

DAFTAR PUSTAKA

- Adnan, D. T. J. 2018. Evaluasi Keberhasilan Inseminasi Buatan pada Sapi Berdasarkan Service Per Conception, Non-Return Rate dan Jenis Semen Beku yang Digunakan di Kecamatan Narmada Kabupaten Lombok Barat. Skripsi. Faculty of Animal Husbandry, Universitas Mataram.
- Agus, A., and T. S. M. Widi. 2018. Current Situation and Future Prospects for Beef Cattle Production in Indonesia—A review. *Asian-Australasian Journal of Animal Sciences*. 31 (7) : 976.
- Aji, R. N., P. Panjono, A. Agus, B. P. Widyobroto, T. Hartatik, I. G. S. Budisatria, ... and S. Bintara. 2017. Reproductive Performances of Sumba Ongole Cows Inseminated with Frozen Belgian Blue Semen. *Buletin Peternakan*. 41 (4) : 379-384.
- Ali, A. K. A., A. A. Al-Essa, M. A. Alshaikh, R. S. Aljumaah, A. A. Al-Haidary, and M. S. Alkraidees. 2005. Odds Ratio and probability of Conception of Holstein Friesian Dairy cows in the Kingdom of Saudi Arabia. *Journal of Animal Science*. 18 : 308–313.
- Amidia, L., F. Hoesni, dan B. Rosadi. 2021. Analisis Keberhasilan Inseminasi Buatan (IB) Ternak Sapi berdasarkan Karakteristik Inseminator di Kabupaten Kerinci. *Jurnal Ilmiah Universitas Batanghari Jamb.*, 21 (2) : 467-476.
- Amirul, M. 2017. Perbandingan Kualitas Semen Beku Produksi Balai Inseminasi Buatan (BIB) Tuah Sakato, Lembang dan Singosari yang Ada di Satuan Pelayanan Inseminasi Buatan(SPIB-I) Provinsi Sumatera Barat. Skripsi. Fakultas Peternakan. Universitas Andalas. Padang.
- Ananta, A., H. Hafid, dan L. O. A. Sani. 2015. Faktor-Faktor yang Mempengaruhi Produktifitas Usaha Ternak Sapi Bali pada Peternakan Transmigran dan Non Transmigran di Pulau Kabaena Kabupaten Bombana. *J. Ilmu Ternak Tropika*. 2 (3) : 52-67.
- Anel, L., M. Kaabi, B. Abroug, M. Alvarez, E. Anel, J. C. Boixo, ... and P. De Paz. 2005. Factors Influencing the Success of Vaginal and Laparoscopic Artificial Insemination in Churra Ewes: A Field Assay. *Theriogenology*. 63 : 1235–1247.

- Annisa, N. N., Roslizawaty, Hamdan, C. D. Iskandar, Ismail, dan T. N. Siregar. 2018. Peran Peternak terhadap Keberhasilan Inseminasi Buatan pada Sapi di Kabupaten Asahan. *JIMVET*. 2 (1) : 155-160.
- Anzar, M., U. Farooq, M. A. Mirza, M. Shahab, and N. Ahmad. 2003. Factors Affecting the Efficiency of Artificial Insemination in Cattle and Buffalo in Punjab, Pakistan. *Pakistan Veterinary Journal*. 23 (3) : 106-113.
- Ardhani, F., L. L. Lukman, dan F. Juita. 2021. Peran Faktor Peternak dan Inseminator terhadap Keberhasilan Inseminasi Buatan pada Sapi Potong di Kecamatan Kota Bangun. *Jurnal Peternakan Lingkungan Tropis*. 3 (1) : 15-22.
- Arianti, N., N. W. T. Inggriati, dan N. P. Sarini. 2020. Hubungan antara Karakteristik Inseminator dengan Keberhasilan Inseminasi Buatan pada Ternak Sapi di kabupaten Tabanan. *Journal of Tropical Animal Science*. 8 (1) : 1-15.
- Arthur, G. H. 2001. *Arthur's Veterinary Reproduction and Obstetrics*. Eighth edition. Pp. 430- 767
- Ayres, H., R. M. Ferreira, J. R. D. S. Torres-Júnior, C. G. B. Demétrio, C. G. de Lima, and P. S. Baruselli. 2009. Validation of Body Condition Score as A Predictor of Subcutaneous Fat In Nelore (*Bos Indicus*) Cows. *Livestock Science*. 123 (2-3) : 175-179.
- Ayres, H., R. M. Ferreira, J. R. D. S. Torres-Júnior, C. G. B. Demétrio, M. F. D. Sá Filho, L. U. Gimenes, ... and P. S. Baruselli. 2014. Inferences of Body Energy Reserves on Conception Rate of Suckled Zebu Beef Cows Subjected to Timed Artificial Insemination Followed by Natural Mating. *Theriogenology*. 82 (4) : 529-536.
- Crowe, M. A. 2008. Resumption of Ovarian Cyclicity in Post-Partum Beef and Dairy Cows. *Reproduction in Domestic Animals*. 43 : 20-28.
- Crowe, M. A., M. G. Diskin, and E. J. Williams. 2014. Parturition to Resumption of Ovarian Cyclicity: Comparative Aspects of Beef and Dairy Cows. *Animal*. 8 (1) : 40-53.
- Dunn, T. G., and C. C. Kaltenbach. 1980. Nutrition and The Postpartum Interval of the Ewe, Sow and Cow. *Journal of Animal science*. 51 (2) : 29-39.

- Fania, B., I. G. N. B. Trilaksana, dan I. K. Puja. 2020. Keberhasilan inseminasi buatan (IB) pada sapi bali di Kecamatan Mengwi, Badung, Bali. Indonesia Medicus Veterinus. 9 (2) : 177-186.
- Ariningsih, E. 2014. Kinerja Kebijakan Swasembada Daging Sapi Nasional. Forum Peneliti. Agro Ekon. 32.
- Bachev, H., B. Ivanov, D. Toteva, and E. Sokolova. 2017. Agrarian Sustainability in Bulgaria Economic, Social And Ecological Aspects. Bulgarian Journal of Agricultural Science, 23 (4) : 519-525.
- Badan Litbang Pertanian. 2020. SIKOMANDAN (Sapid dan Kerbau Komoditas Andalan Negeri). [http://repository.pertanian.go.id :8080/server/api/ core/ bitstreams /c2fe1fbe-1038-473d-8f67-1f5e4ca70336/content](http://repository.pertanian.go.id:8080/server/api/core/bitstreams/c2fe1fbe-1038-473d-8f67-1f5e4ca70336/content). Diakses pada 3 April 2023.
- Balamurugan, B., S. K. Ghosh, S. A. Lone, J. K. Prasad, G. K. Das, R. Katiyar, ... and M. R. Verma. 2018. Partial Deoxygenation of Extender Improves Sperm Quality, Reduces Lipid Peroxidation and Reactive Oxygen Species During Cryopreservation of Buffalo (*Bubalus bubalis*) Semen. Animal Reproduction Science. 189, 60-68.
- Bekana M., A. Gizachew, and F. Regassa. 2005. Reproductive Performance of Fogera Heifers Treated with Prostaglandin F2a for Synchronization of Estrus. Tropical Animal Health and Production. 37 : 373-379.
- Bilkis, T., M. K. I. Khan, A. Das, O. F. Miazzi, M. M. Momin, and M. E. H. Hazary. 2016. Artificial Insemination Practices and Factors Affecting Conception Rate of Dairy Cows in the Commercial Dairy Farms. International Journal of Science, Environment and Technology. 5 (5) : 2689-2700.
- Boland, M. P., and P. Lonergan. 2005. Effects of Nutrition on Fertility in Dairy Cows. Adv. Dairy Techn, 15, 19-33.
- Bols, P. E. J., A. Langbeen, S. Verberckmoes, and J. L. M. R. Leroy. 2010. Artificial Insemination in Livestock Production: the Vet's perspective. F, V & V IN OBGYN, MONOGRAPH : 6-12.
- Caraviello, D. Z., K. A. Weigel, P. M. Fricke, M. C. Wiltbank, M. J. Florent, N. B. Cook, ... and C. L. Rawson. 2006. Survey of Management Practices on Reproductive Performance of Dairy Cattle on Large US Commercial Farms. Journal of Dairy Science. 89 (12) : 4723-4735.

- Ciccioli, N. H., R. P. Wettemann, L. J. Spicer, C. A. Lents, F. J. White, and D. H. Keisler. 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.
- Correa, J. R., M. C. Rodriguez, D. J. Patterson, and P. M. Zavos. 1996. Thawing and Processing of Cryopreserved Bovine Spermatozoa at Various Temperatures and Their Effects on Sperm Viability, Osmotic Shock and Sperm Membrane Functional Integrity. *Theriogenology.* 46 (3) : 413-420.
- Dalton, J. C., A. Ahmadzadeh, B. Shafii, W. J. Price, and J. M. De Jarnette. 2004. Effect of Thawing Multiple 0.5-ml Semen Straws and Sequential Insemination Number on Conception Rates in Dairy Cattle. *Journal of Dairy Science.* 87 : 972–975.
- De Jarnette, J. M., and C. E. Marshall. 2005. Straw-Thawing Method Interacts with Sire and Extender to Influence Sperm Motility and Conception Rates of Dairy Cows. *J. Dairy Sci.* 88 (11) : 3868–3875.
- De Rensis, F., F. Lopez-Gatius, I. García-Ispierto, G. Morini, and R. J. Scaramuzzi. 2017. Causes of Declining Fertility in Dairy Cows During the Warm Season. *Theriogenology.* 91 : 145–153.
- Ditjen Peternakan dan Kesehatan Hewan. 2020. Sapi Kerbau Komoditas Andalan Negeri (SIKOMANDAN). <http://cybex.pertanian.go.id/mobile/artikel/91059/SAPI-KERBAU-KOMODITAS-ANDALAN-NEGERI-SIKOMANDAN/>. Diakses pada 3 April 2023.
- D’Occhio, M. J., P. S. Baruselli, and G. Campanile. 2019. Influence of Nutrition, Body Condition, and Metabolic Status on Reproduction in Female Beef Cattle: A Review. *Theriogenology.* 125 : 277–284.
- Dobson, H., S. L. Walker, M. J. Morris, J. E. Routly, and R. F. Smith. 2008 Why is it Getting More Difficult to Successfully Artificially Inseminate Dairy Cows?. *Animal.* 2 : 1104-1111.
- Fanani, S., Y. B. P. Subagyo, dan Lutojo. 2013. Kinerja Reproduksi Sapi Perah Pernakan Friesian Holstein (PFH) di Kecamatan Pudak, Kabupaten Ponorogo. Fakultas Pertanian Universitas Sebelas Maret. Surakarta.

- Fania, B., I. G. N. B. Trilaksana, dan I. K. Puja. 2020. Keberhasilan inseminasi buatan (IB) pada sapi bali di Kecamatan Mengwi, Badung, Bali. *Indonesia Medicus Veterinus*. 9 (2) : 177-186.
- Febrianthoro, F., M. Hartono., dan S. Suharyati. 2015. Faktor-faktor yang Memengaruhi Conception Rate pada Sapi Bali di Kabupaten Pringsewu. *Jurnal Ilmiah Peternakan Terpadu*. 3 (4) : 239-244.
- Fitraldi, F., M. Hartono., dan P. E. Santosa. 2015. Conception rate pada sapi potong di kecamatan jati agung kabupaten lampung selatan. *Jurnal Ilmiah Peternakan Terpadu*. 3 (1) : 7-14.
- Flamenbaum I, and N. Galon. 2010. Management of Heat Stress to Improve Fertility in Dairy Cows in Israel. *J Reprod Dev*. 56 : 36-41.
- Fraser, D., D. M. Weary, E. A. Pajor, and B. N. Milligan. 1997. A Scientific Conception of Animal Welfare that Reflects Ethical Concerns. *Animal Welfare*. 6 : 187-205.
- Foote, R. H. 1996. Review: Dairy Cattle Reproductive Physiology Research and Management Past Progress and Future Prospects. *J Dairy Sci*. 79 (9) : 80 -90.
- . 2003. Fertility Estimation: A Review of Past Experience and Future Prospects. *Animal Reproduction Science*. 75 (1-2) : 119-139.
- . 2010. The History of Artificial Insemination: Selected Notes And Notables. *J. Anim. Sci*. 80 : 1-10.
- Givens, M. D., and M. S. Marley. 2008. Infectious Causes of Embryonic and Fetal Mortality. *Theriogenology*. 70 : 270-285.
- Gürler, H., E. Malama, M. Heppelmann, O. Calisici, C. Leiding, J. P. Kastelic, and H. Bollwein. 2016. Effects of Cryopreservation on Sperm Viability, Synthesis of Reactive Oxygen Species, and DNA Damage of Bovine Sperm. *Theriogenology*. 86 : 562-571.
- Hafez, E. S. E. 1993. *Reproduction in Farm Animals*. 6 th edition. Lea and Febiger. Philadelphia.
- Hafez, E. S. E., and B. Hafez. 2000. *Semen Evaluation in Reproduction in Farm Animals*. Lea and Febiger, Philadelphia.

- Hafez, E.S.E., and B. Hafez, 2008. Folliculogenesis, Egg Maturation, and Ovulation. Reproduction in Farm Animal. Edited by B. Hafez, and E.S.E. Hafez 7 th Edition. Blackweell Publishing. USA.
- Hakim L., G. Ciptadi, and V. M. A. Nurgartiningasih. 2010. Model Rekording Data Performans Sapi Potong Lokal Di Indonesia. Produksi Ternak Fakultas Peternakan Universitas Brawijaya Malang. J. Ternak Tropika. 11(2): 61-73.
- Hamid, M., S. Abduraman, and B. Tadesse. 2021. Risk Factors for the Efficiency of Artificial Insemination in Dairy Cows and Economic Impact of Failure of First Service Insemination in and around Haramaya Town, Oromia Region, Eastern Ethiopia. *Veterinary medicine international*.
- Hansen, P. J. 2019. Reproductive Physiology of the Heat-Stressed Dairy Cow: Implications for Fertility and Assisted Reproduction. *Animal Reproduction*. 16 : 497-507.
- Hässig, M., M. Walser, and E. Eggenberger. 2006. Evaluation of Clinical Signs in Suboestrous Cows. *Vet Rec*. 158 (86) : 4 –5.
- Hastuti, D. H., S. Nurtini, dan R. Widiati. 2008. Kajian Sosial Ekonomi Pelaksanaan Inseminasi Buatan Sapi Potong di Kabupaten Kebumen. *Mediagro*. 4 (2).
- Hastuti, D. 2008. Tingkat Keberhasilan Inseminasi Buatan Sapi Potong di Tinjau dari Angka Konsepsidan Service per Conception. *Mediagro*. 4 (1) : 12-20.
- Haryanto, A., R. O. Faidiban, and A. Supriyantono. 2020. Artificial Insemination Program of Beef Cattle in Manokwari Regency. *IOP Conference Series: Earth and Environmental Science*. 518 (1).
- Haugan T., O. Reksen, Y. T. Gröhn, E. Kommissrud, E. Ropstad, and E. Sehested. 2005. Seasonal Effects of Semen Collection and Artificial Insemination on Dairy Cow Conception. *Animal Reproduction Science*. 90 : 57–71
- Hawkins dan V. D. Ban. 1999. *Penyuluhan Pertanian*. Kanisius. Yogyakarta
- Herawati, T., A. Anggraeni, L. Praharani, D. Utami, dan A. Argiris. 2012. Peran Inseminator dalam Keberhasilan Inseminasi Buatan pada Sapi Perah Inseminator Role in The Success of Artificial Insemination on Dairy Cattle. *Informatika Pertanian*. 21 (2) : 81-88.

- Hifiziah, A., dan Astuti. 2015. Analisis Faktor Keberhasilan Inseminasi Buatan Ternak Sapi Potong di Kecamatan Tomnolo Pao Kabupaten Gowa. *J. Teknosains*. 9 (1) : 13-26.
- Hoesni, F. 2015. The Analysis of Cement, Livestock, Inseminator, Animal Husbandry and Feed's Factors in the Artificial Insemination's Success of Bali's Cattle in the Region of Cattle's Center in Jambi Province. *Journal of Biology. Agriculture and Healthcare*. 5 (18) : 56-63.
- Holm, D. E., P. N. Thompson, and P. C. Irons. 2009. The Value of Reproductive Tract Scoring as A Predictor of Fertility and Production Outcomes in Beef Heifers. *J. Anim. Sci.* 87 : 1934–1940.
- Hossain, M. S., A. Johannisson, M. Wallgren, S. Nagy, A. P. Siqueira, and H. Rodriguez-Martinez. 2011. Flow Cytometry for the Assessment of Animal Sperm Integrity and Functionality: State of the Art. *Asian J Androl*. 13 (3) : 406-419.
- Hubeis, V. A. 2007. Motivasi, Kepuasan Kerja dan Produktivitas Penyuluhan Pertanian Lapangan Kasus Kabupaten Sukabumi. *Jurnal Penyuluhan September*. 3 (2) : 91-99.
- Iftikhar A. A., R. H. Usmani, M. T. Tunio. and S. H. Abro. 2009. Improvement of Conception Rate in Crossbred Cattle by Using GnRH Analogue Therapy. Department of Agricultural Sciences, Islamabad; *Pakistan Veterinar Journal*. 29 : 93-94.
- Islami, W., N. I. Iriani, S. Sumarno, dan C. I. Gunawan. 2022. Analisis Keberhasilan Program Sikomandan dalam Upaya Meningkatkan Pendapatan Peternak Sapi Perah di Kota Batu. *Eqien-Jurnal Ekonomi dan Bisnis*. 11 (03) : 913-916.
- Iswanto, A. H. 2003. Partisipasi Peternak dan Tingkat Keterampilan Inseminator Dalam Program IB pada Sapi Potong di Kabupaten Bojonegoro, Jawa Timur. Thesis. IPB. Bogor.
- Jane A. P., C. Rhonda, Vann, and E. L. Jamie. 2009. Estrus Detection in Cattle. *Brown. Animal and Dairy Sciences Article: Loam Branch Research and Experiment Station*.
- Jemal, H., and A. Lemma. 2015. Review on Major Factors Affecting the Successful Conception Rates on Biotechnological Application (AI) in Cattle. *Global Journal of Medical Research. Massachusetts*. 15 (3) : 19-27.

- Kastalani, K., H. Torang, dan A. Kurniawan 2019. Tingkat Keberhasilan Inseminasi Buatan (IB) pada Peternakan Sapi Potong di Kelurahan Kalamangan Kecamatan Sabangau Kota Palangka Raya. *Jurnal Ilmu Hewani Tropika*. 8 (2) : 82-88.
- Khalifa, T., C. Rekkas, F. Samartzi, A. Lymberopoulos, K. Kousenidis, and T. Dovenski. 2014. Highlights on Artificial Insemination (AI) Technology in the Pigs. *Maced. Vet. Rev.* 37: 5-34.
- Khan, A., R. U. Khan, M. S. Qureshi, M. Mobashar, A. Gohar, S. Ahmad, ... and S. Naz. 2021. Effects of Different Equilibration Times on Post-Thaw Cryopreserved Semen Quality of Cattle and Buffalo Bulls. *Pakistan Journal of Zoology*, 53(2).
- Kim, I. H., and J. K. Jeong. 2019. Risk Factors Limiting First Service Conception Rate in Dairy Cows and Their Economic Impact. *Asian-Australas J. Anim. Sci.* 32 (4):519-526.
- Knox, R. V. 2016. Artificial Insemination in Pigs Today. *Theriogenology*. 85 (1) : 83-93.
- Kusuma, N. I. K., I. B. G. Pertama, I. G. N. G. Bidura, and I. K. Puja. 2019. Profile of Inseminators and Insemination Practices in Bali, Indonesia. *Res J. Vet. Pract.* 7 (3) : 63-66.
- Kusumawati, E. D., dan H. Leondro. 2014. *Inseminasi Buatan*. Unikama, Malang.
- Labetubun, J., F. Parera, dan S. Saiya. 2014. Evaluasi Pelaksanaan Inseminasi Buatan pada Sapi Bali di Kabupaten Almahera Utara. *Agrinimal*. 4 (1) : 22-27.
- Lalman, D. L., D. H. Keisler, J. E. Williams, E. J. Scholljegerdes and D. M. Mallet. 1997. Influence of Postpartum Weight and Body Condition Score Change on Duration of Anestrus by Undernourished Suckled Beef Heifers. *Journal Animal Sci.* 75 (8) : 2003–2008.
- Lemma, A. 2010. Factors Affecting the Effective Delivery of Artificial Insemination and Veterinary Services in Ethiopia: Addis Ababa University Presentation to the Ethiopian Fodder Roundtable on Effective Delivery of Input Services to Livestock Development. A Presentation Report. A presentation Report.
- López-Gatiús, F., and J. L. Yaniz. 2000. Intraperitoneal Insemination and Retrograde Sperm Transport in Dairy Cows. *J. Vet. Med.* 47 (8) : 3– 8.

- López-Gatiús, F. 2012. Factors of a Noninfectious Nature Affecting Fertility After Artificial Insemination in Lactating Dairy Cows. A Review. *Theriogenology*. 77 (6) : 1029-1041.
- Love, C. C. 2016. Modern Techniques for Semen Evaluation. *Vet Clin North Am Equine Pract*. 32 (3) : 531-546.
- Lukman, H. Y., K. Khoironi, and Nikmaturrayan. 2022. Factors Affecting the Success of Artificial Insemination Program on Cattle in District of Woha, Bima. *J. Riset Veteriner Indonesia*. 6 (1) : 48-56.
- Maes, D., H. Nauwynck, T. Rijsselaere, B. Mateusen, P. Vyt, A. de Kruif, and A. Van Soom. 2008. Diseases in Swine Transmitted by Artificial Insemination : An Overview. *Theriogenology*. 70 (8) : 1337–1345.
- Ma'sum, M., A. V. S. Hubeis, A. Saleh, dan B. Saharjo. 2012. Persepsi Peternak Tentang Penerapan Inseminasi Buatan di Tiga Sentra Sapi Potong di Indonesia. *Jurnal Penyuluhan*. 8 (1).
- Maurice, P., Boland and Lonergan. 2003. Effect of Nutrition on Fertility in Dairy Cows. *Advanced Dairy Technology*. 15 (19).
- Menteri Pertanian Republik Indonesia. 2020. Peningkatan Produksi Sapi dan Kerbau Andalan Negeri. Jakarta.
- Milad, M. (2011). Artificial insemination in farm animals. InTech. Croatia.
- Mollah, M. F. K., Gofur, M. R., Asaduzzaman, K. M., and Bhuiyan, M. M. U. (2015). Conception rate of non-descript zebu cows and its attributing factors in Bangladesh. *Research Journal of Veterinary Sciences*. 8 : 42–51.
- Morrell, J. M. 2011. Artificial Insemination: Current and Future Trends. *Artificial Insemination in Farm Animals*. 1 : 1-14.
- Mohammed, A. 2018. Artificial Insemination and its Economical Significancy in Dairy Cattle. *Int. J. Res. Stud. Microbiol Biotechnol*. 4 (1).
- Moll, H. A. J., S. J. Staal, and M. N. M. Ibrahim. 2007. Smallholder Dairy Production and Markets: A Comparison of Production Systems in Zambia, Kenya and Sri Lanka. *Agric Syst*. 94 : 593-603.

- Morrison, D. G., J. C. Spitzer, and J. L. Perkins. 1999. Influence of prepartum body condition score change on reproduction in multiparous beef cows calving in moderate body condition. *Journal of animal Science*. 77 (5) : 1048-1054.
- Moss, J., P. Morley, D. Baker, H. Al Moadhen, and R. Downie. 2016. Improving Methods for Estimating Livestock Production and Productivity. University of New England. Technical Report Series No: GO-11-2016.
- Mulu, M., N. Moges, and M. Adane. 2018. Review on Process, Advantages and Disadvantage of Artificial Insemination in Cattle. *Int. J. Vet. Sci Anim Husbandry*. 3 (6) : 8-13.
- Mulyawati, I. M., D. Mardiningsih, dan S. Satmoko. 2016. Pengaruh Umur, Pendidikan, Pengalaman dan Jumlah Ternak Peternak Kambing terhadap Perilaku Sapta Usaha Beternak Kambing di Desa Wonosari Kecamatan Patebon. *Agromedia*. 34(1): 85-90.
- Novita, C. I., M. A. N. Abdullah, E. M. Sari, dan Z. Zulfian. 2019. Evaluasi Program Inseminasi Buatan pada Sapi Lokal Betina di Kecamatan Juli, Kabupaten Bireuen, Provinsi Aceh. *Jurnal Agripet*. 19 (1) : 31-39.
- Orihuela, A. 2000. Some Factors Affecting the Behavioural Manifestation of Oestrus in Cattle: A Review. *Animal Behaviour Science*. 70 (1) : 1-16.
- Osawa, T. 2014. International Perspectives on the Impacts of Reproductive Technologies on Food Production in Asia. *Advances in Experimental Medicine and Biology*. 752 : 213-228.
- Pereira, M. H., A. D. Rodrigues, T. Martins, W. V. Oliveira, P. S. Silveira, M. C. Wiltbank, and J. L. Vasconcelos. 2013. Timed Artificial Insemination Programs During the Summer in Lactating Dairy Cows: Comparison of the 5-d Cosynch Protocol with an Estrogen/Progesterone-Based Protocol. *J Dairy Sci*. 96 : 6904-6914
- Parera, H., D. F. Souhoka, and J. E. M. Serpara. 2011. Kemampuan Peternak Sapi Bali di Kecamatan Teon Nila Serua dalam Mendeteksi Estrus dan Menentukan Waktu Kawin. *Jurnal Agrinimal*. 1 (2) : 84-87.
- Partodihardjo, S. 1987. Ilmu Reproduksi Hewan. Cetakan ke-2. Mutiara Sumber Widya. Jakarta.

- Patel, G. K., N. Haque, M. Madhavatar, A. K. Chaudhari, D. K. Patel, N. Bhalakiya, N. Jamnesha, P. Patel, and R. Kumar. 2017. Artificial Insemination: A Tool to Improve Livestock Productivity. *J. Pharmacog. Phytochem. SP1*: 307-313.
- Prayitno, R. S. 2018. Analisis Usaha Ternak Indukan Sapi Peranakan Simental di Kecamatan Patean Kabupaten Kendal. *Agromedia*. 36 (1) : 97-105.
- Pryce, J. E., M. P. Coffey, and G. Simm. 2001. The Relationship Between Body Condition Score and Reproductive Performance. *J. Dairy Sci.* 84 (6) : 1508-1515.
- Purnomo, S. H., E. T. Rahayu, dan S. B. Antoro. 2017. Strategi Pengembangan Peternakan Sapi Potong Rakyat di Kecamatan Wuryantoro Kabupaten Wonogiri. *Buletin Peternakan*. 41 (4) : 484- 494.
- Razak, N. R., H. Herianto, A. K. Armayanti, dan M. E. Kurniawan. 2021. Pengaruh Karakteristik Peternak dan Adopsi Teknologi Terhadap Keberhasilan Inseminasi Buatan di Kecamatan Sinjai Barat Kabupaten Sinjai. *Jurnal Agrisistem: Seri Sosek Dan Penyuluhan*. 17 (2) : 111-118.
- Ritter, C., A. Beaver, and M. A. von Keyserlingk. 2019. The Complex Relationship Between Welfare and Reproduction in Cattle. *Reproduction in Domestic Animals*. 54 : 29-37.
- Rivera, H., H. Lopez, and P. M. Fricke. 2005. Use of Intravaginal Progesterone-Releasing Inserts in A Synchronization Protocol Before Timed AI and for Synchronizing Return to Estrus in Holstein Heifers. *Journal of Dairy Science*, 88(3), 957-968.
- Rusdiana, S., dan Soeharsono. 2017. Program Siwab Untuk Meningkatkan Populasi Sapi Potong Dan Nilai Ekonomi Usaha Ternak Siwab Forum Penelit. *Agro Ekon*. 35 : 125–37.
- Rodriguez-Martinez, H. 2005. Evaluation of Frozen Semen: Traditional and New Approaches. *Российский ветеринарный журнал. Сельскохозяйственные животные*. (2) : 24-26.
- Roelofs, J. B., F. J. C. M. Van Eerdenburg, N. M. Soede, and B. Kemp. 2005. Various Behavioral Signs of Estrous and their Relationship with time of Ovulation in Dairy cattle Adaptation Physiology. Wageningen and Utrecht Universities. The Netherlands. *Theriogenology*. 63 : 1366–1377.

- Roelofs, J. B., E. A. M. Graat, E. Mullaart, N. M. Soede, W. Voskamp-Harkema, and B. Kemp. 2006. Effects of Insemination–Ovulation Interval on Fertilization Rates and Embryo Characteristics in Dairy Cattle. *Theriogenology*. 66 (9) : 2173-2181.
- Roelofs, J., F. López-Gatius, R. H. F. Hunter, F. J. C. M. van Eerdenburg, and C. H. Hanzen. 2010. When is a Cow in Estrus? Clinical and Practical Aspects. *Theriogenology*. 74 (3) : 27– 44.
- Robinson J. J., C. J. Ashworth, J. A. Rooke, L. M. Mitchell, and T. G. McEvoy. 2006. Nutrition and Fertility in Ruminant Livestock. *Animal Feed Science and Technology*. 126 : 259–276.
- Rosita, E. A., T. Susilawati, dan S. Wahyuningsih. 2013. Keberhasilan IB Menggunakan Semen Beku Hasil Sexing dengan Metode Sedimentasi Putih Telur pada Sapi PO Cross. *Jurnal Ilmu-Ilmu Peternakan*. 24 (1) : 72 – 76.
- Sakkas, D., M. Ramalingam, N. Garrido, and C. L. R. Barratt. 2015. Sperm Selection in Natural Conception: What Can We Learn From Mother Nature to Improve Assisted Reproduction Outcomes?. *Human Reproduction*. 21 (6) : 711-726.
- Santos, J. E. P., W. W. Thatcher, R. C. Chebel, R. L. A. Cerri, and K. N. Galvão. 2004. The Effect of Embryonic Death Rates in Cattle on the Efficacy of Estrus Synchronization Programs. *Anim. Reprod. Sci.* 82 : 513–535.
- Sartika, N. W. Y., and I. G. Sanica. 2020. Population Growth Strategies In Increasing The Existence Of Balinese Cattle: Swot Analysis Approach. *Journal of Archaeology of Egypt/Egyptology*. 17 (8) : 793-799.
- Sato, K., and T. Fujita. 2010. Elucidation of Genes Involved in the Conception Rates of Cows Decrease. *Bulletin of the Oita Prefectural Animal Industry Experiment Station*. 39 : 17–19.
- Seidel, G. E., and J. L. Schenk. 2008. Pregnancy Rates in Cattle With Cryopreserved Sexed Sperm: Effects of Sperm Numbers Per Inseminate Aand Site of Sperm Deposition. *Animal Reproduction Science*. 105 : 129–138.
- Sharma, S., and M. Singh. 2012. Mycotic Endometritis in Cows and its Therapeutic Management. *Intas Polivet*. 13 (1) : 29-30.
- Sharma, S., M. Singh, N. K. Vasishta, and N. S. Sharma. 2008. Mycotic Isolations from the Uterus of Endometritic Cows and Buffaloes in Himachal Pradesh. *Indian J. Anim. Sci.* 78 : 961-962.

- Siagian, S. P. 2009. *Administrasi Pembangunan*. Jakarta: Bumi Aksara.
- Singh, J., D. Dadarwal, M. Honparkhe, and A. Kumar. 2008. Incidences of Various Etiological Factors Responsible for Repeat Breeding Syndrome in Cattle and Buffaloes. *The Inter. J. Vet. Med.* 6 (1) : 1-6.
- Singh, M. and H. C. Pant. 1998. Factors Responsible for AI Failure in the Field. *Indian Vet. J.* 75 : 1128-1129.
- Sirajuddin, S. N., I. Sudirman, L. D. Bahar, A. R. Al Tawaha, and A. R. Al Tawaha. 2018. Social Economic Factors that Affect Cattle Farmer's Willingness to Pay for Artificial Insemination Programs. *Bulgarian Journal of Agricultural Science.* 24 (4) : 574-580.
- Speckhart, S. L., S. T. Reese, G. A. Franco, T. B. Ault, R. V. Oliveira Filho, A. P. Oliveira, ... and K. G. Pohler. 2018. Invited Review: Detection and Management of Pregnancy Loss in the Cow Herd. *The Professional Animal Scientist.* 34 (6) : 544-557.
- Spitzer, J. C., D. G. Morrison, R. P. Wettemann and L. C. Faulkner. 1995. Reproductive Responses, Calf Birth and Weaning Weight as Affected by Body Condition at Parturition and Postpartum Weight Gain in Primiparous Beef Cows. *Journal Animal Sci.* 73 : 1251-1257.
- Suarez, S. S. S., and A. A. Pacey. 2005. Sperm Transport in the Female Reproductive Tract. *Hum Reprod Update.* 12 : 23-37.
- Sudrajat, I. S., E. S. Rahayu, Kusnandar and Supriyadi. 2017. Effect of Social Factors in Stochastic Frontier Profit of Organic Rice Farming in Boyolali. *Bulgarian Journal of Agricultural Science.* 23 (4) : 551-559.
- Sugiyono. 2012. *Statistika Untuk Penelitian*. Alfabeta. Bandung.
- Suranjaya, I. G., N. P. Sarini, dan D. Dewantari. 2020. Identifikasi faktor-faktor berpengaruh terhadap kinerja inseminator dalam menunjang keberhasilan inseminasi buatan pada Program Upsus Siwab di Bali. *Majalah Ilmiah Peternakan.* 23 (2) : 72-77.
- Susilawati, T. 2011. *Spermatology*. UB Press. Malang. Indonesia.
- . 2013. *Pedoman Inseminasi Buatan pada Ternak*. Universitas Brawijaya Press. Malang.

- Sutawidjaya. M. S. 2000. Statistik Sosial. Bandung: Fakultas Pertanian Universitas Padjadjaran.
- Syakir, A. 2023. Evaluasi Inseminasi Buatan Program Sikomandan Pada Ternak Sapi Di Kecamatan Muara Batu Kabupaten Aceh Utara Provinsi Aceh. *Jurnal Peternakan (Jurnal of Animal Science)*. 7 (2) : 74-81.
- Tanga, B. M., Qamar, A. Y., Raza, S., Bang, S., Fang, X., Yoon, K., and Cho, J. 2021. Semen evaluation: Methodological advancements in sperm quality-specific fertility assessment—A review. *Animal Bioscience*, 34 (8) : 1253.
- Tarmizi, N. B. 2018. Keberhasilan Inseminasi Buatan (IB) pada Sapi Aceh Menggunakan Semen Beku Sapi Bali, Simental, dan Limosin di Kecamatan Masjid Raya Kabupaten Aceh Besar. *Jurnal Ilmiah Mahasiswa Veteriner*. 2 (3) : 318-328.
- Thakur, S., M. Singh, and N. K. Vasishta. 2006. Studies on the Semen Quality at Different Veterinary Institutions. *Indian J. Anim. Reprod.* 27 : 59-61.
- Timpe, A. D. 2000. *Seri Manajemen Sumber Daya Manusia*. Gramedia. Jakarta.
- Toelihere, M. R. 1993. *Reproduksi dan Inseminasi Buatan Pada Ternak*. Angkasa. Bandung.
- Turner, R. M. 2006. Moving to the Beat: A Review of Mammalian Sperm Motility Regulation. *Reprod Fertil Dev.* 18 : 25–38.
- Utami, T., dan T. C. Tophianon. 2014. Pengaruh suhu thawing pada kualitas spermatozoa sapi pejantan Friesian Holstein. *Jurnal Sain Veteriner* 32 (1): 0126 – 0421.
- Waller, E. J., P. Roberts, and P. Matson. 2019. Assessment of Sperm Motility, and Its Relationship With Sperm Function and Fertility. *J Reprod Biotechnol Fertil.* 8 : 30-53.
- Wahyudi, L., T. Susilawati, dan S. Wahyuningsih. 2013. Tampilan Reproduksi Sapi Perah pada Berbagai Paritas di Desa Kemiri Kecamatan Jabung Kabupaten Malang. *J. Ternak Tropika*. 14 (2) : 13-22.
- Widi, T. S. M. 2015. Mapping the Impact of Crossbreeding in Small Holder Farming Systems in Indonesia. PhD Thesis. Wageningen University. Netherlands.

- Widodo, F. T. 2009. Hubungan antara Jumlah Leukosit dengan Motilitas Sperma pada Hasil Analisa Sperma Pasien Infertilitas di RSUP DR KARIADI Semarang. Skripsi. Universitas Diponegoro. Semarang.
- Xu, S. Y., D. Wu, H. Y. Guo, A. R. Zheng, and G. Zhang. 2010. The Level of Feed Intake Affects Embryo Survival and Gene Expression During Early Pregnancy in Gilts. *Reproduction of Domestic Animals* 45 :10-15.
- Yeshitila, B., T. Belege, and H. Muhammed. 2019. Eficiency of Artificial Insemination in Dairy Cows in and Around Kombolcha Town, South Wollo, Ethiopia. *Journal of Dairy & Veterinary Sciences*. 13 (5).
- Yusuf, M. 2016. Tingkat Keberhasilan Inseminasi Buatan (IB) berdasarkan Conception Rate dan Service Per Conception di Kabupaten Polewali Mandar. Skripsi. Universitas Islam Negeri Alauddin. Makassar.

