Judul Jurnal Ilmiah (Artikel) : Level of sodium chloride (NaCl) and profile of cervical mucus of dairy cattle at various age synchronized by prostaglandine Animal Agriculture
Jumlah Penulis : 4 orang
Status Pengusul : penulis utama
Identitas Jurnal Ilmiah :
   a. Nama Jurnal : Journal of the Indonesian Tropical Animal Agriculture
   b. Nomor ISSN : pISSN 2087-8273 eISSN 2460-6278
   c. Volume, nomor, bulan tahun : Vol. 44(4): 364-371, December 2019
   d. Penerbit : Fak. Pternakan dan Pertanian Undip
   e. DOI artikel (jika ada) : https://doi.org/10.14710/jitaa.44.4.364-371
   f. Alamat web jurnal : https://ejournal.undip.ac.id/index.php/jitaa/article/view/25028/pdf
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Semarang, Desember 2019
Reviewer 1

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JUDUL JURNAL: Level of sodium chloride (NaCl) and profile of cervical mucus of dairy cattle at various age synchronized by prostaglandine

NAMA JURNAL: Journal of The Indonesian Tropical, Animal Agriculture
Nomor ISSN: pISSN 2087-8273 Eissn 2460-6278
Volume, nomor, bulan tahun: Vol. 44(4): 364-371, Desember 2019
Penerbit: Fak. Peternakan dan Pertanian Undip

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Semarang, 28 Desember 2019
Reviewer 2

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Objectives of this study were to compare the percentage of Sodium Chloride (NaCl) and cervical mucus profile which includes potential of Hydrogen (pH), abundance of cervical mucus, spinnbarkeit and ferning of dairy cattle at different age during estrus cycle. Thirty Two head of dairy cattle were used as materials which are 2 years old (n = 2), 3 years old (n = 18), 4 years old (n = 8) and 5 years old (n=4). Dairy cattle were estrus synchronized using 50 mg/head of prostaglandin. Data was collected on 48, 72, 78, 84, 90, 120, 144 and 408 hours after prostaglandin administration. The data were analyzed by using non parametric statistic which was Kruskal-Wallis H test. The significant data was tested with Mann-Whitney U test. The result showed that the abundance of cervical mucus was significantly different (P<0.05; χ² = 0.011) on 84 hours after estrus synchronization. However, level of NaCl, abundance, spinnbarkeit and ferning of cervical mucus was not significantly different. In conclusion, the age of dairy cattle did not affected to the condition NaCl percentage, spinnbarkeit, pH and ferning of cervical mucus, but affected to the abundance of cervical mucus on 84 hours after administration of prostaglandine. © 2019 Diponegoro University. All rights reserved.
1. Agustina, T. (2016) *Outlook Susu*. Pusat Data dan Sistem Pertanian Subsektor Peternakan Kementrian Pertanian, Jakarta.

2. Bernardi, S., Rinaudo, A., Marini, P. (2016) *Iranian Journal of Veterinary Research*, 17(1), pp. 45-49. doi: 10.11553/antibiotics1968b.46.726

3. Chimura, T., Hirayama, T., Takase, M. (1993) *Japanese Journal of Antibiotics*, 46(8), pp. 726-729. doi: 10.11553/antibiotics1968b.46.726

4. Hafez, B., Hafez, E.S.E. (2000) *Reproduction in Farm Animals 7th Edition*. Lippincot William and Wilkins, Philadelphia.

5. Lu, K.G., Morresey, P.R. (2006) *Veterinary Clinics of North America - Equine Practice*, 22(2), pp. 519-552. doi: 10.1016/j.cveq.2006.03.010

6. Makmun, A., Samsudewa, D., Ondho, Y.S. Levels NaCl and pH mucous of female Timor deer (Rusa timorensis) getting mineral supplementation during estrous cycle (2017) *J. Sains Peternakan Indonesia*, 12(3), pp. 299-307. Cited 3 times.

7. Murugavel, K., Lopez-Gatius, F. Newtonian behaviour of the vaginal fluid as a risk indicator of reduced fertility in cows (2009) *Indian Veterinary Journal*, 86(12), pp. 1288-1289. Cited 4 times.

8. Purwaningsih, W., Samsudewa, D., Ondho, Y.S. Cervical mucus profile on female Timor deer (Rusa timorensis) with mineral supplementation within each estrous phase (2018) *J. Sains Peternakan Indonesia*, 13(2), pp. 202-213.

9. Roelofs, J., López-Gatius, F., Hunter, R.H.F., van Eerdenburg, F.J.C.M., Hanzen, C. When is a cow in estrus? Clinical and practical aspects (2010) *Theriogenology*, 74(3), pp. 327-344. Cited 159 times. doi: 10.1016/j.theriogenology.2010.02.016

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Samsudewa, D., Setiatin, E.T., Ondho, Y.S., Isroli, Lestari, D.A. (2019). Estrogen level and cervical mucus of Timor hind (Rusa timorensis) after mineral block supplementation during estrous cycle. *IOP Conference Series: Materials Science and Engineering*, 509 (1), art. no. 012030. https://iopscience.iop.org/journal/1757-899X
doi: 10.1088/1757-899X/509/1/012030
View at Publisher

Sophian, E., Afiati, F. (2016). Peranan bioteknologi dalam peningkatan kualitas ternak. *J. BioTrends.*, 7 (1), pp. 42-47.

Susilawati, T. (2011). Tingkat keberhasilan inseminasi buatan dengan kualitas dan deposisi semen yang berbeda pada sapi peranakan Ongole. *J. Ternak Tropika.*, 12 (2), pp. 15-24. Cited 4 times.

Tanjug, A.D., Setiatin, E.T., Samsudewa, D. (2015). Level of estrogen hormone and estrus performance of different postpartum estrus of jawa randu goat. *Journal of the Indonesian Tropical Animal Agriculture*, 40 (2), pp. 87-92. https://ejournal.undip.ac.id/index.php/jitaa/article/view/9154/7412
doi: 10.14710/jitaa.40.2.87-92
View at Publisher

Widiyono, I. (2013). Preview of estrogen, progesteron and an electrolyte plasma and the act of kidney on sodium, kalium and chlorin of Bligon goat's estrous cycle. *Anim. Prod.*, 15 (3), pp. 153-158.

Yavari, M., Haghkhah, M., Ahmadi, M.R., Gheisari, H.R., Nazifi, S. (2009). Comparison of cervical and uterine cytology between different classification of postpartum endometritis and bacterial isolates in holstein dairy cows. *International Journal of Dairy Science*, 4 (1), pp. 19-26. Cited 12 times. http://scialert.net/qredirect.php?doi=ijds.2009.19.26&linkid=pdf
doi: 10.3923/ijds.2009.19.26
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The front cover illustrates the sketch of leaves and seeds of legume and grass forming a buffalo’s horn (designed by Agung Purnomoaidi)
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