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The importance of litter size components in three selected maternal rabbit lines.

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LITTER SIZE	AIM	
		The aim of this study was to

WHY?



Synthetic lines of polytocous species

PRENATAL MORTALITY

In selected lines for efficient reproduction

compare the litter size components in 3 synthetic lines named A, V and LP all of them selected by litter size at weaning.

Line A

was originated in 1980 from New Zealand White rabbits reared by farmers (47 generations)

Line V

was stablished from 4 specialized maternal

PARAMETERS MEASURED





lines in 1984 (43 generations)

Line LP



was founded by selecting females from commercial farms that showed an extremely long productive life associated with prolificacy (12 generations)

Ovulation rate, implantation, foetal and perinatal losses rates were analyzed by a GLM model with line and lactation state as fixed factors



Ovulation rate





RESULTS





Figure 1. Total number of corpora lutea in three maternal rabbit lines

207 Iaparoscopies between 3rd-5th parity

Implantation rate

CONCLUSIONS

Results showed that synthetic lines differ in ovulation rate (15.4 ± 0.50 , 14.4 ± 0.44 and 14.0 ± 0.47 from line V, LP and A, respectively). Regardless of the criteria for the foundation of the lines, the percentage of implantation ($12.8\pm2.50\%$), foetal ($14.0\pm2.33\%$) and perinatal losses ($7.2\pm2.10\%$) and litter size at birth (11.4 ± 0.41) were no different. Study supported by AGL2014-53405-C2-1-P