Accepted Manuscript

Effects of preovulatory follicle size on estradiol concentrations, corpus luteum diameter, progesterone concentrations and subsequent pregnancy rate in buffalo cows (*Bubalus bubalis*)

A.K. Pandey, S.P.S. Ghuman, G.S. Dhaliwal, M. Honparkhe, J.B. Phogat, S. Kumar

PII: S0093-691X(17)30533-2

DOI: 10.1016/j.theriogenology.2017.10.048

Reference: THE 14331

To appear in: Theriogenology

Received Date: 4 February 2017

Revised Date: 25 October 2017

Accepted Date: 30 October 2017

Please cite this article as: Pandey AK, Ghuman SPS, Dhaliwal GS, Honparkhe M, Phogat JB, Kumar S, Effects of preovulatory follicle size on estradiol concentrations, corpus luteum diameter, progesterone concentrations and subsequent pregnancy rate in buffalo cows (*Bubalus bubalis*), *Theriogenology* (2017), doi: 10.1016/j.theriogenology.2017.10.048.

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.



"Revised"

1 ACCEPTED MANUSCRIPT

1	Effects of preovulatory follicle size on estradiol concentrations, corpus luteum diameter,
2	progesterone concentrations and subsequent pregnancy rate in buffalo cows (Bubalus
3	bubalis)
4	A. K. Pandey ^{*1} , S. P. S. Ghuman ² , G. S. Dhaliwal ³ , M. Honparkhe ² , J. B. Phogat ⁴ and S.
5	Kumar ⁴
6	^{1, 2} Department of Veterinary Gynaecology and Obstetrics, COVS, GADVASU,
7	Ludhiana-141004, Punjab, India
8	³ Department of Veterinary Animal Husbandry and Extension Education, COVS,
9	GADVASU, Ludhiana-141004, Punjab, India
10	⁴ Department of Veterinary Gynaecology and Obstetrics, COVS, LUVAS, Hisar-125004,
11	Haryana, India
12	ABSTRACT
13	The present study was undertaken to investigate the effects of preovulatory follicle
14	(POF) size on estradiol concentrations, luteal profile (CL diameter and progesterone
15	concentration) and subsequent pregnancy rate in Murrah buffalo cows. The buffalo cows
16	(n=49) were synchronized for estrus by two doses of $PGF_2\alpha$ given 11 days apart. The buffalo
17	cows were inseminated during standing estrus and again after 24 hours. Ovaries were scanned
18	at estrus and 24 h intervals until ovulation, thereafter on days 5, 12 and 16 post-ovulation to
19	examine the POF and CL diameter. Size of POF at estrus was divided into three categories; I:
20	10 to ≤ 12 ; II: >12.0 to ≤ 14.0 ; III: >14.0 to 16.0mm. Blood samples were collected for
21	estradiol (on day of estrus) and progesterone concentration (on days 5, 12 and 16). The
22	estradiol concentrations were greater (P < 0.05) in category II than category I with the

^{*} Corresponding author's address: Department of Teaching Veterinary Clinical Complex, COVS, LUVAS, CCSHAU Campus, Hisar-125004, Haryana, (India). Tel.: +91 9467708551; E-mail address: dranandpandey@gmail.com

Download English Version:

https://daneshyari.com/en/article/8427585

Download Persian Version:

https://daneshyari.com/article/8427585

Daneshyari.com