

DAFTAR PUSTAKA

- Abrianto, 2019., Ilmu Pengetahuan dan Teknologi Ternak Sapi/Persiapan Perkawinan Sapi Perah.
- Acha.,PN and Boris S., 2003, *Zoonosis and Communicable Disease Common to Man and Animal*. Volume 1: *Bacterioses and Mycoses*, 3rd ed. Washington.
- Adamu NB., 2009, *Epidemiology of Brucella infection in ruminants and humans and its public health implications in Borno state, Nigeria*. Veterinary Public Health and Preventive Medicine Department, Ahmadu Bello University, Zaria, Nigeria;. [Google Scholar]
- Adman L. 2008. Brucellosis pada sapi. <http://www.m2techmicro.com>.
- Ahasan, S.; Rahman, S.; Rahman, A.; Berkvens, D., 2017, *Bovine and caprine brucellosis in Bangladesh: Bayesian evaluation of four serological tests, true prevalence, and associated risk factors in household animals*. Tropical Animal Health and Production, v.49,n.1,p.1-11,. <https://doi.org/10.1007/s11250-016-1151-1> [Links].
- Akakpo, AJ, Teko-Agbo, J., Kone, P., 2009. *The Impact of Brucellosis on The Economy and Public Health in Africa*, *Inter-State School of Veterinary Sciences and Medicine*, Conf. OIE 2009, 85-98.
- Akoso, B. T., 2008, Manual untuk Paramedis Kesehatan Hewan, Edisi ke-3. Jakarta (ID): Direktorat Jenderal Peternakan.
- Alhaji, N.B., Wungak, Y.S. & Bertu W.J., 2016, *Serological survey of bovine brucellosis in Fulani:nomadic cattle breeds (Bos indicus) of North-central Nigeria: Potential risk factors and zoonotic implications*, *Acta Tropica*. 153(3): 28–35.
- Ali, S., Saeed, U., Khan,T.M., Adawy, H., Melzer., A., *Seroepidemiology and the Molecular Detection of Animal Brucellosis in Punjab, Pakistan.*, *Microorganism* 7, 449.
- Alton, G.G. 1978. *Recent development in vaccination againsts bovinebrucellosis*. *Aust. Vet.J.* 54:551-556.
- Alton, G.G., L.M. Jones, R.D. Angus, and J.M. Verger., 1988, *TechniquesfortheBrucellosis Laboratory*. Institute Nationaldela Recherche, Agronomicque, Paris

- Alton, G.G., G.G. Alton and Forsyth.J.R.L. 1996. *Medical Microbiology*. 4th edition. The University of Texas Medical Branch at Galveston. Chapter 28 .
- Angara, T.E., Ismail., A.A.A., Isbrahim., A.M., Osman., S.Z., 2016. *Assesment of The Economic Losses due to Bovine Brucellosis in Kartoum State, Sudan., International Journal of Technical Research and Applications*, Volume 4, Issue 2, PP. 85-90, www.ijtra.com.
- Anonimus 2. 2000. Pedoman Surveilans dan Monitoring Brucellosis pada sapi dan kerbau. Direktorat Kesehatan Hewan. Direktorat Jenderal Produksi Peternakan. Departemen Pertanian. Jakarta.
- Arifin. J. 2002., SPSS 24 Untuk Penelitian dan Skripsi., PT Elex MediaKomputindo., Yogyakarta
- Arif S, Thomson P.C, Hernandez-Jover M, McGill D.M, Warriach H.M, Heller J., 2017, *Knowledge, attitudes and practices (KAP) relating to brucellosis in smallholder dairy farmers in two provinces in Pakistan*. PLoS One.12(3):e0173365.
- Asmare, K., Asfaw, Y., Gelaye, E., dan Ayelet, G. 2010. Brucellosis in extensive management system of zebu cattle iin Sidame Zone, Southern Ethiopia, *African journalof Agricultural Rasearch* 5(3):257-263.
- Auklah, H.K., Patil, P.K., Sharma, Kumar, H, Mahajan, V., dan Shadu, K.S., 2008., *A Study on The Epideemiology of Bovine Brucellosis in Punjab (India).*, Acta vet, 77 :393-399
- Avolio, B.J., and Waldman, D.A., 1994. *Variations in cognitive, perceptual, and psychomotor abilities across the working life span: Examining the effects of race, sex, experience, education, and occupational type*. *Psychology and Aging*, 9(3), 430-442.
- Azevedo, S.S., Ferreira, J.S., Neto, J.S., Ferreira, F., Dias, R.A., Amaku, M. and Vasconcellos, S.A. (2011) Association between brucellosis and occurrence of abortions in bovine from the Espirito Santo State, Southeast region of Brazil. 48(3): 215-219. 45. Muma, J.B., Pandey, G.S., Munyeme, M., Mumba, C., Mkandawire, E. and Chimana, H.M. (2012).
- Bahaman, A.R., Joseph., P.G., Bejp., S.K., 2007. A review of the epidemiology and control of Brucellosis in Malaysia
- Balai Veteriner subang, 2017, Laporan Tahunan Tahun 2017, Direktorat kesehatan hewan, Kementerian Pertanian.
- Ball PJ and Peter AR. 2004. *Reproduction in Cattle*.3rd ed. Blackwell Science, Inc.

- Baratawidjaja, K.G., dan Rangganis, I., 2018., *Imunologi Dasar.*, Fakultas Kedokteran Universitas Indonesia.
- Barbier, T., Machelart, A., Zúñiga-Ripa, A., Plovier, H., Hougardy, C., Lobet, E., Muraille, K.E., Bolle, X., Schaftingen, E.V., Moriyón, I., and Letesson, J., 2017. *Erythritol Availability in Bovine, Murine and Human Models Highlights a Potential Role for the Host Aldose Reductase during Brucella Infection.*, NCBI. PMC, Front. Microbiol. 8.6: 1088.
- Bare & Smeltzer.2002. Buku Ajar Keperawatan Medikal Bedah Brunner & Suddart (Alih bahasa Agung Waluyo) Edisi 8 vol.3. Jakarta :EGC
- Barkallah, M., Gharbi, Y., Hassena, B.A., Slima, A.B., Mallek, Z., Gautier, M., Greub, G., Gdoura R., Fendri, I.M., 2014. *Survey of Infectious Etiologies of Bovine Abortion during Mid- to Late Gestation in Dairy Herds*, Doi 10.1371/journal.pone.0091549, pp :2-5
- Bearden and Fuquay, 2000. *Applied Animal Reproduction*, Mississippi State University, 5th Edition.
- Berhe G., Belihu K. & Asfaw Y., 2007, ‘*Seroepidemiological investigation of bovine brucellosis in the extensive cattle production system of Tigray Region of Ethiopia*’, International Journal of Applied Research in Veterinary Medicine 5(2), 65–71.
- Blasco, J.M., 2000. *Control and eradication programmes of brucellosis in small ruminants and cattle. Implementation of Control and Eradication Programs in Animals*. Zaragoza- za; Curso de Epidemiologia.
- Boeljhe, M.D., And Eidman V.R., 1984., *Farm Manajemen.*, Wiley.New York, 806 pp
- Branco and Recife, 2019. *Analysis of the risk factors for bovine brucellosis in dairy herds of the Rio Branco microregion Acre Brazil*. Arquivos do Instituto Biológi, São Paulo, Scielo. Arq. Inst. Biol. vol.86:10, ISSN 1808-1657.
- Brasil. Ministério da Agricultura, Pecuária e Abastecimento (MAPA). *Regulamento Técnico do Programa Nacional de Combate e Erradicação da Brucelose e Tuberculose*. Brasília: MAPA/SFA/DAS, 2006. [[Links](#)]
- Bricker BJ, and Halling SM.. 1994. Differentiation of *Brucella abortus* bv 1, 2, and 4, *Brucella melitensis*, *Brucella ovis*, and *Brucella suis* bv. 1 by PCR. J. Clin. Microbiol. 32:2660-2666.

- Bricker BJ, Ewalt DR, Olsen SC, Jensen AE. 2003. Evaluation of the *Brucella* abortus species-specific polymerase chain reaction assay, an improved version of the *Brucella* AMOS polymerase chain reaction assay for cattle. *J. Vet Diagn Invest* 15 : 374-378.
- Brubaker, R.R.1985. *Mechanism of Bacterial Virulence. In Ornston, L.N., A. Balows and P. Baumann (Edits). Annual Review of Microbiology*. Vol 39, Annual Review Inc. Paio Alto, California.
- Budiharta, S., 1992., S. dan Suardana, IW., 2007. Buku ajar Epidemiologi dan Ekonomi Veteriner. Penerbit Udayana.
- Butaco. B., 2019, *Herd Health Management on Dairy Farm*, <https://www.iiste.org/Journals/index.php/JBAH/issue/view/3841> , DOI: 10.7176/JBAH/9-1-09.
- Carvalho Neta A.V., Mol J.P.S., Xavier M.N., Paixão T.A., Lage A.P. & Santos R.L. 2010. *Pathogenesis of bovine brucellosis*. *Vet. J.*, 184, 146–155.
- Cameroon, A. 2002., “*Survey Toolbox for Aquatic Animal Disease. A Practical Manual and SoftwarePackage*”. ACIAR., Canbera.
- Cardenas, L., *et al.*, 2019., *Risk Factor For New Bovine Brucellosis Infectius in Columbian Herd.*, *BMC Veterinary Research*, article number 15:81., Columbia
- Castaño, MJ., Navarro E, Solera, J., 2017, *Brucellosis.*, *International Encyclopedia of Public Health (Second Edition)*, Science direct., Pages 281-295.
- CFSPH-Center for Food Security and Public Health. 2009, *Brucellosis.*, www.cfsph.iastate.edu/Factsheets/pdfs/brucellosis.pdf 26 Updates on Brucellosis.
- Chahotal, R., Sharmal, M., Katochl, R.C., Verma S. Singh, M.M., Kapoorl, V., 2003. *Brucellosis outbreak in an organized dairy farm involving cows and in contact human beings, in Himachal Pradesh, India*. *Veterinarski Arhiv*, 73, 95–102.
- Chand, P. and Chhabra, R. (2013) Herd and individual animal prevalence of bovine brucellosis with associated risk factors on dairy farms in Haryana and Punjab in India.
- Chin J., 2006, .*Manual Pemberantasan Penyakit Menular*. Cetakan II. Edisi 17. Infomedika. Jakarta.
- Ciocchinia, A.E., Rey Serantesa, D.A., Mellia, L.J., Guidolina, L.S., Iwashkiw, J.A., Elena, S., Franco, C., Nicola, A.M., Feldman, M.F., Comerchi, D.J.,

- Ugalde, J.E., 2014. *A bacterial engineered glycoprotein as a novel antigen for diagnosis of bovine brucellosis*. Vet. Microbiol. 172, 455–465.
- Civas, Laporan surveilan tahun 2017. Dinas Pertanian dan peternakan Kabupaten Bandung Barat.
- Civas, 2019. Brucellosis ,. <http://civas.net/2014/02/23/brucellosis/2/>
- Crawford RP, JD Huber, BS Adams. 1990. *Epidemiology and surveillance*. In: *Animal Brucellosis*. Nielsen KH and JR Duncan (Eds.). Boca Raton (FL): CRC Press. pp.131–151.
- Coelho, A.C., Díez, J.G., and Adosinda, M.C., 2015, *Risk Factors for Brucella spp in Domestic and Wild Animals*, Intech: 2-15.
- Corbel, M. J., Elberg, S. S, Cosivi O., 2006, Brucellosis in humans and animals. Geneva: World Health Organization.
- Cvetnic Z, Mitak M, Ocepek M, Lojkic M, Terzic S, Jemersic L, Humski A, Habrun B, Sostaric B, Brstilo, Krt B, Garin-Bastuji B. 2003, *Wild boars (Sus scrofa) as reservoirs of Brucella suis biovar 2 in Croatia*. Acta Veterinaria Hungarica.;51:465-473.
- Dewi, A.K. 2009. Kajian Brucellosis pada Sapi dan Kambing Potong yang Dilalulintaskan 2di Penyeberangan Merak Banten [Tesis]. Institut Pertanian Bogor.
- De Alencar Mota, A.L.A., Ferreira, F., Ferreira Neto, J.S., Dias, R.A., Amaku, M., Hildebrand Grisi-Filho, J.H., 2016. *Large-scale study of herd-level risk factors for bovine brucellosis in Brazil*, Acta Tropica .164.12: 226–232.
- Deka, R.P., Magnusson, U., Grace, D. and Lindah, J., 2018. *Bovine brucellosis: prevalence, risk factors, economic cost and control options with particular reference to India, a review Infectious and Ecology*, Taylor and Francis Group, Vol. 9.1556548, pp:3-6.
- De Figueiredo, P., Ficht, T.A., Rice-Ficht, A., Rossetti, C.A., Adams, L.G. 2015. *Pathogenesis and immunobiology of brucellosis: review of Brucella–host interactions*. Am J Pathol:185:1505–17.
- De Vries, A. 2006. *Determinants of the cost of days open in dairy cattle*. Department of Animal Sciences. University of Florida. Gainesville 32611. USA.
- Djaja, W. 1991. Perhitungan Jumlah Sapi Produktif dan Non Produktif. Buletin PPSKI. Nomor 33 Tahun VII April-Juni 1991.

- Djanuar R., 1985., Fisiologi reproduksidan Inseminasi Buatan, Pada Sapi, Yogyakarta, Gadjah Mada University Press.
- Dhand, N.K, Gumber, S., Singh, B.B., Aradhana, Bali, M. S., Kumar, H., Sharma, D.R., Singh, J. and Sandhu, K.S., 2005, *A study on the epidemiology of brucellosis in Punjab (India) using survey toolbox*.
- [Ditjennak] Direktorat Jendral Peternakan. 1998. Pedoman Teknis Pemberantasan Brucellosis di Indonesia. Jakarta: Ditjennak Deptan.
- Doll, J.P and Orazem. 1985., *Production Economic , Theory With Aplications.*, 2 nd., New York.
- Dorneles, E.S., Sriranganathan, N. and Andrey, P., 2015. *Recent advances in Brucella abortus vaccines*. Vet. Res. doi: 46(1): 76. Pp: 2-5.
- Edward J.Young, 2018., *Brucella Species (Brucellosis), Principles and Practice of Pediatric Infectious Diseases (Fifth Edition)*, Sci Dir. Bag. 161, Pages 886-889. <https://doi.org/10.1016/B978-0-323-40181-4.00161-4>.
- Ellen, J., 2013. *Seroprevalence and risk factors for bovine brucellosis, salmonellosis and bovine viral diarrhea in urban and peri-urban areas of Kampala, Uganda.*, Institutionen för boimedicin och veterinär folkhälsovetenskap,. ISSN 1652-8697 Examensarbete:25.
- Ellen, J., Angela, I. Dement, F. C., Faries , J., 1914. *The Texas A&M System.Biosecurity Practices for Dairy, Operations* pp.8-9.
- FAO, 2013., *Regional Workshop and Brucellosis Control in Central Asia and Eastern Europe.*, *International Agricultural Research and Training Center (UTAEM)*, Izmir, Turkey., pp: 11-29.
- Faust,M. A., Kinsel,M. L., and Kirkpatrick ,M. A. (2001): *Characterizing Biosecurity, Health, and Culling During Dairy Herd Expansions*.Journal of Dairy Science. 84:955–965.
- Fauzi, dkk., 2012., Evaluasi Sapi perah (PFH) Betina Afkir Umur Produktif di Kecamatan Karangploso Malang., Universitas Brawijaya.
- Fero Edi, Juma Arla, Koni Anita, Jonida Boci,Toni Kirandjiski,Robert Connor,Gamal Wareth,Xhelil Koleci,. 2020, *The seroprevalence of brucellosis and molecular characterization of Brucella species circulating*

in the beef cattle herds in Albania, Published: March 5,
<https://doi.org/10.1371/journal.pone.0229741>.

Fever. 2007, Brucellosis., www.cfsph.iastate.edu (2 Oktober, 2013).

Figueiredo, De P., Ficht, T.A., Rice-Ficht, A., Rossetti, C.A., Adams, L.G., 2015.
Pathogenesis and immunobiology of brucellosis. review of Brucella–host interactions. doi: 10.1016/j.ajpath.. 185:1505–1517.

Firman, A, 2010. Agribisnis Sapi Perah. Bandung Widya Padjadjaran.

Gittinger, J.P., 1986, *Economic Analysis of Agriculture Project*, 2 nd edn. John Hopkins University Press, Baltimore, Maryland

Granados, LMA., Daniel G. Garcia-Gonzalez, Jorge L. Zambrano-Varon, and Angela M. Arenas-Gamboa, 2019., *Brucellosis in Colombia: Current Status and Challenges in the Control of an Endemic Disease*, Front Vet Sci.; 6: 321

Gudono, 2017. Analisis data Multivariat., Universitas Gadjah Mada, BPFE., Yogyakarta

Gunay A., Gunay., U., dan Orman A., 2011., *Effect of Retained Placenta Fertility and Treated Dairy Cows*. Bulgarian Journal of Agriculture Science., 17 (No. 1) :126-131.

Godfroid J., 2017. *Brucellosis in livestock and wildlife: Zoonotic diseases without pandemic potential in need of innovative one health approaches*. Arch. Public Health.; 75(1):34.

Gul ST, Khan A, Ahmad M, Hussain I, 2013. *Seroprevalence of brucellosis and associated hemato-biochemical changes in Pakistani horses*. Pakistan Journal of Agricultural Sciences.; 50:745-750.

Gemma, I., Iyob H, Alemayehu M and Wubishet , 2019. *Sero-Prevalence and Associated Risk Factor of Bovine Brucellosis in Borena Zone, Southern Ethiopia*, Acta science medical journal, (ISSN: 2582-0931), page:4-6.

Geresu, M.A., Ameni, G., Kassa, T., Tuli, G., Arenas, A., Kassa, G.M., 2016. *Seropositivity and risk factors for Brucella in dairy cows in Asella and Bishoftu towns, Oromia Regional State, Ethiopia*, College of Veterinary Medicine and Agriculture, Addis Ababa University, Bishoftu, Ethiopia. Academic Journals No. E303AFC57233 Vol.10(7), pp. 203-213.

Gervais Ndazigaruye, Borden Mushonga, Erick Kandiwa, Alaster Samkange, and Basiamisi E. Segwagwe corresponding author, 2018., *Prevalence and risk*

factors for brucellosis seropositivity in cattle in Nyagatare District, Eastern Province, Rwanda, J S Afr Vet Assoc. 89: 1625.

Hafez, E. S. E., 2000. *Reproduction in farm animals*. Hafez, E. S. E. Editor. Lea and Febiger. Philadelphia.

Hardjopranojoto, S. 1995. Ilmu Kemajiran Pada Ternak. Universitas Airlangga Press., Surabaya

Holt, H., Eltholth, M., Hegazy, Y., El-Tras, W., Tayel, A., Guitian, J., 2011. *Brucella spp. infection in large ruminants in an endemic area of Egypt: cross-sectional study investigating seroprevalence, risk factors and livestock owner's knowledge, attitudes and practices*, (KAPs). BMC Public Health. 11:341.

Hussain I, Arshad M, Mahmood M, Akhtar M., 2008. *Seroprevalence of Brucellosis in Human, Cattle, and Buffalo Populations in Pakistan*. Turk J Vet Anim Sci.;32:315–8.

Islam, Md. A., Khatun, Mst., M., Were, S.R., Srirangthan, N., dan Boyle. M., 2013., *A Review of Brucella Seroprevalence Among Human and Animals in Bangladesh., with Special Emphasis on Epidemiology., Risk Factor and Control Opportunities., Veterinary Microbiology 166* : 317-326.

Jainudeen, M.R. and Hafez, E.S.E. 2008. *Cattle And Buffalo dalam Reproduction In Farm Animals*. 7th Edition. Edited by Hafez E. S. E. Lippincott Williams & Wilkins. Maryland. USA. 159 : 171.

Jonathan Lalsiamthara, John Hwa Lee, 2017. *Development and trial of vaccines against Brucella*, J Vet Sci. Aug; 18(Suppl 1): 2017, 281–290.

Kaaboub EI, Ouchene N, Ouchene-Khelifi NA, and Khelef D, 2019. *Serological and histopathological investigation of brucellosis in cattle in Medea region, Northern Algeria* Vet World. 2019 May; 12(5): 713–718.

Kadohira, M.J.J., Mc Dermott, M.M., Sheukri, Kyule, Thornburn, M.A., 1997. *Assessing the infections at multiple levels of aggregations*. Preventive Vet. Med. 29, 161–177.

Kaoud, HA., Zaki MM., El-Dahshan, AR., Nasr, SA., 2010. *Epidemiology of brucellosis, among farm animals*. Nature and Science, 8, 190–19.

Kim Hyong, T., et al., 2011. *Vaccine herd effect.*, Scand J Infect Dis. Sep; 43(9): 683–689. doi: 10.3109/00365548.2011.582247.

- Klien, G.C., K.A. Behan. 1991. *Determination of Brucella Immunoglobulin G Agglutinating Antibody Titer with Dithiothreitol*. J Clin Microbiol, 14(1): 24-25.
- Kollannur, J.D., Rathore, R. and Chauhan, R.S. 2013. Epidemiology and economic of Brucellosis in Animals and Its Zoonotic Significance. Indian Veterinary Research Institute, Izatnagar – 243122, INDIA, ISAH-2007 Tartu, Estonia.
- Last, J.M., 2001. *A Dictionary of Epidemiology*, 4 th edn. Oxford University Pres, Newyork.
- Lemos TS, Cequinel JC, Costa TP, Navarro AB, Sprada A, Shibata FK, *et al.* 2018. *Outbreak of human brucellosis in Southern Brazil and historical review of data from 2009 to 2018*. PLoS neglected tropical diseases.;12(9):e0006770. Epub 2018/09/19.
- Lokamar, P.N., Kutwah, M.A., Atieli, H., Gumo, G., and Collins., 2020, *Socio-economic impacts of brucellosis on livestock production and reproduction performance in Koibatek and Marigat regions, Baringo County, Kenya*, NCBI, BMC Vet Res.; 16: 61.
- Makita, K, Fevre., Waisa, C., Eishler., M.C., Thrusfield., M, Welburn, S.C., 2011., *Herd Prevalensi of Bovine Brucellosis and Analysis of RiskFactor in Cattle in Urban., and Peri Urban Area of Campala Economic Zone., Uganda*. BMC., Veterinary Resecr : 760
- Mangen, M.J., Otte. J., Pfeiffer, D., dan Chilonda, P. 2002. *Bovine Brucellosis in Sub SaharaAfrica: Estimation of seroprevalence and impact on meat and milk off take potential. Food and Agriculture Organization. Livestock information and policy Branch*. AGAL.
- Maria, *et al.*, 2010. Faktor Risiko Bovine Brucellosis Pada Tingkat Peternakan Di Kabupaten Belu Propinsi Nusa Tenggara Timur., Journal article Indonesian, Journal of Veterinary Science.
- Martins, H., Garin-Bastuji, B., Lima, F., 2009. *Eradication of bovine brucellosis in the Azores, Portugal-Outcome of a 5-year programme (2002-2007) based on test-and-slaughter and RB51 vaccination*, Prev Vet Med. 90: 80-9.
- Martin, S.W., Meek, A.H., and Wilberg, P. 1987., *Veterinary Epidemiology : Principles and Methods*. Iowa State University Press, Ames.,
- Matope, G., Bhebhe, E., Muma, J.B., Oloya, J., Madekurozwa, R.L., Lund, A., Skjerve, E., 2011. *Seroprevalence of brucellosis and its risk factors in cattle*

- from smallholder dairy farms in Zimbabwe*. Trop. Anim. Health Prod. 43, 975–979.
- Matope, G., Bhebhe, E., Muma, J.B., Lund, A., Skjerve, E., 2011. *Risk factors for Brucella spp: infection in smallholder household herds*. Epidemiol. Infect. 139, 157–164.
- Maurice, A.N., Wungak, Y.S., Gana, A.B., Nanven, B.M., Ngbede, O.E., Ibrahim, A., Aworh, M.K., Konzing, L., Hambolu, E.S., Gugong, V.T., 2013. *Seroprevalence of bovine brucellosis in northern plateau state, North Central Nigeria*. Asian Pas. Trop. Dis. 3 (5), 337–340.
- Maurin, M., 2005. *Brucellosis at the dawn of the 21st century*. Medicine Et Maladies Infecteuses 35, 6–16.
- McDermott, J.J., Arimi, S.M., 2002. *Brucellosis in Sub-Saharan Africa: epidemiology: control and impact*. Vet. Microbiol. 90, 111–134.
- McDowell RE. 1972. *Improvement of Livestock Production in Warm Climate*. WH Freeman and Co. San Fransisco.
- McNeilly AS. 2001. *Reproduction, fertility, and development*. CSIRO Publishing 13:583-590.
- Miguel, M., Angel, M., Garcia, Arellano-Reynoso, B., Aparicio, E.D. & Jose E., 2013. *Milk yield and reproductive performance of brucellosis-vaccinated but seropositive Holstein cows*, Tropical Animal Health and Production ISSN 0049-4747, Trop Anim Health Prod, Vol. 45. Number 7.
- Megid, J., Mathuas., L.A., and Robles, C.A., 2010. *Clinical manifestation Of Brucellosis in Domestic Animals and humans*. The open veterinary science and jurnal. Vol.4. pp:1-4.
- Mergesa, B., Biffa, D., Niguse F., Rufael T., Asmare, K. dan Skjerve, E. 2011. *Cattle brucellosis in traditional livestock husbandary practise in southern and Easter Ethiopia, and Its Zoonotic implication*. Acta Veterinaria Scandinavica: 53-24.
- Mohammed FU, Ibrahim S, Ajogi I. Olaniyi BJO.2011. *Prevalence of Bovine Brucellosis and Risk Factors Assessment in Cattle Farms in Jigawa State*. International Scholarly Research Network ISRN Veterinary Science Vol: 2011, Article ID 132897, 4 pages doi:10.5402/2011/132897.
- Moran J. 2012. *Managing High Grade Dairy Cows in the Tropics*. Australia (AU): Csiro Publishing.

- Morris RS, and Dijkhuizen, AA., 1997., *Animal Health Economics Principles and Applications.*, ISBN, University Of Sidney.
- Mugizi, D., 2009. *Relationship between bovine brucellosis and production systems in Kashongi sub-county of Kiruhura-Uganda.* 57(3): 209-219.
- Musallam I, Abo-Shehadeh M, Omar M, Guitian J., 2015. *Cross-sectional study of brucellosis in Jordan: prevalence, risk factors and spatial distribution in small ruminants and cattle.* Prev Vet Med.;118(4):387–96.
<https://doi.org/10.1016/j.prevetmed.2014.12.020>.
- Naipospos, TS., Jatikusumah, A., Widyastuti, W., Nugroho, E., Dwibawa, R., Sunandar, dan Nurbiyanti, N., 2013. Masterplan Pemberantasan Brucellosis di Indonesia, , Kementan, Ausaid, Civas
- Ndazigaruye, G., Mushonga, B., Kandiwa, E., Samkange, A. and Basiamisi E., 2018. *Prevalence and risk factors for brucellosis seropositivity in cattle in Nyagatare District, Eastern Province, Afr. Vet Assoc.* 89: 1625.
- Neta, A.V.C., J.P.S. Mol, M.N. Xavier, T.A.Paixao, A.P. Lage, R.L. Santos. 2010.*Pathogenesis of Bovine brucellosis.* J Vet,184: 146-155
- Nicoletti, P., 2013. *Brucellosis in Cattle. (Contagious abortion, Bang's disease,* College of Veterinary Medicine. University of Florida.
- Noakes, D.E., T.J. Parkinson and G.C.W. England. 2009. *Arthur's Veterinary Reproduction and Obstetric.* Ed. W. B Saunders Co. Philadelphia. p483-486.
- Noor, S.M., 2006. Epidemiologi dan Pengendalian Brucellosis pada Sapi Perah di Pulau Jawa. Proceeding Lokakarya Nasional Ketersediaan IPTEK dalam Pengendalian Penyakit Strategis pada Ternak Ruminansia Besar.
- Noordhuizen, J., 2012. *Dairy Herd Health and Management .A guide for veterinarians and dairy professionals*
- Nurmalina R, Sarianti T, Karyadi A. 2014. Studi Kelayakan Bisnis. Bogor (ID): Fakultas Ekonomi dan Manajemen, Institut Pertanian Bogor.
- Office International et Epizootics [OIE]. 2004. *Terrestrial Animal Health Code.* OIE.
- Office International des Epizooties (OIE). 2009. *Bovine Brucellosis. Manual of Diagnostic Test and Vaccines for Terrestrial Animals.* Paris. 4(3): 564–567.
- Office International des Epizooties (OIE). 2020. *Brucellosis.* Animal Health in The Word., Paris. 4(3): 564–567.

- Olsen, S.C., Boyle, S.M., Schurig, G.G., Sriranganathan, N.N, 2009. *Immune responses and protection against experimental challenge after vaccination of bison with Brucella abortus strain RB51 or RB51 overexpressing superoxide dismutase and glycosyltransferase genes*. Clin Vaccine Immunol;16:535–540.
- Olsen, S.C., Johnson, C., 2011. *Comparison of abortion and infection after experimental challenge of pregnant bison and cattle with Brucella abortus strain 2308*. Clinical and Vaccine Immunology, 18:2075–2078.
- Pacheco, W. A., Genovez, M. E., Pozzi, C. R., Silva, L. M. P., S., Azevedo S., Did, C. C., Piatti, R. M., Pinheiro, E. S., Castro, V., Miyashiro, S., and Gambarini, M. L., 2012. *Excretion of Brucella abortus vaccine B19 strain during a reproductive cycle in dairy cows*. Braz J Microbiol. 43(2): 594–601.
- Panchasara H. *Economic implications of brucellosis in bovine*. Indian. J F Vet. 2012;8(1):19–21.
- Paixao, T.A., Poester, F.P., Carvalho-Neta, A.V., Borges, A.M., Lage, A.P., Santos, R.L., 2007. *NRAMP1 3' untranslated region polymorphisms are not associated with natural resistance to Brucella abortus in cattle*. Infection and Immunity, 75, 2493–2499 Magersa.
- Panus, A., Monayae., Peter, B., Indrayani, I., Idis, S., 2016. *Seroprevalence and Risk Factors for Bovine Brucellosis in Daerah Khusus Ibukota*, Disease Investigation Center (DIC) Subang, Indonesia,
- Parkison, T.J., 2010. *Spesific infectious disease causing infertility and subfertility in cattle, Veterinary and obstetrics*. Ninth edition., Saunders Elsilver.
- Patel, M.D., P.R., Patel, M.G., Prajapati, A.N., Kanani, K.K., Tyagi and Fulsounda, A.B., 2014. *Prevalence and risk factor's analysis of bovine brucellosis in peri-urban areas under intensive system of production in Gujarat, India*, Vet. World, Vol.7 (7): 2231-0916.
- Pathak, A.D., Dubal, Z.B., Karunakaran, M., Doijad, S.P., Raorane, A.V., Dhuri, R.B., Bale, M.A., Chakurkar, E.B., Kalorey, D.R., Kurkure, N.V. and Barbuddhe, S.B., 2016. *Comp. Immunol. Microbiol. Infect. Dis.*, 47: 1-6.
- Pappas G, Javier S, Nikolaos A, Epameinondas T. 2005. *New approaches to the antibiotic treatment of brucellosis*. Int J Antimicrob Agents 26 :101–105.
- Petersen E, Rajashekara G, Sanakkayala N, Eskra L, Harms J, Splitter G. . 2013. *Erythritol triggers expression of virulence traits in Brucella melitensis*. Microbes and Infection; Preventive Veterinary Medicine.;21:289-297.

- Pelczar Jr. and Michael J., 2005., *Dasar-Dasar Mikrobiologi.*, Universitas Indonesia Press.
- Poester. FP, Samartino.LE, Santos.RL. 2013. *Pathogenesis and Pathobiology of Brucellosis in Livestock*. Instituto de Patobiología, Instituto Nacional de Tecnología Agropecuaria (INTA). Argentina
- Priyanti, Atien., Sudi Nurtini, dan Achmad Firman. 2009. *Analisis Ekonomi dan Aspek Sosial Usaha Sapi Perah*. Pusat Penelitian dan Pengembangan Peternakan. Bogor.
- Prahasta, Eddy, 2001. *Konsep-Konsep Dasar Sistem Informasi Geografis*. CV Informatika, Bandung.
- Prahasta, Eddy, 2002. *Sistem Informasi Geografis : Tutorial ArcView*. CV Informatika, Bandung.
- essang, A.A. 1984. *Patologi Khusus Veteriner*. Institut Pertanian Bogor. Bogor
- Putra, A.A.G., Arsani, and Sudianta. *Brucellosis, Program, dan Evaluasi Pemberantasan di Pulau Lombok, Nusa Tenggara Barat*. Balai Penyidikan dan Pengujian Veteriner Regional VI Denpasar. 2002.
- Putt, S.N.H., Shaw., A.P.M, Woods, A.J., Tyler, L., and James, A.D., 1988., *Veterinary Epidemiology and Economics In Africa.*, Internasional Livestock Center For Africa.
- Quinn, P.J., B.K. Markey, M.E. Carter, W.L. Donnely and F.C. Leonard. 2002. *Veterinary Microbiology and Microbial Disease*. Blackwell Publicshing. Great Britain. 162-167.
- Raharjo, B. & Ikhsan, M., 2015. *Belajar ArcGIS Desktop 10: ArcGIS 10.2/10.3*. Geosiana Press. Banjarbaru
- Ratih R., D. Handijatno, Suwarno, dan F.A. Rantam, 2014. *Determinan Antigen Gen omp2a Brucella abortus Isolat Lokal*. Fakultas Kedokteran Hewan. ACTA Vet Indonesia, 2(1): 17-25.
- Ressang, A.A. 1984. *Patologi Khusus Veteriner*. Institut Pertanian Bogor. Bogor.
- Reviriego FJ, Moreno MA, Domínguez L. 2000. *Risk factors for brucellosis seroprevalence of sheep and goat flocks in Spain*. Preventive Veterinary Medicine.;44:167-173.
- Ruston, J., *The economic Of Animal Health And Production.*, UK MPG Books Ltd., British Library London, UK.

- Sagamiko, *et al.*, 2018 *Sero-prevalence of Bovine Brucellosis and associated risk factors in mbeya region, Southern highlands of Tanzania*, School of Veterinary Medicine, University of Zambia, P.O. Box 3239, Lusaka, Zambia.
- Salman, M.D. 2004, *Controlling Emerging Disease and in The 21 st Century*. Preventive veterinary Medicine.
- Sanogo M, Abatih E, Thys E, Fretin D, Berkvens D, 2012. *Risk factors associated with brucellosis seropositivity among cattle in the central savannah-forest area of Ivory Coast*. Prev Vet Med 107: 51–56.
- Salisbury, G.W. dan N.L. Van Demarck. 1961. *Physiology of reproduction and Artificial*
- Samaha, H., Mohamed, T.R., Khoudair, R.M. & Ashour, H.M., 2009. *Serodiagnosis of brucellosis in cattle and humans in Egypt*, Immunobiology, 214 (3):223–226.
- Samartino L., 2002. Brucellosis in Argenti, Veterinary Microbiology 90(1-4):71-80.
- Salmani., 2009, *Serological Evaluation of Brucella abortus S99 Lipopolysaccharide Extracted by an Optimized Method*, American journal of infectious diseases 5(1) • with 165 Reads DOI: 10.3844/ajidsp.pp2-4.
- Samkhan, Purnomo, P.D., Susanta, D.H., Ikaratri, R., Niati, S., Parmini, T., Isnaini, M.F., 2011. Hasil Survei Seroepidemiologi Brucellosis pada Sapi Potong di Madura Tahap I. Tahun 2011. http://bbvetwates.com/upload/perpustakaan/Edisi_II_Vol_12_Nomor_1.pdf.
- Santos, Rd. L., Martins., TM., Borges, AM., Paixao, T., 2013. *Economic Losses Due to Bovine Brucellosis in Brazil*. Pesq. Vet. Bras. vol.33 no.6
- Satria, R.G.D., 2017 Konsep Dasar dan cara Praktis belajar Analisis Statistik dengan SPSS., PT. Global Byakta Waylaay., Yogyakarta.
- Schelling E, Diguimbaye C, Daoud S, Nicolet J, Boerlin P, Tanner M and Zinsstag J. 2003 *Brucellosis and Q-fever seroprevalences of nomadic pastoralists and their livestock in Chad*. Journal of Preventive Veterinary Medicine 61: 279 – 293.
- Sharma, H.K., S.K. Kotwal, D.K. Singh, M.A. Malik, A. Kumar, R. Gunalan, and M. Singh. 2016. *Seroprevalence of Human Brucellosis and Around Jammu, India, Using Different Serological Tests*. Vet World, 9(7):42-46.

- Shahzad, A, Akhter, S., Neubauer, H., Melzer, F., Khan, Abatih, E.N., El-Adawy, H., Irfan, M., Muhammad, A., Akbar, M.W., Umar, S., Ali, Q., Iqbal, M.N., Mahmood, M. and Ahmed, H., 2019. *Seroprevalence and risk factors associated with bovine brucellosis in the Potohar Plateau, Pakistan., US Nasional library of medicine national institute of health, PMC. V10: 73.*
- Sierdzinska, RA, *et al.*, 2013., *Age and productivity. Human capital, accumulation and depreciation*, Neujobs Working Paper No. 17.2.
- Sikder, S., AKMA Rahman, Faruque, M.R., Alim, M.A., Das, S., Gupta, A.D., Das, B.C., Uddin, M.I. and Prodhan, M., 2012. *Bovine brucellosis: an epidemiological study at Chittagong, Bangladesh.*
- Silva, T.I.Bd., Moraes, R.Sd., Santos, Pd.S., Reckziegel, G.H., Gomes, Y.A., Melchior, L.A.K., Fernandes, A.d.D., Filho, L.C.F.B., Silva, D.Dd., Revoredo, R.G., Melo, L.E.Hd., 2018. *Analysis of the risk factors for bovine brucellosis in dairy herds of the Rio Branco microregion, Acre, Brazi, Annual Review of Microbiology. Annual Review Inc. Paio Alto, California. Vol.39.*
- Singh, B.B., Dhand, N., Gill, GPS., 2015. *Economic losses occurring due to brucellosis in Indian livestock populations.* Preventive Veterinary Medicine 119(3-4)
- Singh, B. and Prasad, S., 2008, *Modelling of Economic Losses due to Some Important Diseases in Goats in India*, Agriculture Economics Research Review. Vol. 21 july-December 2008 pp 297-302.
- Smirnova, E.A., Vasin, A.V., Sandybaer, N.T., Klotchenko, S.A., Plotrikova, M.A., Chervyakova, O.V., Sanryzbay, A.R., Kiselev, O.I., 2013. *Current methods of human and animal brucellosis diagnosis.* Adv. Infect. Dis. 3, 177–184.
- Starr, T., T.D. Wherly, L.A. Knodler, J. Celli., 2008. *Brucella intercellular replication requires trafficking through the late endosomal/lysosomal compartment.* Traffic. Pub Med, (9): 678-694.
- Stedman, T.L., 1989. *Stedman Medical Dictionary*, 25 th edn., Williams and Wilkins, Baltimore.
- Subri, M., 2003. *Ekonomi Sumber daya Manusia*. Jakarta: PT. Raja Grafindo Persada.
- Subronto. 1995. *Ilmu Penyakit Ternak*. Gadjah Mada University Press, Yogyakarta.
- Subronto. 2008. *Ilmu Penyakit Ternak 1-b (Mamalia)*. Gadjah Mada University Press, Yogyakarta.

- Sudarwanto, M. 2000. Brucellosis Juga Jangan Ditutup-tutupi. *Infofet* 68:20-21.
- Sudibyo, A. and B. Patten. 1989. *The use of an enzyme-linked immunosorbent assay (ELISA) for the diagnosis of brucellosis in cattle in Indonesia*. *Penyakit Hewan* 21(37):18-21.
- Sudibyo, A. 1994. Studi brucellosis dan kamkterisasi protein antigenik *Brucella abortus* isolat lapang pada sapi perah. Tesis Magester Sain . Program Pascasarjana Institut Pertanian Bogor.
- Sudono A, Rosdiana RF, Setiawan BS. 2003. *Beternak Sapi Perah Secara Intensif*. Cetakan ke-2. AgroMedia Pustaka, Bogor
- Sugiyono. 2009. *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Bandung. Alfabeta.
- Sulaiman I, B Poermadjaya. 2004. Paper: Uji Lapang Keamanan Vaksin *Brucella abortus* strain RB51 pada Sapi Perah di Kecamatan Cisarua, Bogor. Pertemuan Evaluasi emberantasan Brucellosis dan Pengawasan Lalulintas Ternak dan Daging Provinsi DKI Jakarta di Cianjur.
- Sumiarto, B. dan Budiharta, S, 2018, *Epidemiologi Veteriner Analitik*, Gadjah Mada University Press Pebruari 2018, (79, 147-151, 261-272).
- Stankovic.B, Hristov.S, Zlatanovic.Z, Bojkovsk.J, Maksimovic.N., 2016. *Sustainability and efficiency dairy farms biosecurity plans*. *Agro-knowledge journal*.4:437-453.
- Statistix 8, 2003., *Statistik 8 Analitical Software User manual*.
- Stringer LA, Guitian FJ, Abernethy DA, Honhold NH, Menzies FD. 2008. *Risk associated with animals moved from herds infected with brucellosis in Northern Ireland*. *Prev Vet Med.*;84:72–84. <https://doi.org/10.1016/j.prevetmed.2007.11.005>.
- Supartono. 2004. Isolasi dan Identifikasi *Brucella abortus* penyebab keguguran pada sapi. Prosiding Temu Teknis Nasional Tenaga Fungsional Pertanian. Balai Penelitian Veteriner. Bogor.
- Talaro, K.P., and Talaro, A., 2002. *Foundation in Microbiology*. 4th ed. E-book. www.mhhe.com/primis/online. ISBN 0-07-248864-6.
- Tapehe, Y., 2002., *Statistika Dan Rancangan Percobaan.*, Penerbit Buku Kedokteran EGC., Jakarta.

- Tasaime, W., Emikpe, B., Folitse, R., Fofie, C., Burimuah, V., Johnson S., 2016. *The prevalence of brucellosis in cattle and their handlers in North Tongu District, Volta Region, Ghana*, African Journal of Infectious Diseases. 10(2): 111–117.
- Tatiana, FA., 2017. *Biosecurity In Dairy Farms*. Facultat de veterinaria.Barcelona.pp.1-2.
- Tebug, S.F. (2013) *Factors associated with milk producer's awareness and practices in relation to zoonoses in northern Malawi*. 6(5): 249-253.
- The Center for Food Security and Public Health (CFSPH), 2009. *Brucellosis*. IOWA State University, College of Veterinary Medicine, Ames–Iowa, pp. 2.
- Tizard. I., 1982., *Imunology Veterinary.*, Edisi kedua, Guelph University, Ontario, London.
- Trisnadi, 2015, Penyakit Brucellosis Pada Sapid dan Hewan Lain <https://karyadrh.blogspot.com/2015/07/penyakit-brucellosis-pada-sapi-dan.html>.
- Todar, K. 2008. *Textbook of Bacteriology. University of Wisconsin. Science Magazine*. p304.
- Toelihere, M. R. 1993. Inseminasi buatan pada ternak. Penerbit Angkasa. Bandung
- Tono, K.P.G., and Suarjana, I.G.K. Ilmu Penyakit Bakterial. Fakultas Kedokteran Hewan Universitas Udayana. Denpasar, Bali. 2008.
- Trhusfield, M. 2005.*Veterinary Epidemiology*. Third Edition. Blackwell Science., British.
- Trhusfield, M. 2007.*Veterinary Epidemiology*. Third Edition. Blackwell Science., British.
- Ullah, Q., Jamil, H., Lodhi, L.A., Qureshi, Z.I., Ullah, S., Jamil, T., Khan, I., Bashir, S., Qudratullah, Wazir, I., Sallam, M.A. and Zubair, M., 2019. *Brucellosis is Signi□cantly Associated with Reproductive Disorders in Dairy Cattle of Punjab, Pakistan.*, J. Zool., vol. 51(5), pp 1995-1997.
- Utami, S., dkk, 2004. Manajemen Ternak Perah. Fakultas Peternakan., Universitas Jendral Soedirman.Purwokerto.
- Van Campen H, Rhyan J. 2010. *The role of wildlife in diseases of cattle*. Vet Clin North Am Food Anim Pract.;26:147–161.

- Walker, R.L., 1999., *Brucella Chapter 37 In Veterinary Microbiology.*, Blackwell Science Pty, Ltd.
- Widyaningrum, AA., 2018., *Beternak Sapi Perah.*, Pustaka Baru, Yogyakarta.
- Wilcock dan Manson-Bahr. 1984. *Manson's Tropical Disease.* Bailliere-Tindal, London.
- World Health Organization, Food and Agriculture Organization of the United Nations & World Organization for Animal Health , 2004. *Report of the WHO/FAO/OIE joint consultation on emerging zoonotic diseases.* Geneva: World Health Organization.
- World Health Organization, Food and Agriculture Organization of the United Nations & World Organization for Animal Health, 2005. *Report of the WHO/FAO/OIE joint consultation on emerging zoonotic diseases,* Geneva: World Health Organization.
- World Health Organization . 2006. *Brucellosis in Humans and Animals.* WHO Library Cataloguing -in-Publication Data. WHO Press.
- World Health Organization, Food and Agriculture Organization of the United Nations & World Organization for Animal Health, 2020. *Report of the WHO/FAO/OIE joint consultation on emerging zoonotic diseases.* Geneva: World Health Organization.
- Widiasih, D.A. dan S.Budiharta., 1984. *Epidemiologi zoonosis di Indonesia,* Gadjah Mada University Press., Hal. 431 Wilcock dan Manson-Bahr.. *Manson's Tropical Disease.* Bailliere-Tindal, London.
- Zeng, J., Duoji, C., Yuan, Z., Yuzhen, S., Fan, W., Tian, L., 2017. *Seroprevalence and risk factors for bovine brucellosis in domestic yaks (Bos grunniens) in Tibet, China.* Tropical Animal Health and Production. 49(7): 1339–1344.