

DAFTAR PUSTAKA

- Abdelghafar, R. M., Bakhied, A. O. dan Ahmed, B. H. 2007. B-Mode Real-Time Ultrasonography for Pregnancy Diagnosis and Fetal Number in Saanen Goats. *Journal of Animal and Veterinary Advances*. Vol. 6 (5): 702-705.
- Anisa, E., Ondho, Y.S., dan Samsudewa, D. 2017. Pengaruh body condition score (BCS) berbeda terhadap intensitas birahi sapi induk simmental peranakan ongole (SIMPO). *Jurnal Sain Peternakan Indonesia*. Vol. 12(2). Hal: 133-141.
- Anonim. 2012. Penetapan Rumpun Sapi Peranakan Ongole. *Keputusan Menteri Pertanian Nomor 2841/Kpts/LB/430/8/2012*.
- Anonim. 2015. Bibit Sapi Potong Peranakan Ongole. *SNI 7651.5:2015*. Badan Standarisasi Nasional.
- Anonim. 2020. *Produksi Daging Sapi menurut Provinsi*. <https://www.bps.go.id/indicator/24/480/1/produksi-daging-sapi-menurut-provinsi.html>.
- Anonim. 2021. *Kulon Progo dalam Angka*. BPS Kabupaten Kulon Progo.
- Aryogi, Baliarti, E., Sumadi, dan Kustono. 2013. Pengaruh genotip *Bos taurus* terhadap performans fisiologi dan reproduksi sapi silangan SimPO dan LimPO induk di Dataran Rendah. *Seminar Nasional Teknologi Peternakan dan Veteriner*. 41-48.
- Bakhtiar, Yusmadi, dan Jamalilah. 2015. Kajian performans reproduksi sapi Aceh sebagai informasi dasar dalam pelestarian plasma nutfah genetik ternak lokal. *Jurnal Ilmiah Peternakan*. Vol 3(2): 29-33.
- Baliarti, B., Panjono, Widi, S.T.M., Yulianto, D.E.Y., Ali, M.H., Atmoko, B.A., Maulana, H., Effendhy, J., Prihandini, P.W., dan Pamungkas, D. 2019. Tingkah laku seksual pejantan dan induk sapi Peranakan Ongole dengan sistem perkandangan koloni terbatas. *Prosiding. Seminar Nasional Teknologi Peternakan dan Veteriner*.
- Ball, P.J.H., dan Peters, A.R. 2004. *Reproduction in Cattle 3thed*. Blackwell Publishing. Australia.
- Barr, F. 1990. *Diagnostic Ultrasound in the Dog and Cat*. Blackwell Scientific Publications. Oxford.

- Bhaskara, A.P., Suprayogi, T.W., Roesno, D., Srianto, P., Hariadi, M., dan Sardjito, T. 2018. *Conception rate* dan *service per conception* pada sapi peranakan *Limousin* dan sapi Peranakan Ongole hasil IB di Kecamatan Pilangkenceng Kabupaten Madiun. *Ovozoa*. Vol. 7(2). Hal: 152-155.
- Blakely, J. dan Blade, D.H. 1998. *Ilmu Peternakan*. Cetakan ke 4. Gadjah Mada University Press. Yogyakarta.
- Boer, H.M.T., Veerkamp, R.F., Beerda, B., Woelders, H. 2010. Estrous nehavior in dairy cows: identification on underlying mechanisms and gene function. *Animal*. Vol. 3(4). Hal: 446-453.
- Briggs, R., dan Rood, K.A. 2021. Heat stress and reproduction in beef cattle. *Extension Utah State University*. Hal: 1-7.
- Budiyanto, A., Tophianong, T.C., Triguntoro, Dewi, H.K. 2016. Gangguan reproduksi sapi bali pada pola pemeliharaan semi intensif di daerah sistem integrasi sapi-kelapa sawit. *ACTA Vet. Indo*. Vol 4(1). Hal: 14-18.
- Crowe, M.A., dan Mullen, M.P. 2013. Regulation and function of gonadotropins throughout the bovine oestrous cycle. *Intech*. Hal: 143-154.
- Day, M.L., dan Nogueira, G.P. 2013. Management of age at puberty in beef heifers to optimize efficiency of beef production. *Animal Frontier*. Vol. 3(4): 6-11.
- Day, M.L., Imakawa, K., Wolfe, P.L., Kittok, R.J. 1987. Endocrine mechanism of puberty in heifers. Role of hypothalmo-pituitary estradiol receptors in the negative feedback of estradiol on luteinizing hormone secretion. *Biology of Reproduction*. Vol. 37. Hal: 1054-1065.
- Dayyani, D., Karkudi, K., dan Bakhtiari, H. 2013. Reproductive performance definition in dairy cattle: affective factors. *Int. J. of Adv. Bio. and Biomed. Res*. Vol. 1(11). Hal: 1392-1396.
- Dwitarizki, N.D., Achadi, Y., dan Tyasari, F.G. 2018. Pengaruh *body condition score* terhadap *service per conception* dan gangguan reproduksi pada sapi peranakan ongole dan simmental. *Agronomika*. Vol. 12(2). Hal: 140-146.
- Diwyanto, K., dan Inounu, I. 2009. Dampak *crossbreeding* dalam program Inseminasi Buatan terhadap kinerja reproduksi dan budidaya sapi potong. *Wartazoa*. Vol. 19(2). Hal: 93-102.

- Docke, F., Rohde, W., Gerber, P., dan Kreuz, G. 1984. Medial preoptic area, estrogen, and peripubertal desensitization to the negative estrogen feedback in female rats. *Neuroendocrinology*. Vol. 43. Hal 46-52.
- Duittoz, A.H., Tillet, Y., Le Bourhis, D., dan Schibler, L., 2016. The timing of puberty (oocyte quality and management). *Anim. Reprod*. Vol. 13(3): 313-333.
- Evans, A.C.O., Adams, G.P., dan Rawlings, N.C. 1994. Endocrine and ovarian follicular changes leading up to the first ovulation in pubertal heifers. *Journal of Reproduction and Fertility*. Vol 100: 187-194.
- Flower, W. L. 1999. *Real-time Ultrasonography and Pregnancy Diagnosis in Swine*. <http://jas.fass.org/content/77/ESuppl/1.38.full.pdf+html?sid=9b61df10-7475-46f5-95b6-aedc76a97fde>.
- Fortune, J.E., dan Quirk, S.M. 1988. The growth and differentiation of ovarian follicles during the bovine estrous cycle. *Theriogenology*. Vol 29(1): 95-109.
- Frandsen, R. D., Wilke, W. L., dan Fails, A. D. 2003. *Anatomy and Physiology of Farm Animal*. Edisi ke 7. Philadelphia, Lippincott, Williams and Wilkins.
- Frastantie, D., Agil, M., dan Tumbelaka, L.I. 2019. Deteksi kebuntingan dini pada sapi perah dengan pemeriksaan *ultrasonography* (USG) dan analisis hormon steroid. *ACTA Vet.Indo*. Vol.7(2). Hal: 9-16.
- Funston, R.N., Martin, J.L., Larson, D.M., dan Robert, A.J. 2012. Physiology and endocrinology symposium: nutritional aspect of developing replacement heifers. *J. Anim. Sci*. Vol \. 90. Hal: 1166-1177.
- Gilchrist, R.B., Luciano, A.M., Richani, D., Zeng, H.T., Wang, X., De Vos, M., Sugimura, S., Smitz, J., Richard, F.J., dan Thompson, J.G. 2016. Oocyte maturation and quality: role of cyclic nucleotides. *Reproduction*. Vol 152. Hal: 143-157.
- Grass, J.A., Hansen, P.J., Rudledge, J.J., dan Hauser, E.R. 1982. Genotype x enviromental interaction on reproductive traits of bovine females.I. Age at puberty as influence by breed, breed sire, dietary regimen and season. *J. Anim. Sci*. Vol. 55. Hal: 1441-1457.
- Gross, J.J., Kessler, E.C., Albrecht, C., dan Bruckmaier, R.M. 2015. Response of the cholesterol metabolism to a negative energy balance in dairy cows depends on the lactational stage. *PLOS One*. Vol. 10(6). Hal: 1-17.

- Hadi, P. U. dan Ilham, N. 2002. Problem dan Prospek Pengembangan Usaha Pembibitan Sapi Potong. *Jurnal Litbang Pertanian*, volume 4 (21): 149.
- Hafez, E.S.E. 2000. *Reproduction in Farm Animals*. 7th ed. Baltimore (US): Lippincott Williams & Wilkins, Philadelphia.
- Hamdani, M.D.I., Ismaya, dan Kustono. 2008. Hubungan antara berat badan sapi betina Peranakan Ongole dan Sapi Persilangan pada tingkat umur yang berbeda terhadap ukuran dan karakteristik ovariumnya. *Buletin Peternakan*. Vol. 32 (2): 91-102.
- Hartigan, P.J. 1995. *Cattle Breeding dan Infertility, in Animal Breeding and Infertility*. Meredith, M.J. Blackwell Science. China.
- Hastuti, I. 2007. Karakteristik *exterior* sapi betina hasil silangan antara Simmental dan Limousin dengan Sapi PO di Kabupaten Bantul. *Skripsi*: Universitas Gadjah Mada, Yogyakarta.
- Hauser, E.R. 1984. Seasonal effect on female reproduction in the bovine (*Bos taurus*) (european breeds). *Theriogenology*. Vol. 21. Hal: 150-169.
- Hidayatik, N., Yusuf, T.L., Agil, M., Iskandar, E., dan Sajuthi, D. 2018. Validasi analitik Kit ELISA komersial untuk mengukur metabolit estrogen dan progesteron pada feses *Tarsius* (*Tarsius spectrum*). *Acta Veyerinaria Indonesiana*. Vol. 6 (1): 1-7.
- Hopper, R.M. 2015. *Bovine Reproduction*. Willey Blackwell. India.
- Ihnatsenka, B., dan Boezaart, A.P. 2010. Ultrasound: basic understanding and learning the language. *Inter. Jour.Shoulder Surgery*. Vol 4(3): 55-62.
- Ibtisham, F., Nawab, A., Li, G., Xiao, M., An, L., dan Naseer, G. 2018. Effect of nutrition on reproductive efficiency of dairy animals. *Med. Weter*. Hal: 1-6.
- Iskandar. 2011. Performan Reproduksi Sapi PO pada Dataran Rendah dan Dataran Tinggi di Provinsi Jambi. *Jurnal Ilmiah Ilmu-Ilmu Peternakan*, Vol. 14 (1). Hal: 51-61.
- Jaenudin, D., Amin, A.A., Setiadi, M.A., Sumarno, H., dan Rahayu, S. 2018. Hubungan temperatur, kelembaban, dan manajemen pemeliharaan terhadap efisiensi reproduksi sapi perah di Kabupaten Bogor. *ACTA Vet. Indo*. Vol. 6(1). Hal: 16-23.

- Jenkins, T.G., dan Ferrell, C.L. 1982. Lactation curves of mature crossbred cows: Comparasion of four estimating functions. *J.Anim.Sci.* Vol. 54(1). Hal: 189.
- Johnston, D.J., Barwick, S.A., Corbet, N.J., Fordyce, G., Holroyd, R.G., Williams, P.J., dan Burrow, H.M. 2009. Genetics of heifer puberty in two tropical beef genotypes in northern Australia and associations with heifer- and steer-production traits. *Animal Production Science.* Vol. 49. Hal: 399-412.
- Keskin, A., Mecitoglu, G., Bilen, E., Guner, B. 2016. The Effect of Ovulatory Follicle Size at the Time of Insemination on Pregnancy Rate in Lactating Dairy Cows. *Turkish Journal Veterinary and Animal Sciences.* 40: 68-74.
- Koost, K.R., Gibson, J.P., Smith, C., dan Wilton, J.W. 1994. Analyses of published genetic parameters estimates for beef production traits. *Anim. Breed.* Vol. 62. Hal: 309-338.
- Kristahun, J., Pudjihastuti, E., Paputungan, U., dan Turangan, S. 2020. Penampilan performa reproduksi sapi Peranakan Ongole (PO) di Kecamatan Dumoga Kabupaten Bolaang Mongondow. *Zootec.* Vol. 40(2). Hal: 735-745.
- Laksmi, D.N.D.I., dan Trilaksana, I.G.N.B. 2020. Change in sxternal genital and estrogen level of Cali Cattle during estrus. *JVAS.* Vol. 3(1). Hal: 40-50.
- Lamb, G.C., Bischoff, K.M., Black, T.E., Mercadante, V.R.G., Marquezini, G.H.I., Cooke, R.F., dan DiLorenzo, N. 2011. Management implication associated with the onset of puberty and persistance of estrous cycles in beef heifers. *J. Anim. Sci.* Vol 89. Hal: 494.
- Mayes, M. 2002. The meiotic arrest of bovine oocyte. *Thesis.* Laval University.
- Meikle, A., de Brun, V., Carriquiry, M., Soca, P., Sosa, C., Adrien, M.L., Chilibroste, P., dan Abecia, J.A. 2018. Influences of nutrition and metabolism on reproduction of female ruminant. *Anim. Reprod.* Vol. 15 (1). Hal: 899-911.
- Mossa, F., Berlinguer, F., Succu, S., Madeddu, M., Bebbere, D., Leoni, G.G., dan Naitana, S. 2007. Follicle number affects in vitro developmental competence of sheep oocytes. *Biol. Reprod.* Vol. 2 (7): 1-7.
- Noakes, D.E., Parkinson, T.J., dan England, G.C.W. 2002. *Arthur's Veterinary Reproduction and Obstetrics* 8th ed. W.B. Saunders. China.

- Noseir, W.M.B. 2003. Ovarian follicular activity and hormonal profile during estrous cycle in cows: the development of 2 versus 3 waves. *BioMed Central*. Vol 1 (1). Hal: 1-6.
- Nuryadi, dan Wahjuningsih, S. 2011. Penampilan Reproduksi Sapi Peranakan Ongole dan Peranakan Limousin Di Kabupaten Malang. *Jurnal Tropika*. Vol. 12 (1). Hal: 76-81.
- Payne, A.H., dan Hales, D.B. 2004. Overview of steroidogenic enzyme in pathway from cholesterol to active steroid hormones. *Endocrine Reviews*. Vol 25(6). Hal: 947-970.
- Pereira, G.R., Barcellos, J.O.J., Sessim, A.G., Tarouco, J.U., Neto, J.B., Prates, E.R., dan Canozzi, M.E.A. 2017. Relationship of post-weaning growth and age at puberty in crossbreed beef heifers. *Brazil.J.Anim.Sci*. Vol. 46(5). Hal: 413-420.
- Pierson, R.A., Kastelic, J.P., dan Ginther, O.J. 1988. Basic principles and techniques for transrectal ultrasonography in cattle and horses. *Theriogenology*. Vol. 29(1). Hal: 3-20.
- Prasdinil, W.A., dan Indarwati, R. 2018. Kajian profil performan reproduksi sapi potong di sentra peternakan rakyat (SPR) Kecamatan Temayang, kabupaten Bojonegoro, Jawa Timur. *Jurnal AgroSainTa*. Vol. 1. Hal: 112-119.
- Prasetyo, Y., Hartono, M., dan Siswanto. 2015. *Calving interval* sapi perah laktasi di Balai Besar Pembibitan Ternak Unggul dan Hijauan Pakan Ternak (BBPTU-HPT) Baturraden Purwokerto Jawa Tengah. *Jurnal Ilmiah Peternakan Terpadu*. Vol. 3(1). Hal: 7-14.
- Priyo Jr, Topas., Budiyanto, A., Kusumawati, A. 2020. Pengaruh Ukuran Ovarium dan Folikel Terhadap Penampilan Reproduksi pada Sapi Po dan Simpo di Kecamatan Jatinom, Kabupaten Klaten. *Jurnal Sain Veteriner* 38(20).
- Putro, P.P. 2009. Dampak *crossbreeding* terhadap reproduksi induk turunannya: hasil studi klinis. *Lokakarya Lustrum VIII Fakultas Peternakan Universitas Gadjah Mada*.
- Ramirez, D.V., dan McCann, S.M. 1963. Comparison of the regulation of luteinizing hormone (LH) secretion in mature and adult rats. *Endocrinology*. Vol. 72. Hal 452-464.
- Richard, M.H. 2015. *Bovine Reproduction*. John Willey & Sons, Inc. Iowa.

- Richard, M.W., Wettemann, R.P., Spicer, L.J., dan Morgan, G.L. 1991. Nutritional anestrus in beef cows: effect of body condition and ovariectomy on serum luteinizing hormone and insuline-like growth factor-I¹. *Biol. Reprod.* Vol. 44. Hal: 961-966.
- Rohayati, T., dan Christi, R.F. 2017. Penampilan reproduksi sapi peranakan ongole dara. *Jurnal Ilmu Peternakan.* Vol 1(2): 7-14.
- Romano, J.E., Thompson, J.A., Forrest, D.W., Westhusin, M.E., Tomaszewski, M.A., dan Kraemer, D.C. 2006. Early pregnancy diagnosis by transrectal ultrasonography in dairy cattle. *Theriogenology.* Vol 66(4). Hal: 1034-1041.
- Rudolf, F.O. 2010. Puberty in beef heifers: a revirew. *Jurnal Ilmu Peternakan.* Vol. 5. Hal: 20-27.
- Rudolf, F.O. 2010. Tingkat kebuntingan sapi potong di Manokwari: pengaruh sistem pemeliharaan. *Jurnal Ilmu Peternakan.* Vol. 5 (2). Hal: 118-124.
- Sarwono, B., dan Arianto. 2003. *Penggemukan Sapi Potong secara Cepat*. Penebar Swadaya. Jakarta.
- Short, R.E., Bellows, R.A., Moody, E.L., dan Howland, B.E. 1990. Breeding heifers on one years of age: biological and economic consideration. *Proceding: 39th Annu. Beef Cattle Short Course.* Univ. of Florida. Hal: 93-106.
- Snelling, W.M., Cushman, R.A., Fortes, M.R.S., Reverter, A., Bennett, G.I., Keele, J.W., Kuehn, L.A., McDanel, T.G., Thallman, R.M., dan Thomas, M.G. 2012. Physiology and endocrinology symposium: how single nucleotide polymorphism chips will advance our knowledge of factor controlling puberty and aid in selecting replacement beef females. *J. Anim. Sci.* Vol. 90. Hal: 1152-1165.
- Sood, P., Zachut, M., Dube, M., dan Moallem, U. 2015. Behavioral and hormonal pattern of repeat breeder cows around estrus. *Society for Reprod. And Fertility.* Vol. 149 (6). Hal 545-554.
- Sousa, L.M.M.C., Compos, D.B., Buratini Jr, J., Binelli, M., Papa, P.C. 2008. Growth factors and steroidogenesis in the bovine placenta. *J. Anim. Reprod.* Vol 5 (1). Hal:3-15.
- Souza, A. H., Cunha, A. P., Caraviello, D. Z., Wiltbank, M. C. 2005. Profile of Circulating Estradiol-17 β After Different Estrogen Treatments in Lactating Dairy Cows. *Animal Reproduction.* Vol.. 2(4): 224-232.

- Sumadi. 2009. Sebaran populasi, peningkatan produktivitas dan pelestarian sapi potong di Pulau Jawa. *Pidato Pengukuhan Jabatan Guru Besar dalam Bidang Produksi Ternak pada Fakultas Peternakan UGM*.
- Supriyanto. 2016. Faktor-faktor yang memengaruhi keberhasilan program inseminasi buatan (IB) pada ternak sapi potong. *Jurnal Triton*. Vol. 7(2). Hal: 69-84.
- Sutiyono, Samsudewa, D., dan Suryawijaya, A. 2017. Identifikasi gangguan reproduksi sapi betina di peternakan rakyat. *J.Vet*. Vol. 18(4). Hal 580-558.
- Takahashi, M. 2012. Heat stress on reproductive function and fertility in mammals. *Reprod. Med. Biol.* Vol. 11. Hal 37-47.
- Tiro, B.M.W., Tirajoh, S. Beding, P.A., dan Baliarti, E. 2020. Siklus estrus dan profil hormon reproduksi induk sapi Peranakan Ongole dan silangan Simmental-Peranakan Ongole. *Jurnal Pertanian Agros*. Vol 22 (2): 105-112.
- Torres, A.M., Sánchez, A.G., dan Aguilar, C.G. 2012. Review: follicular development in domestic ruminant. *Tropical and Subtropical Agroecosystems*. Vol 12. Hal: 147-160.
- Trifena, Budisatria, I.G.S., dan Hartatik, T. 2011. Perubahan fenotip sapi Peranakan Ongole, SimPO, dan LimPO pada keturunan pertama dan keturunan kedua (*Backcross*). *Buletin Peternakan*. Vol. 35(1). Hal: 11-16.
- Utami, K.B., dan Riyanto. 2018. *Buku Ajar Produksi Ternak Potong Besar*. Pusat Pendidikan Pertanian Kementerian Pertanian. Jakarta.
- Wahiduddin, M. 2008. Dokter Kandungan Sapi: Dokter Hewan Anda. <http://koranpdhi.com?buletin-edisi8/edisi8-doksapi.html>.
- Yulyanto, C.A., Susilawati, T., dan Ihsan, M.N. 2015. Penampilan reproduksi sapi Peranakan Ongole (PO) dan sapi Peranakan Limousine di Kecamatan Sawoo Kabupaten Ponorogo dan Kecamatan Tugu Kabupaten Trenggalek. *Jurnal Ilmu-Ilmu Peternakan*. Vol. 24(2). Hal: 49-57.
- Zachut, M., Arieli, A., Lehler, H., Argov, N., dan Moallem, U., 2008. Dietary unsaturated fatty acid influence preovulatory follicle characteristics in dairy cows. *Reproduction*. Vol. 135. Hal: 683-692.
- Zavadilova, L., dan Stripkova, M. 2013. Effect of age at first calving on longevity and fertility traits for Holstein cattle. *Czech.J.Anim.Sci*. Vol. 58(2). Hal: 47-57.