

Accepted Manuscript

Title: Serum progesterone concentrations during FSH superstimulation of the first follicular wave affect embryo production in sheep

Authors: F. Cuadro, P.C. dos Santos-Neto, A. Pinczak, N. Barrera, M. Crispo, A. Menchaca



PII: S0378-4320(18)30623-7
DOI: <https://doi.org/10.1016/j.anireprosci.2018.08.011>
Reference: ANIREP 5913

To appear in: *Animal Reproduction Science*

Received date: 25-6-2018
Revised date: 23-7-2018
Accepted date: 8-8-2018

Please cite this article as: Cuadro F, dos Santos-Neto PC, Pinczak A, Barrera N, Crispo M, Menchaca A, Serum progesterone concentrations during FSH superstimulation of the first follicular wave affect embryo production in sheep, *Animal Reproduction Science* (2018), <https://doi.org/10.1016/j.anireprosci.2018.08.011>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Serum progesterone concentrations during FSH superstimulation of the first
follicular wave affect embryo production in sheep

F. Cuadro^{a,b}, P.C. dos Santos-Neto^{a,b}, A. Pinczak^a, N. Barrera^a, M. Crispo^{b,c}, A.
Menchaca^{a,b*}

^aInstituto de Reproducción Animal Uruguay, Fundación IRAUy, Camino Cruz del Sur 2350, Montevideo, Uruguay.

^bPrograma de Posgrado, Facultad de Veterinaria, Universidad de la República, Av. Lasplacas, 1550, Montevideo, Uruguay.

^cUnidad de Animales Transgénicos y de Experimentación, Institut Pasteur de Montevideo, Mataojo 2020, Montevideo, Uruguay.

*Corresponding author: menchaca.alejo@gmail.com

Highlights

- The effect of progesterone (P4) during wave 1 was evaluated in FSH treated sheep.
- P4 treatment increased circulating P4 without affecting estradiol concentrations.
- Fertilization rate and embryo quality was improved in P4 treated ewes.
- We recommend the induction of high P4 concentrations during the FSH treatment.

ABSTRACT

The aim of the present study was to evaluate the effect of serum progesterone concentrations during the superstimulatory treatment of the first follicular wave on fertilization rate and embryo development in sheep. A total of 71 Merino ewes received a superstimulatory FSH treatment during Wave 1 of ovarian follicular development (Day 0 Protocol), which was administrated under low progesterone concentrations typical of the early luteal phase (control group, $n = 33$) or under high progesterone concentrations induced by the administration of an intravaginal device from Day 0 to Day 3 containing

Download English Version:

<https://daneshyari.com/en/article/8949590>

Download Persian Version:

<https://daneshyari.com/article/8949590>

[Daneshyari.com](https://daneshyari.com)