

## REFERENCES

- Abdullah, M.A.N., C.I. Novita and E.M. Sari. 2019. Buku Ajar Manajemen Reproduksi Ternak Sapi. Syiah Kuala University Press. Banda Aceh. P. 17.
- Abecia J.A., C. Sosa, F. Forcada and A. Meikle. 2006. The Effect Of Undernutrition On The Establishment Of Pregnancy In The Ewe. In: *Reprod. Nutr. Develop* 46: 367-378.
- Abecia, J.A., F. Forcada and A. Gonzalez-Bulnes. 2012. Hormonal Control of Reproduction in Small Ruminants. *Animal Reproduction Science* 130: 173-179.
- Al-Asmakh, M. 2007. Reproductive Function of Progesterone. *Middle East Fertility Society Journal* 12(3): 147.
- Alberts, B. A. Johnson and J. Lewis. 2002. Fertilization. *Molecular Biology of the Cell* 4<sup>th</sup> Ed. Garland Science. New York.
- Alwan, A. F., F.A.M Amin and N.S. Ibrahim. 2010. Blood Progesterone And Estrogen Hormones Level During Pregnancy And After Birth In Iraqi Sheep And Goat. *Basrah Journal Of Veterinary Research* 9: 153-157.
- Almubarak, A.M., N.A.E. Abass and M.E. Badawi. 2018. Pseudopregnancy in goats: sonographic prevalence and associated risk factors in Khartoum State, Sudan. *Vet World* 11:525–9.
- Amadori, A., C. Cavallari, E. Giacomucci, S. Macrelli, G. Mastronuzzi, and N. Ucci. 1994. (eds). *Fiologia della Riproduzione*. Bologna: CLUEB: 1-192. In: Taraborrelli, S. 2015. *Physiology, Production and Action of Progesterone*. *Acta Obstetricia et Gynecologica Scandinavia* 94: 8-16.
- Amiruddin., T.N. Siregar dan H. Budiman. 2001. Efektivitas Beberapa Metode Diagnosis. *J. Med. Vet.* 1: 45-48.
- Amstalden, M. and G.L. Williams. 2015. Neuroendocrine Control of Estrus and Ovulation. In: Hopper, Richard M. (Ed). *Bovine Reproduction*. 1<sup>th</sup> Ed. John Wiley & Sons, Inc. Starkville. Missisipi. USA. 195-200.
- Anderson, S.T., B.M. Bindon., M.A. Hillard and T. O'shea. 2003. Increased Ovulation Rate in Merino Ewes Immunization Against Small Synthetic Peptide Fragments of The Inhibin Alfa Sub Unit. *Reproduction, Fertility and Development*. 10: 421-432.

- Anderson, G.D. and P.S. Odegaed. 2004. Pharmacokinetics of Estrogen and Progesterone in Chronic Kidney Disease. *Adv. Chronic Kidney Dis.* 11(4): 357-360.
- Andriaens, I., T. Huybrechts., K. Greerinckx., D. Daems., J. Lammertyn., B.D. Ketelaere., W. Saeys and B. Aernauts. 2017. Mathematical Characterization of The Milk Progesterone Profile as Leg up to Individualized Monitoring of Reproduction Status in Dairy Cows. *Theriogenology* 103: 44-51.
- Adriani. 2008. Meningkatkan pertumbuhan kelenjar ambing dan produksi susu melalui penyuntikan pregnant more serum gonadotrophin. *J. Ilmiah Ilmu-Ilmu Peternakan.* 11:34-41.
- Asnia, E. 2018. Pengaruh Paritas Terhadap Produksi dan Kuantitas Susu Kambing Perah Peranakan Etawa (PE) di UPT PT-HMT Singosari Malang[Skripsi]. Fakultas Kedokteran Hewan. Universitas Airlangga. Hal. 22-23.
- Baki, H. 2013. Estrogen and Growth Hormone and Their Roles in Reproductive Function. *International Journal of Animal and Veterinary Advances* 5(1):21-28.
- Batubara, A., S. Nasution, Subandriyo, I. Inounu, B. Tiesnamurti dan A. Anggraeni. 2016. Kambing Peranakan Etawah (PE). Indonesian Agency for Agricultural Research and Development (IAARD) Press. Jakarta.
- Bergstrom, S. 1965. Comparative Endocrinology: The Prostaglandin. In: Alper, E., E.B. Astwood., R.W. Bates., J. Fried., G. Grant., G. Pincus., E.C. Reifenstein., J.F. Tait and A. White. *The Prostaglandins. Recent Progress in Hormone Research.* Academic Press. New York and London. 153-167.
- Blache, D and G.B. Martin. 2009. Focus Feeding to Improve Reproductive Performance in Male and Female Sheep and Goats – How It Works and Strategies for Using It. *Options Méditerranéennes* 85: 351-364.
- Blanco, M. 2003. Embryo Production And Progesterone Profiles In Ewes Superovulated With Different Hormonal Treatments. *Small Ruminant Research* 47: 183.
- Bowen, R. 2018. Gonadotropins: Luteinizing and Follicle Stimulating Hormones. <http://www.vivo.colostate.edu/hbuaks/pathphys/endocrine/hypopit/lhfsh.htm> [31 December 2019].
- Brooks, K., G. Burns and T.E. Spencer. 2014. Conceptus Elongation in Ruminants: Roles of Progesterone, Prostaglandin, Interferon Tau and Cortison. *Journal of Animal Science and Biotechnology* 5: 53.

- Champbell, A.N., J.B. Reece, and L.G. Mitchell. 2004. *Biology*. W. Manalu (Penterjemah). Edisi ke-5. Erlangga, Jakarta. In: Sjahfirdi, Luthfiralda., Gita P, Putri Krida., Pudji Astuti dan Hera Maheshwari. 2013. Pemeriksaan Profil Hormon Progesteron Selama Siklus Estrus Tikus (*Rattus norvegicus*) Betina Menggunakan Perangkat Inframerah. *J. Kedokteran Hewan*. 7(1): 32-36.
- Ciccioli, N.H., Wettemann, R.P., Spicer, L.J., Lents, C.A., White, F.J., Keisler, D.H, 2003. Influence of Body Condition at Calving and Postpartum Nutrition on Endocrine Function and Reproductive Performance of Primiparous Beef Cows. *J. Anim. Sci*. 81: 3107-3120.
- Crowther J.R. 1995. Competitive ELISA. In: Crowther J.R. (eds) *ELISA. Methods in Molecular Biology™*. vol 42. Humana Press. Uk. P. 177-206.
- Crowther, J.R. 2009. *Methods in Molecular Biology. The ELISA Guidebook 2<sup>nd</sup> Ed.* Humana Press. USA. P. 12-20.
- Dávilla, F.S., A.S. del Bosque and H.B. Barragán. 2018. Reproduction in Goats. *Goat Science* edited by Sándor Kukovics. Intech Open: 87-105.
- Devendra.C dan McLeory G.B. 1982. *Goat and Sheepn Production in The Tropis*.
- Dinas Peternakan dan Perikanan Kabupaten Wonosobo. 2011. *Budidaya Kambing Peranakan Etawah (PE) sebagai Penghasil Daging dan Susu*. Badan Litbang Pertanian. Wonosobo.
- Diskin, M.G., And D.G. Morris. 2008. Embryonic And Early Foetal Losses In Cattle And Other Ruminants. *Reprod. Domest. Anim*. 43(2):260–267.
- Dunlap, K.A., D.W. Erikson, R.C. Burghardt, F.J. White, K.M. Reed, J.L. Farmer, T.E. Spencer, R.R. Magness, F.W. Bazer, K.J. Bayless, and G.A. Johnson. 2008. Progesterone and Placentation Increase Secreted Phosphoprotein One (SPP1 or Osteopontin) in Uterine Glands and Stroma for Histotrophic and Hematrophic Support of Ovine Pregnancy. *Biology of Reproduction* 79: 983-990.
- Ebling, F.J. and A.S. Cronin. 2000. The Neurobiology of Reproductive Development. *Neuroreport* 11: 23-33.
- Eilts, Bruce and D. Paccamonti. 2004. *The Bovine Estrous Cycle*. [http://therio.vetmed.lsu.edu/the\\_bovine\\_estrous\\_cycle.htm](http://therio.vetmed.lsu.edu/the_bovine_estrous_cycle.htm). [14 April 2019].
- Estill, C.T. 2015. Initiation of Puberty in Heifers. In: Hopper, Richard M. (Ed). *Bovine Reproduction*. 1<sup>th</sup> Ed. John Wiley & Sons, Inc. Starkville. Missisipi. USA. 195-200.

- Fatet, A., M.T. Pellicer-Rubio and B. Leboeuf. 2011. Reproductive Cycle Of Goats. *Animal Reproduction Science* 124: 211–219.
- Fingk, G. 2012. Neuroendocrine Feedback Control Systems: An Introduction. *In*: Fink, G., D.W. Pfaff and J.E. Levine. *Handbook of Neuroendocrinology*. Academic Press. Elsevier: 55-72.
- Frastantie, D. 2017. Deteksi Kebuntingan Dini pada Sapi Perah dengan Pemeriksaan Ultrasonografi (USG) dan Analisis Hormon Steroid. Pascasarjana. Institut Pertanian Bogor.
- Gan, S.D. and K.R. Patel. 2013. Enzyme Immunoassay and Enzyme Linked Immunosorbent Assay. *Journal of Investigate Dermatology* 133: 1-3.
- Goff, A.K. 2004. Steroid Hormone Modulation of Prostaglandin Secretion in the Ruminant Endometrium During Estrus Cycle. *Biology of Reproduction* 71: 11-16.
- Gosh, C.P., S. Datta., D. Mandal., A.K. Das., D.C/ Roy., A. Roy and N.K. Tudu. Body Condition Scoring in Goat: Impact and Significance. *Journal of Entomology and Zoology Studies*: 554-558.
- Hafez, B. and E.S.E Hafez. 2000. *Reproduction in Farm Animals*. 7<sup>th</sup> Ed. Lea and Febiger co., Philadelphia. USA.
- Halasz, M and S.B. Julia. 2013. The Role of Progesterone in Implantation and Trophoblast Invansion. *J. of Reproductive Immunology* 97: 43-50.
- Hall, J.E. 2016. *Guyton and Hall: Textbook of Medical Physiology*. 13<sup>th</sup>. Ed. Elsevier, Inc, Philadelphia. United States. 937-938.
- Hnasko, R. 2015. ELISA: Method and Protocols, *Methods in Molecular Biology*. Vol. 1318:51-61.
- He, J. 2013. Practical Guide to ELISA Development. *The Immunoassay Handbook* 4<sup>th</sup> Ed. Elsevier. P. 381.
- Humblot, P. 2001. Use of Pregnancy Spesific Proteins and Progesterone Assays to Monitor Pregnancy and Determine the Timing. Frequencies and Sources of Embryonic Mortality in Ruminants. *Theoriogenology* 56: 1417-1433.
- Hussain, Q., E. Ropstad and Ø. Andersen. 1996. Effects of Type and Quality of Roughage and Energy Level on Plasma Progesterone Levels in Pregnant Does. *Small Ruminant Research* 21: 113-120.

- Hussain, S.O. 2015. Serum Progesterone Analysis for Monitoring Estrus, Pregnancy and Parturition in Shami Goats. *Al-Qadisiya Journal of Vet Med Sci* 14: 69-73.
- Ihsan, M.N. 2010. Ilmu Ternak Dasar. Universitas Brawijaya Press. Malang. P 98.
- IARC. 1979. Progesterone. In Sex Hormones II. IARC Monographs on the Evaluation of Carcinogenic Risk of Chemicals to Humans, vol. 21. Lyon, France: International Agency for Research on Cancer. 491-515.
- Islam, M.M., K. Kizaki., T. Takashi., J.S. Khanom., S. Debnath and M.A.M.Y Khandoker. 2014. Pregnancy Diagnosis in Black Bengal Goat by Progesterone Assay. *Bang. J. Anim. Sci.* 43(3): 180-184.
- Ismudiono., P. Srianto., H. Anwar., S.P. Madyawati., A. Samik dan E. Safitri. 2010. Buku Ajar: Fisiologi Reproduksi pada Ternak. Fakultas Kedokteran Hewan. Universitas Airlangga. 58.
- Jarell, V.L and P.J. Dzink. 1991. Effect of number of corpora lutea and fetuses on concentration of progesterone in blood of goats. *Journal of Animal Science* (69): 770-773.
- Jelinic, M., S.A. Marshal, D. Stewart, E. Unemori, L.J. Parry and C.H. Leo. 2018. Peptide Hormon Relaxin: from Bench to Beside. *J Physiol Regul Integr Comp Physiol* 314: 753-760.
- Jenkin, G and I.R. Young. 2004. Mechanisms Responsible for Parturition; The Use of Experimental Models. *Anim Reprod Sci* 82 – 85: 567 – 581.
- Kandiel M.M.M, Watanabe G, Sosa G,A., Abou ElRoos M.E.A, Abdel-Gaffar A.E., Li J.Y., Manabe N, El-Azab A.I., Taya K. 2010. Profile of Circulating Steroid Hormones, Gonadotropins, Immunoreactive Inhibin and Prolactin During Pregnancy in Goats and Immunolocalization of Inhibin Subunits, Steriodigenic Enzymes and Prolactin in The Corpus Luteum and Placenta. *Journal of Reproduction and Development* 56(2): 243-250.
- Kanuya, N.L., Kessy, B.M., Nkya, R., Mujuni, P.F., 2000. Plasma Progesterone Concentrations and Fertility of Indigenous Small East African Goats Bred After Treatment with Cloprostenol. *Small Rumin. Res.* (35) 157–161.
- Karche, S.D and J. Kuoamo. 2015. An Overview of Pregnancy Diagnosis in Small Ruminants. *Journal of Animal Sciences* 85(4): 331-342.
- Katongole, C.B. and S. Gombe. 2006. A Study of The Reproductive Hormones of Indigenous Goats in Uganda. <http://www.fao.org/wairdocs/ILRI/x5464B/x5464b02.htm>. [29 Maret 2019].

- Khan, JR and Ludri RS. 2002. Hormonal profiles during periparturient period in single and twin fetus bearing goats. *Asian-Australian Journal of Animal Science*, 15 (3): 346-351.
- Khanum, S.A., M. Hussain and R. Kausar. 2007. Assessment of Reproductive Parameters in Female Dwarf Goat (*Capra Hircus*) on the Basis of Progesterone Profiles. *Animal Reproduction Science* 102: 267-275.
- Kornalijnslijper, J.E., M.M., Bevers., H.A., Van Oord and M.A.M., Taverne. 1997. Induction of Hydrometra in Goats by Means of Active Immunization Against PGF $2\alpha$ . *Animal Reproduction Science* 46: 109-122.
- Kunbhar, H.K., A.A. Memon, R.A. Leghari, M.J. Memon and N.A. Korejo. 2019. Determination of Early Pregnancy Through Plasma Progesterone Concentration in Kamori Goat. *Pak. J. Agri., Agril. Engg., Vet. Sci.* 35(1): 63-66.
- Laycock, J.F. and P.H.Wise. 1996. *Essential endocrinology* Oxford, UK: Oxford University press.
- Lestari, T.D. 2006. *Metode Deteksi Kebuntingan Pada Ternak Sapi*. Fakultas Peternakan. Universitas Padjadjaran. Hal. 10.
- Lestari, T.D dan Ismudiono. 2014. *Ilmu Reproduksi Ternak*. Airlangga University Press. Surabaya. P 85.
- Lin, A.V. 2015. Direct ELISA. In: Hnasko, R.M. *ELISA Methods and Protocols*. Humana Press. Albany. USA. P. 62.
- Linnæus, C. 1758. *Systema Naturae Per Regna Tria Naturae, Secundum Classes, Ordines, Genera, Species, Cum Characteribus, Differentiis, Synonymis, Locis*. Laurentii Salvii, Holmiae. Vol. Tomus I, Editio decima, reformata: i-ii, 1-824.
- Lonergan, P. 2011. Influence Of Progesterone On Oocyte Quality And Embryo Development In Cows. *Theriogenology* 76:1594–1601.
- Lopes Junior, E.S., J.F. Cruz., D.I.A. Texeira. 2004. Pseudopregnancy in Saanen Goats (*Capra hircus*) Raised in Northeast Brazil. *Vet Res Commun* 28: 119-125.
- Martin, R.D. 2013. Gestation period. Access Science <http://www.accessscience.com/abstract.aspx?id=288400&referURL=http%3a%2f%2fwww.accessscience.com%2fcontent.aspx%3fid%3d288400>. [23 January 2020]

- Maryati T dan L. Nuniek. 1990. Penentuan Tingkatan Kadar Hormon Progesteron dalam Darah dan Susu pada Ternak Kambing dan Sapi. Pusat Aplikasi Isotop dan Radiasi. BATAN. Pp : 645-658.
- Matsas, D. 2007. Pregnancy Diagnosis in Goats. Current Therapy in Large Animal. Theriogenology Ed. R. S. Youngquist and W. R. Threlfall, Saunders, Philadelphia. p 547-554.
- Matualesi, G. 2017. Analisis Kelayakan Usaha Peternakan Kambing Peranakan Etawa (PE) Kelompok Taruna Tani di Kecamatan Toari Kabupaten Kolaka [Skripsi]. Fakultas Peternakan. Universitas Halu Oleo.
- Mekonnin A.B., A.F. Howie., S.C. Riley., G. Gidey., D.T. Tegegne., G. Desta., G. Ashebir., B. Gebrekidan and C.R. Harlow. 2017. Serum, Milk, Saliva and Urine Progesterone and Estradiol Profiles in Crossbreed (Zebu x Holstein Friesian) Dairy Cattle. Anim. Husb Dairy Vet Sci. 1(3): 1-10.
- Menzies, P. 2008. Breeding Management of Sheep and Goats. Small Ruminant Breeding Management. Theriogenology 3460: 12.
- Menzies, P. 2019. Pseudopregnancy in Goats – an Important Cause Subfertility. Veterinary Record: 767-769.
- Merxens, J. and A. Syarif. 1932. Bijdrage Tot De Keimis Van De Geiten Fo KI Erij In Nederlandsh Oost Indie (Sumbangan Tentang Peternakan Kambing di Indonesia) “Am Utoyo, Re (penterjemah), 1979”. Domba dan Kambing. LIPI. In: Batubara, A., S. Nasution, Subandriyo, I. Inounu, B. Tiesnamurti dan A. Anggraeni. 2016. Kambing Peranakan Etawah (PE). Indonesian Agency for Agricultural Research and Development (IAARD) Press. Jakarta. P. 7.
- Molnar and J. Galr. 2010. Animal Structure and Function. Concepts of Biology 1<sup>st</sup> Ed. BC Campus. USA.
- Mufidah, T., H. Wibowo., and D.T. Subekti. 2015. Pengembangan Metode ELISA dan Teknik Deteksi Cepat dengan Imunostik terhadap Antibodi Anti *Aeromonas hydrophila* pada Ikan Mas (*Cyprinus carpio*). J. Riset Akuakultur. 10(4): 553-565.
- Mullen, M.P., D.J. Cooke., and M.A. Crow. 2013. Structural and Functional Roles of FSH and LH as Glycoproteins Regulating Reproduction in Mammalian Species. Intech Open: 155-156.
- Najafi, G., F. Cedden and S. A. Maleki. 2014. The Determination of Plasma Progesterone, Estradiol-17 $\beta$  Hormone Level in Ghezel Sheep Treated with CIDR and Various Doses Of PMGS During The Breeding Season. Bulletin of Environment, Pharmacology and Life Sciences, 3 (Special-Issue-5): 118-122.

- Noakes, D.E., T.J. Parkinson and G.C.W. England. 2008. *Veterinary Reproduction and Obstetrics* 9<sup>th</sup> Ed. Edinburgh London Elsevier Sci: 399-408.
- Nyman, S. 2018. *Progesteron Profiles, Oestrous Expression and Pregnancy in Dairy Cows*. [Doctoral Thesis]. Swedish University. p.18.
- O'Connor, M.L. 1993. *Heat Detection and Timing of Insemination for Cattle*. The Pennsylvania State University. p 4.
- Olson, D.M. 2003. *The Role of Prostaglandins in the Initiation of Parturition*. *Best practice and research. Clinical obstetrics and gynaecology* 17(5):717.
- Parr R.A., Davis I.F., Miles M.A. and Squires T.J., 1993. *Liver Blood Flow and Metabolic Clearance Rate of Progesterone In Sheep*. *Res. Vet. Sci.* (5): 311-316.
- Partodihardjo, S. 1982. *Ilmu Reproduksi Hewan*. Penerbit Mutiara Sumber Widya. Jakarta.
- Pfeifer, S.M. and JFIII Strauss. 1996. *Progestins*. In: *Reproductive Endocrinology, surgery and technology*, pp 495-503. Eds E.Y. Adashi, J.A. Rock and Z. Rosenwaks. Philadelphia: Lippincott-Raven.
- Pineda, M.H. 2003. *Female reproductive system*. In: *McDonalds Veterinary Endocrinology and Reproduction*. M.H Pineda and M.P Dooley. 5<sup>th</sup> Ed. Iowa State Press USA. P. 435-437.
- Piotr, D. 2013. *Physiological Role of Prostaglandin and Control During Early Pregnancy in Sheep*[Thesis]. *Animal Science*. Washington State University. USA. Abstract.
- Prabowo, A. 2010. *Petunjuk Teknis: Budidaya Ternak Kambing (Materi Pelatihan Agribisnis bagi KMPH)*. BPTP Sumatera Selatan. Hal. 4.
- Purohit, G.N. 2010. *Parturition In Domestic Animals: A Review* . *Webmed Central Reproduction*: 1 p. 2-18
- Rahman ANMA. 2002. *Changes in the Uterine Immune System during Pregnancy in Sheep*. [Thesis MV.Sc]. University of Melbourne. P. 1-140.
- Rahman, A.N MD A. 2006. *Hormonal Changes in the Uterus During Pregnancy- Lessons from the Ewe: A Review*. *J. Agric. Rural Dev.* 4 (Abstract) : 1.
- Rhind, SM, Mc Millen S, Mc Kelvey WAC, Rodriguez Herrejon FF, Mcneilly AS. 1989. *Effect of the Body Condition of Ewes on the Secretion of LH and FSH and the Pituitary Response to Gonadotrophin-Releasing Hormone*. *Journal of Endocrinology*. 120(3):497502.



- Roberts SJ. 1986. *Veterinary Obstetrics and Genital Diseases (Theriogenology)*. 3rd ed. Author Wood Stock, New York, USA.
- Robinson, J.E., A.E. Healey., T.G. Hams., E.A. Messent., D.C. Skinner., J.A. Taylor., and N.P. Evans. 2000. The Negative Feedback Action of Progesterone on Luteinizing Hormone Release is not Associated with Changes in GnRH mRNA Expression in the Ewe. *Journal of Neuroendocrinology* 12: 121-129.
- Safdar, A.H.A and N.M. Kor. 2014. Parturition Mechanism in Ruminants: A Complete overview. *European Journal of Experimental Biology* 4(3): 211-218.
- Schauer, C., T. Tong., H. Petitjean., T. Blum., S. Peron., O. Mai., F. Schmitz., U. Boehm., and T. Leinders-Zufall. 2015. Hypothalamic Gonadotropin-Releasing Hormone (GnRH) receptor Neurons Fire in Synchrony with The Female Reproductive Cycle. *Journal Neurophysiol* 114(2): 1008-1021.
- Shawn, N.D., S.N. Histed., S.S. Srouji., J. Yang., H. Lee and J.E. Hall. 2010. Estrogen Negative Feedback On Gonadotrophin Secretion: Evidence for a Direct Pituitary Effect in Women. *J Clin Endocrinol Metab* 95(4): 1955-1961.
- Shearwood, A.M., T. Chia., and S.M. Davies. 2015. Estrogen-mediated Regulation of Mitochondrial Gene Expression. *Mol. Endocrinol.* 29(1): 14-27.
- Silvia, W., A. McGinnis and T. Halter. 2005. A Comparison of Adrenal Gland Function in Lactating Dairy Cows With or Without Ovarian Follicular Cysts. *Reprod Biol* 5: 19-29.
- Silva, L.M., D. Rondina., A.A. Araújo., C. Sargentini., I.M.T. Lima., M.R.C. Rodrigues., A.L. Souza., A. Giorgetti., C.H.A. Oliveira., and F.V. Rodrigues. 2011. Reproductive Responses and Progesterone Levels of Postpartum Oestrus Synchronization in Goats with different Body Reserves. *Italian Journal of Animal Science* 10(e42): 160-164.
- Siregar, T.N. 2009. Profil Hormon Esterogen dan Progesteron pada Siklus Berahi Kambing Lokal. *J. Ked. Hewan.* 3(2): 240-247.
- Siregar, T.N., I.K. Siregar., T. Armansyah., Syafruddin., A. Sayuti dan Hamdani. 2013. Tampilan Reproduksi Kambing Lokal Hasil Induksi Superovulasi dengan Ekstrak Pituitary Sapi. *Jurnal Veteriner* 13(1): 91-98.
- Soenardihardjo, B.P., Widjiati., M. Mafruchati., and E.M. Luqman. 2011. *Buku Ajar Embriologi*. Airlangga University Press. Surabaya. P 44-45.

- Spencer, T.A., G.A. Johnson, R.C. Burghardt, and F.W. Bazer. 2004. Progesterone and Placental Hormone Actions on the Uterus: Insight from Domestic Animals. *Biology of Reproduction* 71: 2-10.
- Spencer, T.E., N. Forde., P. Dorniak., T.R. Haansen., J.J. Romero and P. Lonergan. 2014. Conceptus-Derived Prostaglandins Regulate Gene Expression in the Endometrium Prior to Pregnancy Recognition in Ruminants. *Reproduction* 146(4): 377-387.
- Stanker, L.H. and R.M. Hnasko. 2015. A Double Sandwich ELISA for Identification of Monoclonal Antibodies Suitable for Sandwich Immunoassays. In: Hnasko, R.M. *ELISA Methods and Protocols*. Humana Press. Albany. USA. P. 69-72.
- Stewart, J.L and C.F. Shipley. 2019. Pregnancy Determination in Goats. *MSD Manual Veterinary Manual*. <https://www.merckvetmanual.com/management-and-nutrition/management-of-reproduction-goats/pregnancy-determination-in-goats> [10 January 2020].
- Sutama, I.K. 2011. Kambing Peranakan Etawah Sumberdaya Ternak Penuh Berkah. *Badan Litbang Pertanian. Agroinovasi* 3427: 5.
- Sutama, I.K., I.G.M. Budiarsana., Supriyati dan Hastono. 2012. Perlakuan Progesteron Eksogenus Selama bunting Untuk Meningkatkan Produksi Susu dan Pertumbuhan Anak pada Kambing Peranakan Etawah. *JITV* 17(2): 83-91.
- Taverne, M.A.M., Hesselink J.W., Bevers M.M., H.A. van oord., and J.E. Kornalijnsliper. 1995. Aetiology and Endocrinology of Pseudopregnancy in the Goats. *Repro Dom Anim* 30:228-30.
- Tjptosumirat, T. 2009. Studi Hubungan Konsentrasi Hormon Progesteron dengan Jumlah Korpus Luuteum pada Kambing. *Jurnal Ilmiah Aplikasi Isotop dan Radiasi*. 5(1): 44-51.
- Thomas, M.P. and B.V.L. Potter. 2013. The Structural Biology of Oestrogen Metabolism. *Journal of Steroid Biochemistry and Molecular Biology* 137: 27-49.
- Vassantha, S..K.I and S.S.R Kona.2016. Physiology of Puberty in Females: A Review. *International Journal of Veterinary Sciences and Animal Husbandry* 1(2): 23-26.
- Wakabayashi, K. 2008. How to Calculate ELISA Assay Values by Excel. <http://labanimal.co.kr/product/TechInform/ELISAbYEXCELE.pdf>. [1 Mei 2019].
- Woldemeskel, M. 2017. Toxicologic Pathology of the Reproductive System. *Reproductive and Developmental Toxicology*: 1209-1241.

- Yahi, D., N.A. Ojo., and G.D. Mshelia. 2017. Effects of Dexamethasone on Progesterone and Estrogen Profiles and Uterine Progesterone Receptor Localization During Pregnancy in Sahel goat in Semi-Arid Region. *Journal Animal Science Technology* 59: 12.
- Yanti, E.G., Isroli dan T.H. Suprayogi. 2013. Performans Darah Kambing Pernakan Ettawa Dara yang Diberi Ransum dengan Tambahan Urea yang Berbeda. *Animal Agricultural Journal*. 2(1): 439-444.
- Yusuf, M. 2012. *Buku Ajar: Ilmu Reproduksi Ternak*. Fakultas Peternakan. Universitas Hasanuddin. Hal. 47.