

## عنوان مقاله:

Estimation of gestational age using ultrasonography in Baluchi sheep

## محل انتشار:

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## خلاصه مقاله:

The aim of this study was to evaluate the correlation between some fetal parameters measured by ultrasonography and fetal age for developing a formula which could be used for estimation of fetal age in Baluchi sheep. Placentome diameter (PD), gestation Sac diameter (GSD), biparietal diameter (BPD), straight crown-rump length (CRL), femoral length (FL), occipito-snout diameter (OSD), thoracic diameter (TD) and fetal heart rate (FHR) were measured by transrectal and/or transabdominal ultrasonography. All ewes were synchronized using progesterone sponge for ۶ days. On the first day, they received PGF<sub>2</sub> and on the last day received ۴۰۰ IU of equine serum gonadotrophin (eCG). All of the parameters revealed significant correlation by increasing fetal age. Except for PD, for other values linear regression curve was illustrated. BPD (between ۳۶ - ۹۶ days) ( $R^2 = 0.961$ ), CRL ( $R^2 = 0.935$ ), FL ( $R^2 = 0.950$ ), OSD ( $R^2 = 0.981$ ), TD ( $R^2 = 0.975$ ) showed high correlation with fetal age ( $p < 0.001$ ). Moderate correlation was calculated for FHR ( $p < 0.001$ ,  $R^2 = 0.883$ ). Low correlations were assessed by measurement of GSD ( $p = 0.018$ ,  $R^2 = 0.318$ ), BPD (between ۹۶-۱۳۸ days;  $p = 0.038$ ,  $R^2 = 0.29$ ) and PD represented the significant non-linear correlation with age ( $p < 0.001$ ), maximum correlation was assessed by measurement of mean placentome wall diameter. In conclusion, OSD was recommended as the best parameter for estimating of gestational age between days ۳۶ - ۱۰۹ in Baluchi sheep because of the lowest residuals, the highest correlation coefficient and wide period of availability for imaging in gestation.

## کلمات کلیدی:

Baluchi sheep, Fetal age, Ultrasonography

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