



STUDY OF OVARIAN DYNAMICS IN HOLSTEIN BOVINE FEMALES WITH LOW AND HIGH ANTRAL FOLLICLE COUNT BY COLOR DOPPLER ULTRASOUND

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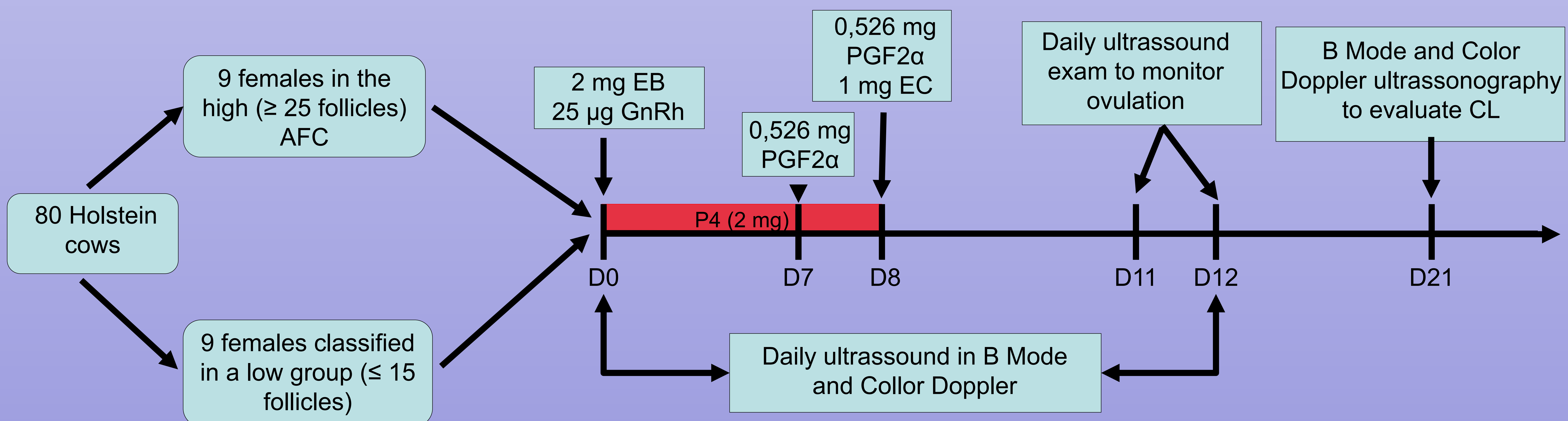
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INTRODUCTION

Recently, color Doppler ultrasound has become popular in cattle reproduction. This technique is relatively new and has as characteristic be a non-invasive study method, allowing a detailed evaluation of ovarian morphofunctional structures and a better understanding of reproductive physiology. Thus, the present study aimed to analyze the ovarian dynamics and characterize the follicular and luteal blood perfusion in Holstein bovine females (*Bos taurus taurus*), grouped according to antral follicle count (AFC).

MATERIAL AND METHODS



RESULTS

Variables	Low AFC		High AFC		P value
	Mean	SE	Mean	SE	
AFC	11,22	0,99	30,22	1,78	0,0001
Ovulatory follicle (OF) blood perfusion (mm²)	17,36	2,33	8,16	3,20	0,005
Corpus luteum (CL) blood perfusion (mm²)	97,16	9,47	68,3	5,24	0,021

Table1. Comparison of blood perfusion in OF and CL of Holstein cows with low and high AFC.

CONCLUSION

Low AFC animals had greater blood perfusion of the ovulatory follicle and *corpus luteum* compared to high AFC Holstein cows.