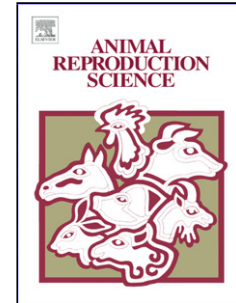


## Accepted Manuscript

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PII: S0378-4320(18)30183-0  
DOI: <https://doi.org/10.1016/j.anireprosci.2018.04.001>  
Reference: ANIREP 5816

To appear in: *Animal Reproduction Science*

Received date: 19-2-2018  
Revised date: 23-3-2018  
Accepted date: 3-4-2018

Please cite this article as: Lemley CO, Camacho LE, Hallford DM, Vonnahme KA, Uteroplacental secretion of progesterone and estradiol-17 $\beta$  in an ovine model of intrauterine growth restriction, *Animal Reproduction Science* (2010), <https://doi.org/10.1016/j.anireprosci.2018.04.001>

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**Uteroplacental secretion of progesterone and estradiol-17 $\beta$  in an ovine model of intrauterine growth restriction**

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**ABSTRACT**

Using a mid to late gestation model of intrauterine growth restriction, uteroplacental secretion of progesterone and estradiol-17 $\beta$  were examined. From day 50 to 130 of gestation, 31 ewe lambs were allocated to receive 100% (ADQ) or 60% (RES) of nutrient requirements. At day 130, umbilical and uterine artery blood flows were determined and blood samples were collected from maternal saphenous artery, gravid uterine vein, umbilical vein, and umbilical artery. Uteroplacental secretion of progesterone was increased in RES compared to ADQ fed dams. There was a net secretion and net metabolism of estradiol-17 $\beta$  in RES, and ADQ fed dams, respectively.

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