77 : 29–41.

- Fotheringham, V.J.C., 1995, Disinfection of livestock production premises, *Rev. sci. tech. Off. int. Epiz.*, 14 (1), 191-205.
- Gale, P., 2004, *Risks to farm animals from pathogens in composted catering waste containing meat*. *Vet. Rec.*, 155: 77–8
- Ganges, L., Barrera, M., Nunez, J.I., Blanco, I., Frias, M.T., Rodriguez, F., and Sobrino, F. A., 2005, *DNA vaccine expressing the E2 protein of Classical Swine Fever virus elicits T cell responses that can prime for rapid antibody production and confer total protection upon viral challenge*. *Vaccine* 23: 3741–3752.
- Greiser-Wilke, I., Dreier, S., Haas, L., and Zimmermann, B., 2006, *Genetic typing of Classical Swine Fever viruses*, A review *Dtsch. Tierarztl. Wochenschr.* 113: 134–138.
- Goller, K.V., Gabriel, C., Dimna, M.L., Potier, M.F., Rossi, S., Staubach, C., Merboth, M., Beer, M., and Blome, S., 2016, *Evolution and molecular epidemiology of Classical Swine Fever virus during a multi-annual outbreak amongst european wild boar*. *J. Gen. Virol* 97: 639–645.
- Gomez-Villamandos, J.C., Carrasco, L., Bautista, M.J., Sierra, M.A., Quezada, M.; Hervas, J., Chacon Mde, L., Ruiz-Villamor, E., Salguero, F.J., and Sanchez-Cordon, P.J., 2003, *African swine fever and Classical Swine Fever : A review of the pathogenesis*. *Dtsch. Tierarztl. Wochenschr* 110 : 165–169.
- Gomez-Villamandos, J.C., Ruiz-Villamor, E., Bautista, M.J., Quezada, M., Sanchez, C.P., Salguero, F.J., and Sierra, M.A., 2000, *Pathogenesis of Classical Swine Fever :Renal haemorrhages and erythrodiapedesis*. *J. Comp. Pathol.*, 123, 47–54.
- Gong, Y., Trowbridge, R., Macnaughton, T.B., Westaway, E.G., Shannon, A.D., and Gowans, E.J., 1996, Characterization of RNA synthesis during a one-step growth curve and of the replication mechanism of bovine viral diarrhoea virus. *J. Gen. Virol.* 77: 2729–2736.
- Gray, E.W., and Nettleton P.F., 1987, *The ultra structure of cell cultures infected with border disease and bovine virus diarrhoea viruses*. *J. Gen. Virol.* 68: 2339–2346.
- Graham, S.P., Haines, F.J., Johns, H.L., Sosan, O., La Rocca, S.A., Lamp, B., Rümenapf, T., Everett, H.E., and Crooke, H.R., 2012, *Characterisation of vaccine-induced, broadly cross-reactive IFN- γ secreting T cell responses that correlate with rapid protection against Classical Swine Fever virus*. *Vaccine* 30: 2742–2748.

- Greiser-Wilke, I., Fritzemeier, J., Koenen, F., Vanderhallen, H., Rutili, D., De Mia, G.M., Romero, L., Rosell, R., Sanchez-Vizcaino, J.M., and San Gabriel, A. 2000, *Molecular epidemiology of a large Classical Swine Fever epidemic in the European Union in 1997–1998*. Vet. Microbiol. 77: 17–27.
- Graham, P., and Barugh, I., 2013, *Small Scale Pig Farming: Practices and Obligation Massey*: Massey University 8-11
- Gulenkin, V.M., Korennoy, F.I., Karaulov, A.K., and Dudnikov, S.A., 2011, Cartographical analysis of African swine fever outbreaks in the territory of the Russian Federation and computer modeling of the basic reproduction ratio. Prev Vet Med 102: 167–174.
- Gabriel, C., Blome, S., Urniza, A., Juanola, S., Koenenc, F., and Beer, M., 2012, Towards licensing of CP7 E2alf as marker vaccine against classical swine fever - Duration of immunity, Vaccine 30 : 2928–2936.
- Gimsa, U., Tuchscherer, M., and Kanitz, E., 2018, Psychosocial Stress and Immunity—What Can We Learn From Pig Studies Front. Behav. Neurosci. 12:64. doi: 10.3389/fnbeh.2018.00064.
- Greinera, M., and Gardner I.A., 2000, Epidemiologic issues in the validation of veterinary diagnostic tests, Preventive Veterinary Medicine 45: 3-22
- Harding, M.J., Isabelle, P., Carlos, M.G., Robert, A.H., José, R., Richard, M., Gilles, C.D., and Soopayah, V., 1996, *Evaluation of nucleic acid amplification methods for the detection of hog cholera virus*. J Vet Diagn Invest 8: 414-419.
- Hastutiek, P., dan Fitri, L.E., 2007, *Potensi Musca domestica Linn. Sebagai Vektor Beberapa Penyakit*. Jurnal Kedokteran Brawijaya, Vol. XXIII, No. 3.
- Hoffmann, R., Hoffmann-Fezer, G., Kimeto, B., and Weiss, E., 1971, *Microthrombi as morphological evidence of consumption coagulopathy in acute hog cholera*. Zentralbl. Veterinarmed. 18 : 710–718.
- Hermanns, W., Trautwein, G., Meyer, H., and Liess, B., 1981, *Experimental transplacental transmission of hog cholera virus in pigs*. V. Immunopathological findings in new born pigs. Zentralbl. Veterinarmed. B, 28: 669–683

- Hulst, M.M., Westra, D.F., Wensvoort, G., and Moormann, R.J., 1993, *Glycoprotein E1 of hog cholera virus expressed in insect cells protects swine from hog cholera*. J. Virol 67: 5435–5442.
- Hulst, M.M., van Gennip, H.G., and Moormann, R.J., 2000, *Passage of Classical Swine Fever virus in cultured swine kidney cells selects virus variants that bind to heparan sulfate due to a single amino acid change in envelope protein E^{1ns}*. J. Virol 74: 9553–9561.
- Hulst, M.M., van Gennip, H.G., Vlot, A.C., Schooten, E., de Smit, A.J., and Moormann, R.J., 2001, *Interaction of Classical Swine Fever virus with membrane-associated heparan sulfate: Role for virus replication in vivo and virulence*. J. Virol. 75: 9585–9595.
- Heene, D., Hoffmann-Fezer, G., Müller-Berghaus, G., Hoffmann, R., Weiss E., and Lasch H.G., 1971, *Coagulation disorders in acute hog cholera*. Beitr. Pathol. 144 : 259–271.
- Hanson, C. M., George, A. M., Sawadogo, A., and Schreiber, B., 2017, Is freezing in the vaccine cold chain an ongoing issue a literature review. Vaccine, 35(17), 2127– 2133.
- Hutabarat, T.N., Widiastuti, M.D.W., Darmawan R., dan Arief R.A., 2015, Roadmap pengendalian dan penanggulangan Hog Cholera, Direktorat Kesehatan Hewan, Direktorat Jenderal Peternakan dan Kesehatan Hewan. Ed 1, 1-100.
- Handrawati, F., Mutisari, D., dan Ratna., 2019, Surveilans Deteksi Antigenik Classical Swine Fever berbasis risiko : Dinamika Tingkat Aras dan Faktor faktor risiko dalam Penularan pada Babi di Provinsi Sulawesi Utara, Balai Besar Veteriner Maros, Buletin Diagnosa Veteriner Vol. 18, No. 1.
- Hosmer, D.W., and Lemeshow, S., 2000, Applied Logistic Regression. John Wiley and Sons, Inc., New York.
- Hartini, R., 2018, Laporan Kegiatan Pemberantasan *Classical Swine Fever* (CSF) Di wilayah kerja Balai Veteriner Bukittinggi tahun 2018.
- Hanifah, M.D., 2014, Dampak Aktifitas Peternakan Babi Terhadap Pencemaran Lingkungan Di Dusun Meijing Wetan Kecamatan Gamping Sleman Yogyakarta .pdf . <https://www.researchgate.net>
- Heffernan, J.M, Smith, R.J, and Wahl, L.M., 2005, Perspectives on the basic reproductive ratio. J R Soc Interface;2:281–93.

- Haas, B., Ahl, R., Böhm, R., and Strauch, D., 1999, *Inactivation of viruses in liquid manure*. Rev. Sci. Tech. 14 : 435–44.
- Hutabarat, T., and Santhia, K., 1999, *The distribution and control strategies of Classical Swine Fever in Indonesia. Classical Swine Fever and Emerging Diseases in Southeast Asia*, ACIAR Proceedings 94.
- Ishikawa, K., Nagai, H., Katayama, K., Tsutsui, M., Tanabayashi, K., Takeuchi K., Hishiyama, M., Saitoh, A., Takagi, M., and Gotoh, K., 1995, *Comparison of the entire nucleotide and deduced amino acid sequences of the attenuated hog cholera vaccine strain GPE and the wild-type parental strain ALD*. Arch. Virol 140 : 1385–139.
- Iqbal, M., Flick-Smith, H., McCauley, J.W., 2000, *Interactions of bovine viral diarrhoea virus glycoprotein E^{rns} with cell surface glycosaminoglycans*. J. Gen. Virol. 81: 451–459.
- Jamin, A., Gorin, S., Cariolet, R., Le Potier, M.F., and Kuntz-Simon, G., 2008, *Classical Swine Fever virus induces activation of plasmacytoid and conventional dendritic cells in tonsil, blood, and spleen of infected pigs*. Vet. Res. 39, 7.
- Jiang, D.L., Liu, G.H., Gong, W.J., Li, R.C., Hu, Y.F., Tu, C., and Yu, X.L., 2013, *Complete genome sequences of Classical Swine Fever virus isolates belonging to a new subgenotype, 2.1c, from Hunan province, China*. Genome Announc., 28, e00080.
- Janeway, Jr., C.A., Travers, P., Walport, M., Capra, J.D., 1999, *Host Defense against Infection, Immunobiology: The Immune System in Health and Disease*. Elsevier Science Ltd., London, pp. 363–415.
- Juszkiewicz, M., Walczak, M., and Woźniakowski, G., 2019, *Review Article Characteristics of selected active substances used in disinfectants and their virucidal activity against ASFV*, Vet Res 63, 17-25.
- König, M., Lengsfeld, T., Pauly, T., Stark, R., and Thiel, H.J., 1995, *Classical Swine Fever virus: Independent induction of protective immunity by two structural glycoproteins*. J. Virol 69 : 6479–6486.
- Kaden, V., Steyer, H., Schnabel, J., and Bruer, W., 2005, *Classical Swine Fever (CSF) in wild boar: The role of the transplacental infection in the perpetuation of CSF*. J. Vet. Med. B Infect. Dis. Vet. Public Health, 52 :161–164.

- Kramer, M., Staubach, C., Koenen, F., Haegeman, A., Pol F., Le Potier, M.F., and Greiser-Wilke, I., 2009, *Scientific review on Classical Swine Fever*. EFSA Support. Publ.6.
- Krey, T., Thiel, H.J., and Rümenapf, T., 2005, *Acid-resistant bovine pestivirus requires activation for pH-triggered fusion during entry*. J. Virol.79: 4191–4200.
- Kern, B., Depner, K.R., Letz, W., Rott, M., Thalheim, S., Nitschke, B., Plagemann, R., and Liess, B., 1999, *Incidence of Classical Swine Fever (CSF) in wild boar in a densely populated area indicating CSF virus persistence as a mechanism for virus perpetuation*. Zentralbl. Veterinarmed. B,46, 63–67.
- Klinkenberg, D., Bree, J.D., Laevens, H., and Dejong M.C.M., 2002 Within- and between-pen transmission of Classical Swine Fever Virus: a new method to estimate the basic reproduction ratio from transmission experiments. Epidemiol. Infect., 128 : 293–299.
- Kairul, Udiyono, A., dan Saraswati, L. D., 2016, Gambaran pengelolaan rantai dingin vaksin program imunisasi dasar (studi di 12 puskesmas induk Kabupaten Sarolangun). Jurnal Kesehatan Masyarakat (E-Journal), 4(6), 417–423.
- Kanitz, E., Manteuffel, G., and Otten, W. 1998, Effects of weaning and restraint stress on glucocorticoid receptor binding capacity in limbic areas of domestic pigs. Brain Res. 804, 311–315.
- Kanitz, E., Otten, W., Nürnberg, G., and Brüssow, K. P., 1999, Effects of age and maternal reactivity on the stress response of the pituitary-adrenocortical axis and the sympathetic nervous system in neonatal pigs. Anim. Sci. 68, 519–526.
- Lange, A., Blome, S., Moennig V., and Greiser-Wilke, I., 2011, *Pathogenesis of Classical Swine Fever Similarities to viral haemorrhagic fevers: A review*. Berl. Munch. Tierarztl. Wochenschr.,124, 36–47.
- Lange, M., Kramer-Schadt, S., Blome, S., Beer, M., and Thulke, H.H., 2012, *Disease severity declines over time after a wild boar population has been affected by Classical Swine Fever legend or actual epidemiological process*. Prev. Vet. Med.,106, 185–19
- Leifer, I., Hoepfer, D., Blome, S., Beer, M., and Ruggli, N., 2011, *Clustering of Classical Swine Fever virus isolates by codon pair bias*. BMC Res. Notes,4, 521.

- Luo, T.R., Liao S.H., Wu, X.S., Feng, L., Yuan, Z.X., Li, H., Liang, J.J., Meng, X.M., and Zhang, H.Y., 2011, *Phylogenetic analysis of the E2 gene of Classical Swine Fever virus from the Guangxi province of southern China*. *Virus Genes*, 42, 347–35.
- Leslie, E.E.C., Geong, M., Abdurrahman, M., Ward, M.P., and Toribio, J.L.M.L., 2015, A description of smallholder pig production systems in eastern Indonesia, *Preventive Veterinary Medicine* 118 : 319–327.
- Leslie, E., 2010, Formal pig movements across Eastern Indonesia - Risk for classical swine fever transmission. ACIAR, Pork CRC, Dinas Peternakan Kupang.
- Luo, Y., Li, S., Sun, Y., and Qiu, H.J., 2014, *Classical Swine Fever in China: A minireview*. *Vet. Microbiol.* 172: 1–6.
- Lecot, S., Belouzard, S., Dubuisson, J., and Rouille, Y., 2005, *Bovine viral diarrhea virus entry is dependant on clathrin-mediated endocytosis*. *J. Virol.* 79:10826–10829.
- Leslie, E.E.C., 2012, Pig movements Across Eastern Indonesia and Associated Risk of Classical Swine Fever, Thesis submitted for Doctor of Philosophy, Faculty of Veterinary Science, University of Sydney, New South Wales, Australia.
- Liano, D. and Siagian, P.H., 2002, Priorities for pig research in South East Asia and the Pacific to 2010, ACIAR Working Paper No. 53. Australian Centre for International Agricultural Research, Canberra, Australia.
- Lee, H.S., Bui, V.N., Nguyen, H.X., Bui, A.N., Hoang, T.D., Viet, H.N., Grace, R.D., and Wieland, B., 2020, Seroprevalences of multi-pathogen and description of farm movement in pigs in two provinces in Vietnam, *BMC Veterinary Research* 16:15.
- Levis, D.G., and Baker, R.B., 2011, Biosecurity of Pigs and Farm Security, Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture. <http://extension.unl.edu/publications>.
- Linden, J., 2013, Advice on floor types and maintenance to reduce leg problems and improve health and hygiene in no. 37 in the 'Action for Productivity' series from BPEX, The Pigs site Article.
- Lackner, T., Müller, A., Pankraz, A., Becher, P., Thiel, H.J., Gorbalenya, A.E., and Tautz, N. 2004, Temporal modulation of an autoprotease is crucial

for replication and pathogenicity of an rna virus. J. Virol.78: 10765–10775.

Lackner, T., Thiel, H.J., and Tautz, N., 2006, Dissection of a viral autoprotease elucidates a function of a cellular chaperone in proteolysis. Proc. Natl. Acad. Sci. USA.103: 1510–1515.

Magkouras, I., Matzener, P., Rumenapf, T., Peterhans, E., and Schweizer, M., 2008, RNase-dependant inhibition of extracellular, but not intracellular, dsRNA-induced interferon synthesis by E^{ms} of pestiviruses. Journal of General Virology, 89: 2501–2506.

Meyers, G., Thiel, H.J., and Rumenapf, T., 1996, *Classical Swine Fever* virus: Recovery of infectious viruses from cDNA constructs and generation of recombinant cytopathogenic defective interfering particles. J. Virol. 70: 1588-1595.

Mebus, C., House, C., Gonzalvo, F.R., Pineda, J., Tapiador, J., Pire, J., Bergada, J., Yedloutschnig, R., Sahu, S., and Becerra, V., 1993, Survival of foot-and-mouth disease, african swine fever, and hog cholera viruses in spanishserrano cured hams and Iberian cured hams, shoulders and loins. Food Microbiol. 10: 133–143.

Mintiens, K., Laevens, H., Dewulf, J., Boelaert, F., Verloo, D., and Koenen, F., 2003, Preventive Veterinary Medicine Risk analysis of the spread of *Classical Swine Fever* virus through ‘neighbourhood infections’ for different regions in Belgium, Preventive Veterinary Medicine 60: 27-36.

Munoz-Gonzalez, S., Perez-Simo, M., Munoz, M., Bohorquez, J.A., Rosell R., Summerfield, A., Domingo, M., Ruggli N., and Ganges, L., 2015, Efficacy of a live attenuated vaccine in *Classical Swine Fever* r virus postnatally persistently infected pigs.Vet. Res. 46, 78.

Meyers, G. and Thiel, H.J., 1996, Molecular characterization of pestiviruses. Advances in Virus Research 47: 53-118.

Meyer, H., Liess, B., Frey, H.R., Hermanns, W., and Trautwein, G., 1981, Experimental transplacental transmission of hog cholera virus in pigs. IV. Virological and serological studies in new born piglets Zentralbl. Veterinarmed. B,28: 659–668.

Meyers, G., Saalmüller, A., Büttner, M., 1999, Mutations abrogating the RNase activity in glycoprotein E^{ms} of the pestivirus *Classical Swine Fever* virus lead to virus attenuation. J. Virol. 73: 10224–10235.

- Mayer, D., Hofmann, M.A., and Tratschin J.D., 2004, Attenuation of *Classical Swine Fever* virus by deletion of the viral N^{pro} gene. *Vaccine* 22: 317–328.
- Moennig, V., Floegel-Niesman, G., and Greiser-Wilke, I. 2003, Clinical signs and epidemiology of *Classical Swine Fever* : A review of new knowledge. *Vet. J* 165 : 11–20.
- Moennig, V., 2000, Introduction to *Classical Swine Fever* virus, disease and control policy. *Veterinary Microbiology* 73 : 93-102
- Moennig, V., and Plagemann, G.W., 1992, The pestiviruses. *Adv. Virus Res.* 41: 53 -98.
- Muller, T., Teuffert, J., Staubach, C., Selhorst, T., and Depner, K.R., 2005, Long-term studies on maternal immunity for Aujeszky's disease and *Classical Swine Fever* in wild boar piglets. *Journal of Veterinary Medicine. B, Infectious Diseases and Veterinary Public Health* 52: 432–436.
- Martin, W., 2008, *Linking causal concepts, study design, analysis and inference in support of one epidemiology for population health*. *Prev Vet Med*; 86(3-4):270-88.
- Mulya, B.G., Hasnudi, dan Budi, U., 2013, Analisis profil peternak terhadap pandangan peternak babi di kecamatan Lintong Nihuta Kabupaten Hubang Hasundutan, *J. Peternakan Integratif* Vol. 1 No. 2 ; 100 -11
- Moennig, V., 2000, Introduction to classical swine fever: virus, disease and control policy, *Veterinary Microbiology* 73 : 93-102.
- Muhlbauer, R.V., Moody, L.B., Burns R.T., Harmon J., and Stalder, K., 2010, Water Consumption and Conservation Techniques Currently Available for Swine Production. *Nation Pork Board* 09-128.
- Nath, M.K., Sarma, D.K., Das, B.C., Deka, P., Kalita, D., Dutta, J.B., Mahato, G., Sarma, S., and Roychoudhury, P., 2016, Evaluation of specific humoral immune response in pigs vaccinated with cell culture adapted classical swine fever vaccine, *Vet World*. 9(3): 308–312.
- [NAHEMS] National Animal Health Emergency Management System., 2012, *Nahems Guidelines: Vaccination For Contagious Diseases Appendix B: Vaccination For Classical Swine Fever*. United States Department of Agriculture. <http://www.cfsph.iastate.edu/pdf/fad-prep-nahemsappendix-b-classical-swine-fever>.

- Nahar, N., Uddin, M., Gurley, E.S, Hossain, M.J., Sultana, R., and. Luby, S.P., 2016, Cultural and Economic Motivation of Pig Raising Practices in Bangladesh, *Ecohealth.*; 12(4): 611–620.
- Office International des Epizooties., 1996, Manual of Standards for Diagnostic Tests and Vaccines. Lists A and B diseases of mammals, birds, and bees. 3rd ed.:145–154.
- Office International des Epizooties., 2008, Classical Swine Fever (hog cholera) dalam OIE Terrestrial Manual. www.oie.int. : 1092-1106.
- Office International des Epizooties (World Organization for Animal Health)., 2013, Terrestrial Animal Health Code: Classical Swine Fever. http://www.oie.int/fileadmin/Home/eng/Health_standards/tahc/2010/en_chapitre_1.15.2.htm.
- Office International des Epizooties (World Organization for Animal Health)., 2014, Terrestrial Animal Health Code: Killing of Animals for Disease Control Purpose, http://www.oie.int/fileadmin/Home/eng/Health_standards/tahc/2010/en_chapitre_aw_killing.htm.
- Ohmann, H.B., 1990, Electron microscopy of bovine virus diarrhoea virus. *Rev. Sci. Tech.* 9: 61–73. doi: 10.20506/rst.9.1.490.
- Oirschot, J.T., 2003, Vaccinology of classical swine fever: from lab to field, *Veterinary Microbiology* 96 (2003) 367–384.
- Oles, K., Nowak, E.G., and Kleczkowski, A., 2012, Understanding Disease Control: Influence of Epidemiological and Economic Factors, *PloS one*, Vol 7, Iss 5 :1-9.
- Ouyang, T., Zhang, X., Liu X., and Ren, L., 2019, Review Co-Infection of Swine with Porcine Circovirus Type 2 and Other Swine Viruses, *Viruses* 2019, 11, 185.
- Oliveira, V.H.S., Sørensen, J.T, and Thomsen, P.T., 2017, Associations between biosecurity practices and bovine digital dermatitis in Danish dairy herds. *J Dairy Sci* ;100(10):8398–408.
- Pauly, T., König, M., Thiel, H.J., and Saalmüller, A., 1998, Infection with *Classical Swine Fever* virus: Effects on phenotype and immune responsiveness of porcine T lymphocytes. *J. Gen. Virol.* 79: 31–40.
- Pauly, T., Elbers, K., König, M., Lengsfeld, T., Saalmüller, A., and Thiel, H. J. 1995, *Classical Swine Fever* virus-specific cytotoxic T lymphocytes and identification of a T cell epitope. *Journal of General Virology*, 76 (Pt 12): 3039–3049.

- Prahasta, E., 2015, Tutorial ArcGIS untuk bidang Geodesi dan Geomatika, Informatika Bandung Ed revisi:1-751.
- Panina, G.F., Civardi, A., Cordioli, P., Massirio, I., Scatozza, F., Baldini, P., and Palmia, F. 1992, Survival of hog cholera virus (HCV) in sausage meat products (italian salami). *Int. J. Food Microbiol.* 17: 19–25
- Pan, C.H., Jong, M.H., Huang, T.S., Liu, H.F., Lin, S.Y., and Lai, S.S. 2005. Phylogenetic analysis of *Classical Swine Fever* virus in Taiwan. *Arch. Virol.* 150: 1101–1119.
- Peraturan Daerah Kabupaten Karanganyar No 7 tahun 2015 tentang penyelenggaraan Peternakan, Kesehatan Hewan dan Perikanan. <http://jdih.karanganyarkab.go.id/admin/pdf/212-218.pdf>.
- Paton, D.J., Ibata, G., Edwards, S., and Wensvoort, G., 1991, An ELISA detecting antibody to conserved pestivirus epitopes. *J. Virol. Methods* 31: 315–324.
- Paton, D.J., McGoldrick, A., Greiser-Wilke, I., Parchariyanon, S., Song, J.Y., Liou, P.P., Stadeljek, T., Lowings, J.P., Bjorklund, H., and Belak, S. 2000, Genetic typing of *Classical Swine Fever* virus. *Vet. Microbiol.* 73: 137–157.
- Postel, A., Schmeiser, S., Perera, C.L., Rodriguez, L.J., Frias-Lepoureau, M.T., and Becher, P., 2013, *Classical Swine Fever* virus isolates from Cuba form a new subgenotype 1.4. *Vet. Microbiol.* 161: 334–338.
- Postel, A., Schmeiser, S., Bernau, J., Meindl-Boehmer, A., Pridotkas, G., Dirbakova, Z., Mojzis, M., Becher, P. 2012, Improved strategy for phylogenetic analysis of Classical Swine Fever virus based on full-length E2 encoding sequences. *Vet. Res.*, 43, 50.
- Postel, A., Schmeiser, S., Oguzoglu, T. C., Indenbirken, D., Alawi, M., Fischer, N., Becher, P. 2015. Close relationship of ruminant pestiviruses and *Classical Swine Fever* virus. *Emerging Infectious Diseases*, 21 : 668–672.
- Postel, A., Schmeiser, S., Zimmerman, B., and Becher, P. 2016, The European *Classical Swine Fever* virus database: Blueprint for a pathogen-specific sequence database with integrated sequence analysis tools. *Viruses*, 8, 302.
- Postel, A., Busch, S.A., Petrov, A., Moennig, V., and Becher, P., 2017, Epidemiology, diagnosis and control of *Classical Swine Fever*: Recent developments and future challenges, *Discontools Supplement*, EU and

OIE Reference Laboratory for *Classical Swine Fever*, Department of Infectious Diseases, Institute of Virology, University of Veterinary Medicine Hannover, Hannover, Germany, Willey : 1-14.

Postel, A., Jha, V.C., Schmeiser, S., and Becher, P, 2013, First molecular identification and characterization of *Classical Swine Fever* virus isolates from Nepal. Arch. Virol. 158: 207–21.

Poole, T.L., Wang, C., Popp, R.A., Potgieter, L.N., Siddiqui, A., and Collett, M.S. 1995, Pestivirus translation initiation occurs by internal ribosome entry. Virology. 206: 750–754.

Pestova, T.V., and Hellen, C.U., 1999, Internal initiation of translation of bovine viral diarrhea virus RNA. Virology. 258: 249–256.

Pina, M.F., Ferreira Alves, S., Correia Ribeiro, A.I., and Castro Olhero, A., 2010, Epidemiología espacial: nuevos enfoques para viejas preguntas. Universitas Odontológica 29 (63): 47-65.

Peter, L. M, Msoffe, Bunn, D., Muhairwa, A. P., Mtambo, M.M.A., Mwamhehe, H., Msago, A., Mlozi, M.R.S., and Cardona, C.J., 2010, Implementing poultry vaccination and biosecurity at the village level in Tanzania: a social strategy to promote health in free-range poultry populations, Trop Anim Health Prod 42:253–263.

Percedo, M.I, Alfonso, P., Frías, M.T., Arce, H.D., Barrera, M., Fonseca, O., and Castell, S., 2009, Humoral response to different vaccination schemes against classical swine fever (CSF) successively applied during an outbreak of the disease, Rev. Salud Anim. Vol. 31 No. 3 (2009): 158-163

Panyasing, Y., Kedkovid, R., Thanawongnuwech, R., Kittawornrat, A., JuJi., Lirola, L.G., Jeffrey, and Zimmerman., 2018, Effective surveillance for early classical swine fever virus detection will utilize both virus and antibody detection capabilities, Veterinary Microbiology 216 : 72–78.

Parchariyanon, S., Damrongwatanapokin, S., Pinyochon, W., Inui, K., Blacksell, S., and Sawada, T., 2001, Diversity of classical swine fever virus in Thailand: antigenic and vaccine efficiency studies. J. Thai. Vet. Med. Assoc. 52, 9–19.

Pham, H.T.T., Moussiaux, A.N., Grosbois, Moula, N., Truong, B.D., Vu, T.D., Trinh, T.Q., Vu, C.C., Phan, T.D., Rukkwamsuk, T., and Peyre, M., 2016, Financial Impacts of Priority Swine Diseases to Pig Farmers in Red River and Mekong River Delta, Vietnam, Transboundary and Emerging Diseases, doi:10.1111/tbed.12482.

- Renson, P., Blanchard, Y., Le Dimna, M., Felix, H., Cariolet, R., Jestin, A., Le Potier, M.F., 2010, Acute induction of cell death-related IFN stimulated genes (ISG) differentiates highly from moderately virulent *Classical Swine Fever* strains. *Vet. Res.* 41, 7.
- Ribbens, S., Dewulf, J., Koenen, F., Laevens, H., de Kruif, A., 2004, Transmission of *Classical Swine Fever*. A review, *Veterinary Quarterly*, 26, 4: 146-155.
- Risatti, G.R., Callahan, J.D., Nelson, W.M., and Borca M.V., 2003, Rapid Detection of *Classical Swine Fever* Virus by a Portable Real-Time Reverse Transcriptase PCR Assay, *Journal of clinical microbiology*, Jan, 500–505.
- Risatti, G.R., Holinka, L., Lu, Z., Kutish, G., Callahan J. D., Nelson W. M., Brea Tio, E., and Borca, M. V. 2005. Diagnostic Evaluation of a Real-Time Reverse Transcriptase PCR Assay for Detection of *Classical Swine Fever* Virus, *Journal of clinical microbiology* , Jan., 468–471.
- Risatti, G.R., Borca, M.V., Kutish, G.F., Lu, Z., Holinka, L.G., French, R.A., Tulman, E.R., and Rock, D.L., 2005, The E2 glycoprotein of *Classical Swine Fever* virus is a virulence determinant in swine. *J. Virol.* 79: 3787–3796
- Risatti, G.R., Holinka, L.G., Fernandez, S.I., Carrillo, C., Kutish, G.F., Lu, Z., Zhu, J., Rock, D.L., and Borca, M.V., 2007, Mutations in the carboxyl terminal region of E2 glycoprotein of *Classical Swine Fever* virus are responsible for viral attenuation in swine. *Virology* 364: 371–382.
- Risatti, G.R., Holinka, L.G., Fernandez Sainz, I., Carrillo, C., Lu, Z., and Borca, M.V. 2007, N-linked glycosylation status of *Classical Swine Fever* virus strain brescia E2 glycoprotein influences virulence in swine. *J. Virol.* 81: 924–933.
- Ressang, A.A., 1973, Studies on the pathogenesis of hog cholera. II. Virus distribution in tissue and the morphology of the immune response. *Zentralbl. Veterinarmed. B*, 20: 272–288.
- Ressang, A.A., 1973, Studies on the pathogenesis of hog cholera. I. Demonstration of hog cholera virus subsequent to oral exposure. *Zentralbl. Veterinarmed. B*, 20: 256–27.
- Rossi, S., Staubach, C., Blome, S., Guberti, V., Thulke, H.H., Vos, A., and Le Potier, M.F., 2015, Controlling of *Classical Swine Fever* in European

wild boar using oral vaccination: A review. *Frontiers in Microbiology*, 6, [https:// doi.org/10.3389/fmicb.2015.01141](https://doi.org/10.3389/fmicb.2015.01141).

Rahmah, N., dan Lasmini, P.S., 2014, Hubungan karakteristik dan tingkat pengetahuan petugas imunisasi terhadap praktik penyimpanan dan transportasi vaksin imunisasi di tingkat puskesmas Kota Padang tahun 2014. *Jurnal Kesehatan Andalas*, 4(3), 917–924.

Robertson, I., 2020, Disease control, prevention and on-farm biosecurity: the role of veterinary epidemiology. *Engineering* 6 : 20–25.

Ramirez, A., and Zaabel, P., 2012 *Swine Biological Risk Management*, The National Pork Board, Center for Food Security and Public Health, Veterinary Medicine, Iowa State University.

Ribbens S., Dewule J., Koenen F., Laevens H. and Kruie A., 2004 Transmission of classical swine fever. A review , *Veterinary Quarterly* 2004; 26(4): 146-155.

Risman., 2016, *Peternakan tentang persepsi masyarakat terhadap keberadaan peternakan babi di Dusun Nggerukopa*, Skripsi Syarat Meraih Gelar Sarjana, Jurusan Ilmu Peternakan Fakultas Sains Dan Teknologi UIN Alauddin Makassar.

Ratundima, E.M., Suartha, I.N., Mahardhika, I.G.N.K., 2012, Deteksi Antibodi terhadap Virus Classical Swine Fever dengan Teknik Enzyme-Linked Immunosorbent Assay , *Indonesia Medicus Veterinus* 1(2) : 217 – 227.

Roese, G., and Taylor, G., 2006, *Basic pig husbandry the weaner Livestock Officers Pigs Intensive Industries Development*, Tamworth, Primefact 72.

Rümenapf, T., Stark, R., Meyers, G., and Thiel, H.J., 1991, Structural proteins of hog cholera virus expressed by vaccinia virus: Further characterization and induction of protective immunity. *J. Virol.* 65: 589–597.

Ruggli, N., Summerfield, A., Fiebach, A.R., Guzylack-Piriou, L., Bauhofer, O., Lamm, C.G., and Tratschin, J.D., 2009, *Classical Swine Fever* virus can remain virulent after specific elimination of the interferon regulatory factor 3-degrading function of N^{pro}. *Journal of Virology* 83: 817–829.

Ruggli, N., Tratschin, J.D., Schweizer, M., McCullough, K.C., Hofmann, M.A., and Summerfield, A., 2003, *Classical Swine Fever* virus interferes with cellular antiviral defense: Evidence for a novel function of N^{pro}, *Journal of Virology*, 77, 7645–7654.

- Renson, P., Le Dimna, M., Keranflech, A., Cariolet, R., Koenen, F., and Le Potier, M.F., 2013, CP7_E2alf oral vaccination confers partial protection against early *Classical Swine Fever* virus challenge and interferes with pathogeny-related cytokine responses. *Vet. Res.*, 44, 9.
- Rümenapf, T., Unger, G., Strauss J.H., and Thiel, H.J., 1993, Processing of the envelope glycoproteins of pestiviruses. *J. Virol.* 67: 3288–3294.
- Rijnbrand, R., van der Straaten, T., van Rijn, P.A., Spaan, W.J., Bredenbeek, P.J., 1997, Internal entry of ribosomes is directed by the 5' noncoding region of *Classical Swine Fever* virus and is dependant on the presence of an RNA pseudoknot upstream of the initiation codon. *J. Virol.* 71:451–457.
- Rothman KJ, Greenland S., 2005, *Causation and causal inference in epidemiology*. *AmJ Public Health*; 95(S1):S144–50.
- Savi, P., Torlone, V., and Titoli, F., 1965, Recherches sur la survie du virus de la peste porcine classique dans certains produits de charcuterie. *Bull. OIE* 63: 87-96.
- Sakoda, Y., Ozawa, S., Damrongwatanapokin, S., Sato, M., Ishikawa, K., and Fukusho, A., 1999, Genetic heterogeneity of porcine and ruminant pestiviruses mainly isolated in Japan. *Vet. Microbiol.* 65: 75–86.
- Saubusse, T., Masson, J.D., Le Dimma, M., Abrial, D., Marce, C., Martin-Schaller, R., Rossi, S., 2016, How to survey *Classical Swine Fever* in wild boar (*Sus scrofa*) after the completion of oral vaccination Chasing away the ghost of infection at different spatial scales. *Veterinary Research*, 47, <https://doi.org/10.1186/s13567-015-0289-6>.
- Summerfield, A., Knoetig, S.M., Tschudin, R., and McCullough, K.C., 2000, Pathogenesis of granulocytopenia and bone marrow atrophy during *Classical Swine Fever* involves apoptosis and necrosis of uninfected cells. *Virology* 272 : 50–60.
- Susa, M., König, M., Saalmüller, A., Reddehase, M.J., and Thiel, H.J., 1992, Pathogenesis of classical swine fever: B-lymphocyte deficiency caused by hog cholera virus. *J. Virol.*, 66 : 1171–1175.
- Summerfield, A., and Ruggli, N., 2015, Immune responses against *Classical Swine Fever* virus: Between ignorance and lunacy. *Front. Vet. Sci.*, 2: 10.

- Summerfield, A., Alves, M., Ruggli, N., de Bruin, M.G., and McCullough, K.C. 2006, High IFN- α responses associated with depletion of lymphocytes and natural IFN-producing cells during *Classical Swine Fever* .J. Interferon Cytokine Res. 26: 248–255.
- Sumiarto, B., dan Budiharta, S., 2018, Epidemiologi Veteriner Analitik, Gadjah Mada University Pres. ed 1 hal: 1-358
- Stewart, W.C., Carbreys, E.A., and Kresse, J.I., 1973, Transplacental hog cholera infection in susceptible sows.Am. J.Vet. Res. 34: 637–64.
- Sainz, I.F., Holinka, L.G., Lu, Z., Risatti, G.R., and Borca, M.V., 2008, Removal of a N-linked glycosylation site of *Classical Swine Fever* virus strain Brescia E^{rns} glycoprotein affects virulence in swine.Virology 370: 122–129.
- Simon, G., Le Dimna, M., Le Potier, M.F., and Pol, F., 2013, *Molecular tracing of Classical Swine Fever viruses isolated from wild boars and pigs in France from 2002 to 2011*.Vet. Microbiol. 166: 631–638.
- Sandvik, T., Crooke, H., Drew, T.W., Blome, S., Greiser-Wilke, I., Moennig, V., Gous, T.A., Gers, S., Kitching, J.A., Buhrmann, G., 2005, *Classical Swine Fever in South Africa after 87 years absence*.Vet. Rec 157: 267.
- Soos, P., Mojzis, M., Pollner, A., and Sumeghy, L., 2001, *Evaluation of vaccine-induced maternal immunity against Classical Swine Fever*. Acta Veterinaria Hungarica, 49, 17–24.
- Sawford, K., Geong, M., Bulu, P. M., Drayton, E., Mahardika, G.N., Leslie, E.E., Robertson, I., Putra, A.A.G., and Toribio, J.A.L., 2015, *A investigation of Classical Swine Fever virus seroprevalence and risk factors in pigs in East Nusa Tenggara, eastern Indonesia*. Preventive veterinary medicine, 119:190-202.
- Stegeman, J.A., Elbers, A.R., Boum, A., and de Jong, M.C., 2002, *Rate of inter-herd transmission of Classical Swine Fever virus by different types of contact during the 1997-8 epidemic in The Netherlands*. Epidemiology and Infection, 128, 285–291.
- Smith, R., 2005, *Veterinary clinical epidemiology*. Boca Raton: CRC Press.
- Salman, M.D., 2009, *The role of veterinary epidemiology in combating infectious animal diseases on a global scale: the impact of training and outreach programs*. Prev Vet Med; 92(4):284–7.

- Stark, R., Meyers, G., Rümenapf, T., and Thiel, H.J., 1993 Processing of pestivirus polyprotein: Cleavage site between autoprotease and nucleocapsid protein of *Classical Swine Fever* virus. *J. Virol.* 67 :7088–7095.
- Sunaryo., 2015, Analisis spasial untuk penyakit berbasis lingkungan, Makalah Seminar Nasional Upaya Pengendalian Penyakit Berbasis Wilayah, Poltekkes Kemenkes Semarang di Purwokerto, 19 Des. 2015. Balai Penelitian dan Pengembangan Pengendalian Penyakit Bersumber Binatang Banjarnegara.
- Swacita, I.B.N., 2017, Biosekuriti, Bahan ajar, Laboratorium Kesmavet Fakultas Kedokteran Hewan, Universitas Udayana Denpasar.
- Szent-Ivanyi, T., 1977, Eradication of classical swine fever in Hungary. *Proceedings of the CEC Seminar on Hog Cholera/Classical Swine Fever and African Swine Fever.* EUR 5904 EN, Hannover, pp. 443–440.
- Steenwinkel, S.V., Ribbens, S., Ducheyne, E., Goossens, E., and Dewulf J., 2011, Assessing biosecurity practices, movements and densities of poultry sites across Belgium, resulting in different farm risk-groups for infectious disease introduction and spread, *Preventive Veterinary Medicine* 98(4):259-70.
- Siagian, S.P., 2004, Teori Motivasi dan Aplikasinya. PT. Rineka Cipta, Jakarta.
- Suradhat, S., Damrongwatanapokin, S., and Thanawongnuwech, R., 2007, Factors critical for successful vaccination against classical swine fever in andemic areas, *Veterinary Microbiology* 119 (2007) 1–9.
- Sasroamidjojo, M.S., 1991, Ternak Babi. Yasaguna, Jakarta.
- Suradhat, S., and Damrongwatanapokin, S., 2003, The influence of maternal immunity on the efficacy of a classical swine fever vaccine against classical swine fever virus, genogroup 2.2, *infection.Vet. Microbiol.*, 92: 187-194.
- Suradhat, S., Damrongwatanapokin, S., and Thanawongnuwech, R., 2007, Factors critical for successful vaccination against classical swine fever in andemic areas. *Vet. Microbiol.*, 119:1-9.
- Sawford, K., do Karmo, A., da Conceicao, F., Geong, M., Tenaya, I.W.M., Hartawan, D.H.W., Jenny, A.L., and Toribio, M.L., 2015, An investigation of classical swine fever virus seroprevalence and risk factors in pigs in Timor-Leste, *Preventive Veterinary Medicine* 122; 99–106

- Segalés, J., Domingo, M., Chianini F., Majó, N., Domínguez, J., Darwich, L., and Mateu, E., 2004, Immunosuppression in Postweaning Multisystemic Wasting Syndrome Affected Pigs, *Vet Microbiol*;98(2):151-8
- Supartika, I.K.E., Uliantara, I.G.A.J., dan Ananda, C.R.K., 2015, Laporan Kasus Hog cholera di Kabupaten Sabu Nusa Tenggara Timur, *Buletin Veteriner, BBVet Denpasar*, Vol. XXVII, No. 87.
- Tarigan, S., Bahm, S., dan Sarosa, A., 1997, *Hog Cholera Pada Babi*, Wartazoa , Balai Besar Penelitian Veteriner, Vol. 6 No. 1
- Tarradasa, J., Torrea, M.E., Rosella, R., Pereza, L.J., Pujolsa, J., Muñoz, M., Muñoz, I., Muñoz, S., Abada, X., Domingoa, M., Frailea, L., and Gangesa, L., 2014, *The impact of Classical Swine Fever on the immune response to control infection*, *Virus Research* 185 : 82–91.
- Tarradasa, J., Argilagué, J.M., Rosell, R., Nofrarias, M., Crisci, E., Córdoba, L., Perez-Martin, E., Diaz, I., Rodriguez, F., and Domingo, M., 2010, *Interferon-γ induction correlates with protection by DN, vaccine expressing E2 glycoprotein against Classical Swine Fever virus infection in domestic pigs*. *Vet. Microbiol.*, 142: 51–58.
- Topfer, A., Höper, D., Blome, S., Beer, M., Beerenwinkel, N., Ruggli, N., and Leifer, I., 2013, *Sequencing approach to analyze the role of quasispecies for classical swine fever*. *Virology*, 438: 14–19.
- Turner, C., Williams, S.M., and Cumby, T.R., 2000, *The inactivation of foot and mouth disease, aujeszky's disease and Classical Swine Fever viruses in pig slurry*. *J. Appl. Microbiol.* 89: 760–767
- Trautwein, G., 1988, *Classical Swine Fever and related infections. In Pathology and Pathogenesis of the Disease*; Martinus Nijhoff: Boston, MA, USA., 27–54.
- Tautz, N., Elbers, K., Stoll, D., Meyers, G., Thiel, H.J., 1997, *Serine protease of pestiviruses: Determination of cleavage sites*. *J. Virol.* 71: 5415–5422.
- Tews, B.A., Schurmann, E.M., Meyers, G., 2009, *Mutation of cysteine 171 of pestivirus E^{ns} RNase prevents homodimer formation and leads to attenuation of Classical Swine Fever virus*. *J. Virol.* 83: 4823–4834.
- Tang, F., Pan, Z., Zhang, C., 2008, *The selection pressure analysis of Classical Swine Fever virus envelope proteins E^{ns} and E2*. *Virus Res* 131: 132–135.

- Tamura, T., Sakoda, Y., Yoshino, F., Nomura, T., Yamamoto, N., Sato, Y., Okamatsu, M., Ruggli, N., and Kida, H., 2012, *Selection of Classical Swine Fever virus with enhanced pathogenicity reveals synergistic virulence determinants in E2 and NS4B*. J. Virol. 86: 8602–8613.
- Terpstra, C. and Wensvoort, G., 1988, *Natural infections of pigs with bovine viral diarrhoea virus associated with signs resembling Classical Swine Fever*. Res. Vet. Sci. 45 : 137-142.
- Tessler, J., Stewart, W.C., and Kresse, J.I., 1975, *Stabilization of hog cholera virus by dimethyl sulfoxide*. Can. J. Comp. Med. 39: 472–473.
- Thiel, H. J., Stark, R., Weiland, E., Rumenapf, T. and Meyer, G., 1991, *Hog cholera virus : molecular composition of virions from a pestivirus*. J. Virol 65: 4705-4712.
- Tulle, D.R., Haryadi, F.T., dan Arinto., 2005, Analisis dan motivasi pandangan pada usaha pemeliharaan ternak babi bersekala rumah tangga di kota Kupang, Buletin Peternakan Vol. 29 (2): 88-96.
- Tahulanding, M.F.J., Kandou, G.D., and Ratag, B., 2015, Faktor-faktor Yang Berhubungan Dengan Tindakan Pencegahan Penyakit Rabies Di Kelurahan Makawidey Kecamatan Aertembaga Kota Bitung, JIKMU, Suplemen Vol, 5. No, 1; 169-178.
- Thrusfield, M., 2005, Veterinary Epidemiology, Iowa, USA.:Blackwell Science Publishing.
- Terpstra, C., and Wensvoort, G., 1988, The protective value of vaccine-induced neutralizing antibody titers in swine fever. Vet. Microbiol. 16, 123–128.
- Van Oirschot, J.T., 2003, *Vaccinology of Classical Swine Fever: From lab to field*. Vet. Microbiol. 96: 367–384
- Van Oirschot, J.T., 1999, *Hog cholera*. In: Shaw, B.E, et al. (Eds.), *Diseases Of Swine*, 8th Edition. Iowa State University Press, Iowa, 159-172.
- Van Oirschot, J.T., and Terpstra, C.A., 1977, *A congenital persistent swine fever infection. I. Clinical and virological observations II. Immue response to swine fever virus and unrelated antigens*. Vet. Microbiol. 2, 121-142.
- Van Zijl, M., Wensvoort, G., de Kluyver, E., Hulst, M., van der Gulden, H., Gielkens, A., and Moormann, R., 1991, *Live attenuated pseudorabies virus expressing envelope glycoprotein E1 of hog cholera virus protects swine against both pseudorabies and hog cholera*. Journal of Virology, 65, 2761–2765

- Vanderhallen, H., Mittelholzer, C., Hofmann, M.A, and Koenen, F., 1999, *Classical Swine Fever virus is genetically stable in vitro and in vivo*. Arch. Virol., 144, 1669–1677.
- Von Benten, K., Trautwein, G., Richter-Reichhelm, H.B., Liess, B., and Frey, H.R., 1980, *Experimental transplacental transmission of hog cholera virus in pigs. III. Histopathological findings in the fetus*. Zentralbl. Veterinar med. B, 27, 714–724.
- Van Steenwinkel, S., Ribbens, S., Ducheyne, E., Goossens, E., and Dewulf, J., 2011, Assessing biosecurity practices, movements and densities of poultry sites across Belgium, resulting in different farm risk-groups for infectious disease introduction and spread. Prev Vet Med; 98(4):259–70.
- von Ruden, S., Staubach, C., Kaden, V., Hess, R.G., Blicke, J., Kuhne, S., and Moennig, V., 2008, *Retrospective analysis of the oral immunisation of wild boar populations against Classical Swine Fever virus in region Eifel of Rhineland-Palatinate*. Veterinary Microbiology, 132, 29–38.
- Waller, L., Gelfand, A.E., Diggle, P.J., Fuentes, M., and Guttorp, P., 2010, *Point Process Models and Methods in Spatial Epidemiology*, Handbook of spatial statistics. Taylor and Francis, London.
- Wirata, I.W., Mahardika, I.G.N.K., Dewi I.A.S.C., Putra, G.N.N., Winaya, I.B O., Suardana, I.B.K., Sari, T.K., Suartha, I.N., 2010, Deteksi Virus *Classical Swine Fever* di Bali dengan RT-PCR, Jurnal Veteriner September, Vol. 11 No. 3 : 144-151.
- Wu, Z., Wang, Q., Feng, Q., Liu, Y., Teng, J., Yu, A.C., and Chen, J., 2010, *Correlation of the virulence of Classical Swine Fever with evolutionary patterns of E2 glycoprotein*. Front. Biosci. (Elite Ed.) 2: 204–22
- World Organization for Animal Health (OIE)., 2004, *Manual of diagnostic tests and vaccines*. Paris: OIE; *Classical swine fever*.
- Weesandorp, E., Stegeman, A., and Loeffen, W.L., 2008, *Survival of Classical Swine Fever virus at various temperatures in faeces and urine derived from experimentally infected pigs*. Vet. Microbiol 132: 249–259.
- Weiland, E., Ahl, R., Stark, R., Weiland, F., and Thiel, H. J., 1992, *A second envelope glycoprotein mediates neutralization of a pestivirus, hog cholera virus*. Journal of Virology 66: 3677–3682.
- Weiland, E., Stark, R., Haas, B., Rumenapf, T., Meyers, G., and Thiel, H. J., 1990, Pestivirus glycoprotein which induces neutralizing antibodies

forms part of a disulfide-linked heterodimer. *Journal of Virology* 64 : 3563–3569.

Wang, Z., Nie Y., Wang, P., Ding, M., and Deng, H., 2004, Characterization of *Classical Swine Fever* virus entry by using pseudotyped viruses: E1 and E2 are sufficient to mediate viral entry. *Virology* 330 : 332–341.

Wiskerchen, M., Belzer, S.K., and Collett, M.S., 1991, Pestivirus gene expression: The first protein product of the bovine viral diarrhea virus large open reading frame, p20, possesses proteolytic activity. *J. Virol.* 65: 4508–4514.

Weiss, E., Teredesai, A., Hoffmann, R., Hoffmann-Fezer, G., 1973, Volume distribution and ultrastructure of platelets in acute hog cholera. *Thromb. Diath. Haemorrh.*, 30: 371–380.

Webster, R., Oliver, M.A., Muir, K.R. and Mann, J.R., 1994, *Kriging the local risk of a rare disease from a register of diagnoses*. *Geographical Analysis* 26 (2): 168–185.

WHO., 2008 Biosafety and biosecurity in Health Laboratories. Report of a Regional Workshop. Pune. India, 8-11 July 2008. BCT-Report-SEA-HLM-398.pdf (Diakses, 20 Juni 2012).

Winarsih S, Hariyah Anggreni N, Susanto D, 2018 Investigasi outbreak CSF di desa Sidomulyo Godean Sleman tahun 2018, *Proc. of the 20 th Fava Congress & The 15 th KIVNAS PDHI*, Bali: 463- 466.

Wera E., Daryono J., Nurcahyono R., Tukan C.J., Ferdinandus R., dan Ansori R. 2018 Analisis Manfaat Biaya Pengendalian dan Pemberantasan Hog Cholera di Provinsi Nusa Tenggara Timur *Proc. of the 20 th Oral Presentation (KIVFA-5) KIVNAS PDHI*.

Williams P.D. and Paixão G., 2018 On-farm storage of livestock vaccines may be a risk to vaccine efficacy: a study of the performance of on-farm refrigerators to maintain the correct storage temperature, *BMC Veterinary Research* 14:136, <https://doi.org/10.1186/s12917-018-1450-z>

World Health Organization., 2015 Biosecurity: an integrated approach to manage risk to human, animal and plant life and health, 2010 March 3th. Cited on 2015 July 7th. Diunduh: http://www.who.int/foodsafety/fsmanagement/N01_Biosecurity_Mar10_2020.