Abstract:

The importance of cardiovascular system has led to conducting numerous studies on various animals for definition and treatment of cardiac diseases. ECG is an unexpensive noninvasive technique which provides helpful data for categorization of arrhythmias and diagnosis of cardiac conductive disorders. Bezoar goat is among wild animals which has greater body comparing with domestic goats and is found in all regions especially in mountains. The aim of this study was to collect data about heart rythm and beat, Duration and Amplitude of ECG waves and the mean of electrical axis for normal ECG design.

In the present study, 17 head Bezoar goat included both male and female sex were entered to study and the electrocardiographic Parameters was described. The mean heart rate, mean of electrical axis, Duration and Amplitude of variius waves of ECG and PR, QT, RR intervals and reformed QT interval for 6 limb standard leads (I,II,III,aVR, aVL,aVF) and base-apex lead were calculated.

The average rate of heart beat in Bezoar goat was (172.63±35.08) bpm, the mean electerical apex was (110.095±41.33) degree, Duration of P, QRS and T waves were(0.032±0.0099), (0.047±0.0095) and (0.052±0.01) Secend Respectively, the amplitude of P and T waves were (0.071±0.029), (0.17±0.108) mv respectively and PR, QT, RR intervals and reformed QT interval were calculated as (0.08±0.019),(0.221±0.042),(0.36±0.095)and(0.37±0.06) secend respectively.

The normal ECG of Bezoar goat is not very different from other wild animals. Base-apex lead in the present study provided a acceptable ECG pattern and can be reliable lead in Bezoar goat.

Keyword: heart, electrocardiography, bezoar goat`

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