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## Prevalence and Associated Risk Factors of Genital Abnormalities of Does and Ewes in the West Region of Cameroon

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**Supplementary Materials**
**Table S1.** Prevalence of ovarian diseases based on species, breed, age, body condition score (BCS), and functional status.

Animal characteristics	ovarian diseases	Ovaro-bursal adhesion	Follicular cysts	Luteal cyst	Oophoritis	hematoma
		Pr(%)	Pr(%)	Pr(%)	Pr(%)	Pr(%)
<b>Species</b>	Caprine	42(19.32) <sup>a</sup>	15(2,4) <sup>a</sup>	12(1,56) <sup>a</sup>	15(2,25) <sup>a</sup>	1(0,01) <sup>a</sup>
	Ovine	4(1.84) <sup>a</sup>	1(0,16) <sup>a</sup>	1(1,13) <sup>a</sup>	0(0)	0 (0)
	P value	0.612	0.54	0.597	0.168	0.726
	OR	0.747	0.535	1.511	//	//
<b>Caprine breeds</b>	WADG	36(12.41) <sup>a</sup>	12(04.14) <sup>a</sup>	8(2.76) <sup>a</sup>	11(3.79) <sup>a</sup>	1(0,34) <sup>a</sup>
	KG	4(11.11) <sup>a</sup>	2(5.56) <sup>a</sup>	3(8.3) <sup>a</sup>	2(5.56) <sup>a</sup>	0 (0)
	SG	2(5.88) <sup>a</sup>	1(2.94) <sup>a</sup>	0 (0)	2(5.88) <sup>a</sup>	0 (0)
	P value	0.532	0.861	0.104	0.770	0.887
<b>Ovine breeds</b>	WADS	1(5) <sup>a</sup>	0 (0)	0 (0)	0 (0)	0 (0)
	KS	2(20) <sup>a</sup>	1(10) <sup>a</sup>	1(10) <sup>a</sup>	0 (0)	0 (0)
	PS	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	OS	1(50) <sup>a</sup>	0 (0)	1(50) <sup>b</sup>	0 (0)	0 (0)
	P value	0.070	0.343	0.006	//	//
<b>BCS</b>	Thin(1-2)	29(13,34) <sup>a</sup>	5(0,8) <sup>a</sup>	7(0,91) <sup>a</sup>	11(1,65) <sup>a</sup>	1(0,01) <sup>a</sup>
	Normal (3)	17(7,82) <sup>a</sup>	10(1,6) <sup>a</sup>	6(0,78) <sup>a</sup>	4(0,6) <sup>a</sup>	0 (0)
	Fat (4-5)	0 (0)	1(0,16) <sup>a</sup>	0 (0)	0 (0)	1(0,01) <sup>a</sup>
	P value	0.209	0.173	0.844	0.242	0.637
<b>Age group in months</b>	< 18	0 (0)	1(0,16) <sup>a</sup>	1(0,13) <sup>a</sup>	0 (0)	0 (0)
	18 – 48	36(16,56) <sup>a</sup>	12(1,92) <sup>a</sup>	11(1,43) <sup>a</sup>	13(1,95) <sup>a</sup>	1(0,01) <sup>a</sup>
	>48	10(4,6) <sup>a</sup>	3(0,48) <sup>a</sup>	1(0,13) <sup>a</sup>	2(0,3) <sup>a</sup>	0 (0)
	P value	0.189	0.825	0.597	0.691	0.886
<b>Physiological status</b>	Gravid	2(0,92) <sup>a</sup>	1(0,16) <sup>a</sup>	0 (0) <sup>a</sup>	0 (0) <sup>a</sup>	0 (0) <sup>a</sup>
	Non-gravid	44 (19.36) <sup>b</sup>	15(2,25) <sup>b</sup>	13(1.69) <sup>b</sup>	15(2.25) <sup>b</sup>	1(0,01) <sup>a</sup>
	P value	0.000	0.002	0.001	0.000	0.369
	OR	21.756	12.847	//	//	//

<sup>a, b, c</sup> = Prevalence rates in a column (based on animal characteristics) with different superscripts are significantly different at P <0.05

**Table S2.** Prevalence of salpingeal and uterine pathologies based on species, breed, age, and body condition score (BCS) and functional status.

	Uterine pathologies	Segmental aplasia of uterine horn(s)	Endometritis	Metritis	Mummified foetus	Uterine abscess	Mucometra	Uterine <i>Cysticercus tenuicollis</i> cyst
Animal characteristics		Pr(%)	Pr(%)	Pr(%)	Pr(%)	Pr(%)	Pr(%)	Pr(%)
<b>Species</b>	Caprine	2(0,04) <sup>a</sup>	12(1,56) <sup>a</sup>	6(0,42) <sup>a</sup>	3(0,09) <sup>a</sup>	1(0,01) <sup>a</sup>	2(0,04) <sup>a</sup>	20(5) <sup>a</sup>
	Ovine	0 (0) <sup>a</sup>	1 (0,13) <sup>a</sup>	1(0,07) <sup>a</sup>	0(0)	0(0) <sup>a</sup>	0(0) <sup>a</sup>	5(1,25) <sup>a</sup>
	P-value	0.620	0.707	0.771	0.543	0.726	0.620	0.173
	OR	//	0.674	1.372	0.992	0.997	0.994	2.179
<b>Caprine breeds</b>	WADG	2(0.69) <sup>a</sup>	12(4.14) <sup>a</sup>	5(1.72) <sup>a</sup>	3(1.034) <sup>a</sup>	1(0.34) <sup>a</sup>	2(0.69) <sup>a</sup>	17(5.86) <sup>a</sup>
	KG	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	3(8.33) <sup>a</sup>
	SG	0 (0)	0 (0)	1(2.94) <sup>a</sup>	0 (0)	0 (0)	0 (0)	0 (0)
	P-value	0.786	0.225	0.623	0.696	0.887	0.786	0.277
<b>Ovine breeds</b>	WADS	0 (0)	1(5) <sup>a</sup>	1(5) <sup>a</sup>	0 (0)	0 (0)	0 (0)	2(10) <sup>a</sup>
	KS	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	2(20) <sup>a</sup>
	PS	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1(10) <sup>a</sup>
	OS	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
	P-value	//	0.813	//	//	//	//	0.789
<b>BCS</b>	Thin(1-2)	2(0,04) <sup>a</sup>	8(1,04) <sup>a</sup>	4(0,28) <sup>a</sup>	2(0,09) <sup>a</sup>	1(0,01) <sup>a</sup>	0 (0)	23(5,75) <sup>a</sup>
	Normal (3)	0 (0)	5(0,65) <sup>a</sup>	2(0,14) <sup>a</sup>	1(0,03) <sup>a</sup>	0 (0)	2(0,04) <sup>a</sup>	2(0,5) <sup>a</sup>
	Fat (4-5)	0 (0)	0 (0)	1(0,07) <sup>a</sup>	0 (0)	0 (0)	0 (0)	0 (0)
	P-value	0.404	0.716	0.107	0.869	0.637	0.295	0.000
<b>Age group in months</b>	< 18	0 (0) <sup>a</sup>	0 (0) <sup>a</sup>	0 (0) <sup>a</sup>	1(0,03) <sup>a</sup>	1(0,01) <sup>a</sup>	0(0)	0 (0)
	18 – 48	1(0,02) <sup>a</sup>	10(1,3) <sup>a</sup>	6(0,42) <sup>a</sup>	1(0,03) <sup>a</sup>	0 (0) <sup>b</sup>	2(0,04) <sup>a</sup>	19(4,75) <sup>a</sup>
	>48	1(0,02) <sup>a</sup>	3(0,39) <sup>a</sup>	1(0,07) <sup>a</sup>	1(0,03) <sup>b</sup>	0 (0) <sup>b</sup>	0 (0)	6(1,5) <sup>a</sup>
	P-value	0.401	0.598	0.855	0.018	0.000	0.785	0.314
<b>Physiological status</b>	Non-gravid	13(0,26) <sup>a</sup>	2(0,26) <sup>a</sup>	7(0,49) <sup>a</sup>	2(0,09) <sup>a</sup>	1(0,01) <sup>a</sup>	2(0,04) <sup>a</sup>	2(0,5) <sup>a</sup>
	Gravid	0 (0) <sup>a</sup>	0 (0) <sup>b</sup>	0 (0) <sup>b</sup>	1(0,03) <sup>a</sup>	0 (0) <sup>a</sup>	0 (0) <sup>a</sup>	3(0,75) <sup>b</sup>
	P-value	0.204	0.001	0.017	0.695	0.369	0.204	0.001
	OR	//	//	//	1.613	//	//	6.426

<sup>a, b, c</sup> = Prevalence rates in a column (based on animal characteristics) with different superscripts are significantly different at P <0.05

**Table S3.** Prevalence of salpingeal pathologies based on species, breed, age, body condition score (BCS), and functional status.

Animal characteristics	Salpingeal pathologies	Para-ovarian cysts	Hydro salpinx
		Pr (%)	Pr (%)
<b>Species</b>	Caprine	14 (2,1) <sup>a</sup>	8 (0,72) <sup>a</sup>
	Ovine	1 (0,15) <sup>a</sup>	1 (0,09) <sup>a</sup>
	P value	0.592	0.983
	OR	0.575	1.023
<b>Caprine breeds</b>	WADG	10(12,41) <sup>a</sup>	6(2,07) <sup>a</sup>
	KG	3 (1,38) <sup>a</sup>	0 (0) <sup>a</sup>
	SG	1 (0,69) <sup>a</sup>	2 (0,69) <sup>a</sup>
	P value	0.346	0.231
<b>Ovine breeds</b>	WADS	0 (0)	0 (0)
	KS	1 (10) <sup>a</sup>	0 (0)
	PS	0 (0)	1 (10) <sup>a</sup>
	OS	0 (0)	0 (0)
	P value	0.343	0.343
<b>BCS</b>	Thin (1-2)	9 (1,35) <sup>a</sup>	6 (0,54) <sup>a</sup>
	Normal (3)	6 (0,9) <sup>a</sup>	2 (0,18) <sup>a</sup>
	Fat (4-5)	0 (0)	1 (0,09) <sup>a</sup>
	P value	0.727	0.124
<b>Age group in months</b>	< 18	0 (0)	0 (0)
	18 – 48	15 (2,25) <sup>a</sup>	9 (0,81) <sup>a</sup>
	>48	0 (0)	0 (0)
	P value	0.151	0.328
<b>Physiological status</b>	Non-gravid	13 (1,95) <sup>a</sup>	8 (0,72) <sup>a</sup>
	Gravid	2 (0,3) <sup>b</sup>	1 (0,09) <sup>b</sup>
	P value	0.013	0.041
	OR	5.483	6.630

<sup>a, b, c</sup> = Prevalence in a column (based on animal characteristics) with different superscripts are significantly different at P < 0.05, Pr = prevalence.