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PARANHOS da COSTA, M. J. R.; ANDRIOLO, A. Allonursing and weigh gain in water buffalo calves (Bubalus bubalis). In: PROCEEDINGS OF THE 30TH INTERNATIONAL CONGRESS OF THE INTERNATIONAL SOCIETY FOR APPLIED ETHOLOGY, 30, 1996, Guelph. **Anais...** Guelph. 1996. p.126.

ALLONURSING AND WEIGHT GAIN IN WATER BUFFALO CALVES (Bubalus bubalis)

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Allonursing is part of the behavioural repertoire of water buffalo cows. The effects of this behaviour on the weight gain of calves were investigated in a dairy herd at an experimental station in the state of São Paulo, Brazil. Twenty nine cows and their calves were observed on range from birth to weaning (10 months), 3 days per month. These observations were carried out while the calves were in a pasture together with their mothers, from 1000 to 1600 h each day. Sucking behaviour was recorded as follows: recording began when the calves succeeded in getting a teat into its mouth for, at least, 3 seconds, ending when the teats were set free. All animals were weighed monthly. Daily average of time spend sucking was estimated when calves sucked on their own mothers (TM = alone and TMC = collective) and on any other cows than their own mothers (TO = alone and TOC = collective). Two periods were considered: first four months of age (U4) and first eight months of age (U8). The averages were compared by t-test and the Pearson's correlation coefficients were estimated. Males (n = 14) presented higher means than females (n = 15) for weight gain per day (WG), TM and TOC (U8 only), as follows: WG U4 = 0.49 ± 0.13 kg and 0.39 ± 0.11 kg (P<0.01); WG U8 = 0.43 ± 0.09 kg and 0.33 ± 0.08 kg (P<0.01); TM U4 = 5.03 ± 2.67 min and 1.70 ± 2.15 min (P<0.001); TM U8 = 2.96 ± 1.38 min and 0.98 ± 1.38 1.09 min (P<0.001); TOC U8 = 6.80 ± 4.23 min and 3.64+3.23 min (P<0.05), respectively for males and females. Correlation coefficients were significant between TM and WG for males (r = 0.610 and 0.719, for U4 and U8 respectively; P<0.05), while for females there were significant correlations between TOC and WG (r = 0.526 and 0.644, for U4 and U8 respectively; P<0.05) and between TMC and WG for U4 (r = -0.518, P<0.05). It was concluded that allonursing affected the weight gain of calves, but in a different way for each sex.

Acknowledgement

This research was supported by Fundanesp and Fapesp.

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