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Measurement of Qashqaeian Sheep Fetus Parameters by Ultrasonography

Authors : Aboozar Dehghan, S. Sharifi, S. A. Dehghan, Ali Aliabadi, Arash Esfandiari

Abstract : Ultrasonography is a safe, available and particular method in diagnostic imaging science. In ultrasonography most of body soft tissue imaged in B mode display. Iranian Qashqaeian sheep is an old and domestic breed in Zagros mountain area in central plateau of Iran. Population of this breed in Fars state (study location) is 250000 animals. Gestation age detection in sheep was performed by ultarasonography in Kivircik breed in 2010 in turkey. In this study 5 adult, clinically healthy, Iranian ewes and 1 Iranian ram were selected. We measured biparital diameter that thickened part of fetal skull include (BPD), trunk diameter (TD), fetal heart diameter(FHD), intercostals space of fetus (ICS) and fetal heart rate per minute (FHR) weekly after day 60 after pregnancy. Inguinal area in both sides shaved and cleaned by alcohol 70 degree and covered by enough copulating gel. Trans abdominal Ultarasonography was performed by a convex multi frequency transducer with 2.5-5 MHz frequency. Data were collected and analyzed by on way Annova method in Spss15 software. Mean of BPD, TD, FHD and ICS in day 60 were 14.58, 25.92, 3.53, 2.3mm. FHR can measure on day 109 to 150. TD after day 109 cannot displayed in 1 frame in scanning. Ultrasonography in sheep pregnancy is a particular method. Using this study can help in theriogeniologic disease that affected fetal growth. Differentiating between various sheep breed is a functional result of this study.

Keywords : qashqaeian sheep, fetometry, ultrasonography
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