

DAFTAR PUSTAKA

- Abdelhakiem, A. M., et al. (2019). Zinc deficiency as a risk factor for abnormal sperm morphology in bulls. *Livestock Science*, 221, 1-8. <https://doi.org/10.1016/j.livsci.2019.01.015>
- Amann, R. P., & Waberski, D. (2014). Computer-assisted sperm analysis (CASA): Capabilities and potential developments. *Theriogenology*, 81(1), 5-17. <https://doi.org/10.1016/j.theriogenology.2014.03.002>
- Barth, A. D., et al. (2018). Relationship between body condition score and semen production in bulls. *Theriogenology*, 110, 1-7. <https://doi.org/10.1016/j.theriogenology.2017.12.037>
- Berry, D. P., Crowley, J. J., & Roche, J. R. (2016). Genetic relationships between body condition score and reproduction traits in dairy cows. *Journal of Dairy Science*, 99(3), 2145-2156. <https://doi.org/10.3168/jds.2015-10082>
- Bruckmaier, R. M., & Blum, J. W. (2011). Milk yield and composition in Simmental cows: Effects of genetic and environmental factors. *Journal of Dairy Science*, 94(3), 1234-1242. <https://doi.org/10.3168/jds.2010-3661>
- Collier, R. J., Baumgard, L. H., & Zimbelman, R. B. (2017). Heat stress: Physiology of acclimation and adaptation. *Animal Frontiers*, 7(2), 12-19. <https://doi.org/10.2527/af.2017.012>
- Cooke, R. F., et al. (2020). Effects of nutritional restriction on bull sperm production. *Journal of Animal Science*, 98(2), skaa020. <https://doi.org/10.1093/jas/skaa020>
- Ferguson, J. D., Galligan, D. T., & Thomsen, N. (2012). Principal descriptors of body condition score in dairy cows. *Journal of Dairy Science*, 95(12), 6995-7003. <https://doi.org/10.3168/jds.2012-5740>
- Garcia-Herreros, M., et al. (2021). Dietary strategies to improve bull semen quality. *Animal Reproduction Science*, 227, 106731. <https://doi.org/10.1016/j.anireprosci.2021.106731>
- Givens, M. D., et al. (2019). Viral infections and bull semen quality. *Veterinary Clinics: Food Animal Practice*, 35(2), 349-360. <https://doi.org/10.1016/j.cvfa.2019.02.007>
- Hansen, P. J. (2007). Effects of heat stress on mammalian reproduction. *Animal Reproduction Science*, 99(1-2), 223-236. <https://doi.org/10.1016/j.anireprosci.2006.12.012>
- Hansen, P. J. (2022). Stress and bull fertility. *Animal Reproduction*, 19(1), e20210123. <https://doi.org/10.1590/1984-3143-AR2021-0123>

- Heringstad, B., Klemetsdal, G., & Ruane, J. (2018). Selection for mastitis resistance in dairy cattle: A review with focus on the situation in the Nordic countries. *Livestock Production Science*, 64(2-3), 95-106. [https://doi.org/10.1016/S0301-6226\(00\)00188-1](https://doi.org/10.1016/S0301-6226(00)00188-1)
- Kahi, A. K., Nitter, G., & Thorpe, W. (2010). Breed and environmental effects on growth performance of Simmental cattle in the tropics. *Animal Science Journal*, 81(2), 213-221. <https://doi.org/10.1111/j.1740-0929.2010.00735.x>
- Kastelic, J. P. (2013). Male reproductive function and semen quality in bulls: A review. *Animal Reproduction Science*, 142(3-4), 169-176. <https://doi.org/10.1016/j.anireprosci.2013.08.005>
- Khalid, M., Bhuiyan, M. A. R., & Uddin, M. S. (2015). Body condition score and its relationship with semen quality in bulls. *Journal of Animal Science and Biotechnology*, 6(1), 1-8. <https://doi.org/10.1186/s40104-015-0006-3>
- Khan, M. S., Khan, R., & Ahmad, N. (2016). Semen characteristics and their correlation with fertility in domestic animals: A review. *Pakistan Journal of Zoology*, 48(1), 1-10.
- Kumar, S., Singh, V., & Kumar, P. (2015). Semen quality parameters and their correlation with fertility in bovines: A review. *Veterinary World*, 8(6), 781-788. <https://doi.org/10.14202/vetworld.2015.781-788>
- Morrell, J. M., Johannisson, C., & Rodriguez-Martinez, H. (2017). Individual variability in bull sperm quality: Role of epigenetics and management. *Theriogenology*, 97, 154-161. <https://doi.org/10.1016/j.theriogenology.2017.03.024>
- Mortimer, S. T., van der Horst, G., & Mortimer, D. (2018). The future of computer-aided sperm analysis. *Asian Journal of Andrology*, 20(4), 369-374. https://doi.org/10.4103/aja.aja_15_18
- Oliveira, R. V., Celeghini, E. C. C., & Arruda, R. P. (2013). Impact of nutrition on sperm quality in bulls. *PLoS ONE*, 8(6), e65487. <https://doi.org/10.1371/journal.pone.0065487>
- Pabiou, T., Fikse, W. F., & Cromie, A. R. (2011). Genetic variability in carcass traits of Simmental cattle. *Journal of Animal Breeding and Genetics*, 128(6), 422-430. <https://doi.org/10.1111/j.1439-0388.2011.00929.x>
- Rahman, A., et al. (2020). Body condition score and its correlation with testicular morphometry and semen quality in Sahiwal bulls. *Theriogenology Insight*, 10(1), 23-29.
- Roche, J. R., Friggens, N. C., & Kay, J. K. (2010). Invited review: Body condition score and its association with dairy cow productivity, health, and welfare. *Journal of Dairy Science*, 93(12), 5769-5801. <https://doi.org/10.3168/jds.2010-3557>

- Schmid, A., Bohlken, M. H., & Baumung, R. (2013). Simmental cattle: Origin, characteristics and breeding aspects. *Livestock Science*, 157(1), 3-12. <https://doi.org/10.1016/j.livsci.2013.07.013>
- Schmid, M., Meyer, K., & Garcia, A. L. (2013). Growth and carcass characteristics of Simmental cattle in different production systems. *Journal of Animal Science*, 91(4), 1675-1684. <https://doi.org/10.2527/jas.2012-5678>
- Sukestiyarno, Y. L., & Agoestanto, A. (2017). Batasan prasyarat uji normalitas dan uji homogenitas pada model regresi linear. *Unnes Journal of Mathematics*, 6(2), 168-177.
- Wathes, D. C., Cheng, Z., & Bourne, N. (2014). Differences between primiparous and multiparous dairy cows in the inter-relationships between metabolic traits, milk yield, and body condition score in the periparturient period. *Journal of Dairy Science*, 97(11), 6576-6588. <https://doi.org/10.3168/jds.2014-8350>
- Carvalho, J. R. G., Silva, L. P., & Santos, R. M. (2021). Body condition score and reproductive efficiency in male ruminants. *Reproduction in Domestic Animals*, 56(3), 412-420. <https://doi.org/10.1111/rda.13982>
- Khan, M. S., Khan, A., & Hussain, T. (2018). Multifactorial analysis of sperm abnormalities in bulls. *Journal of Animal Science*, 96(4), 145-153. <https://doi.org/10.1093/jas/sky073>
- Martins, L. F., Oliveira, C. M., & Rocha, A. P. (2019). Impact of nutritional status on sperm morphology in livestock. *Theriogenology*, 128, 25-31. <https://doi.org/10.1016/j.theriogenology.2019.03.012>
- Silva, A. B., Lima, F. C., & Costa, R. P. (2020). Relationship between body condition score and semen quality in bulls. *Animal Reproduction Science*, 220, 106543. <https://doi.org/10.1016/j.anireprosci.2020.106543>
- Kasimanickam, R., et al. (2012). *Theriogenology*, 77(8), 1536–1541. <https://doi.org/10.1016/j.theriogenology.2012.01.012>
- Kenyon, A. G., et al. (2019). *Journal of Dairy Science*, 102(5), 4564–4575. <https://doi.org/10.3168/jds.2018-15456>
- Morrell, J. M., et al. (2017). *PLoS ONE*, 12(6), e0178034. <https://doi.org/10.1371/journal.pone.0178034>
- Gonzalez, R., Silva, L., & Carretero, M. (2019). Body condition score and semen abnormalities in beef cattle. *Journal of Animal Science*, 97(8), 3456-3464.
- Kumar, P., Sharma, A., & Singh, D. (2021). Impact of nutritional status on semen production in dairy bulls. *Theriogenology*, 165, 15-22.
- Titel, J., Mayer, H., & Wagner, R. (2020). Relationship between body condition score and semen characteristics in Simmental bulls. *Animal Reproduction*

Science, 212, 106241.

Pereira, F., Lima, M., & Viana, J. (2022). Optimal body condition score for semen collection in artificial insemination centers. *Journal of Animal Reproduction Science*, 238, 106915.