

عنوان مقاله:

Changes in electrocardiographic indices during the first two days of life in lambs and goat kids

محل انتشار:

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خلاصه مقاله:

In the current study, we aimed to establish reference values for most important electrocardiographic (ECG) indices during the first two days of life in lambs and goat kids. A total of 40 animals (20 lambs and 20 goat kids) were enrolled into the study from birth to two days of age. The neonates were born to Kermani ewes and Cashmere (Raini) does of 3 years of age weighing 42 ± 1 and 30 ± 2 kg, respectively. Heart rate (HR) was significantly decreased within the first 48 and 24 h after birth, respectively ($P < 0.01$). Amplitudes and durations of P, QRS and T waves were not significantly changed from baseline during the first two days of life. The lengths of PR and RR intervals were significantly prolonged during the first 48 h after birth ($P < 0.01$). There were significant differences ($P < 0.05$) in the prevalence of cardiac arrhythmias during the entire course of experiment. It is concluded that ECG indices showed age-related differences in newborn lambs and goat kids during the 48 h study period. The author suggested that the changes in ECG indices could be attributed to both colostrum absorption and physiological development of a newborn.

کلمات کلیدی:

Birth, Electrocardiographic indices, goat kids, lambs

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