

EFFECT OF LYSINE LEVEL AT LATE GESTATION ON BODY CONDITION AND REPRODUCTIVE PERFORMANCES IN SOWS

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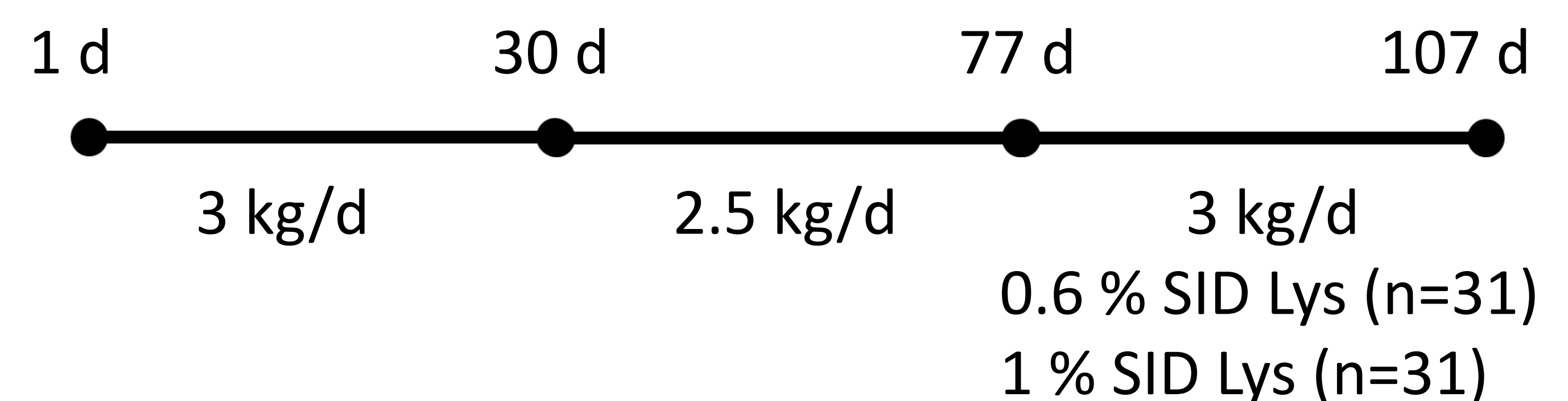
INTRODUCTION AND OBJECTIVES

The weight at farrowing of piglets of hyperprolific sows presents high variability. The increased of the level of lysine during the last month of gestation could optimize the weight of piglets and the homogeneity of the litter. Therefore, the aim of this study was to evaluate the effect of the dietary standardized ileal digestible lysine (SID Lys) level provided during the last month in the gestation facilities on backfat and loin muscle depths (BFD and LMD, respectively) and on reproductive performances.

MATERIAL AND METHODS

62 hyperprolific DanBred sows.

Feeding program during pregnancy:



RESULTS

Table 1. Effect of the SID Lysine level during the last month of pregnancy on sow parameters.

	SID Lysine		SEM (n=31)	P-value
	0.6%	1%		
Backfat depth, mm				
At previous weaning	12.9	12.8	0.511	NS
Δ from 77d of gestation to farrowing	0.245	1.31	0.176	<0.0001
↓ during lactation	4.61	5.85	0.303	0.005
↓ from previous weaning to weaning	2.19	1.85	0.378	NS
Loin muscle depth, mm				
At previous weaning	48.7	48.7	0.794	NS
Δ from 77d of gestation to farrowing	-0.590	-0.481	0.095	NS
↓ during lactation	0.952	0.158	0.182	0.003
↓ from previous weaning to weaning	2.83	1.25	0.287	0.0002
Total lactation feed intake, kg	124.4	122.1	2.047	NS

Table 2. Effect of the SID Lysine level during the last month of pregnancy on piglets parameters.

	SID Lysine		SEM (n=31)	P-value
	0.6%	1%		
At farrowing				
Total number of piglets born	18.0	19.1	0.543	NS
Total number of live-born	15.7	17.1	0.475	0.043
Piglets mortality, %	11.6	10.2	1.802	NS
Litter weight, kg	23.1	25.9	0.791	0.017
Litter weight variability (CV)	22.6	23.0	0.984	NS
Piglet weight, kg	1.31	1.35	0.037	NS
After standardization of litters				
Litter weight, kg	19.8	20.2	0.453	NS
Piglet weight, kg	1.52	1.55	0.035	NS
At weaning				
Total number of weaning piglets	12.4	12.6	0.165	NS
Litter weight, kg	67.1	73.0	1.803	0.024
Piglet weight kg	5.40	5.79	0.126	0.034
Piglets mortality during lactation, %	4.47	2.98	1.272	NS
At next parity				
Total number of piglets born	16.4	18.6	0.500	0.005
Total number of live-born	15.3	16.9	0.432	0.018
Piglets mortality, %	6.31	8.67	1.279	NS



CONCLUSIONS

The increase in the SID Lys level from 0.6 to 1% during the last month of gestation improved body condition of the sows and their performance results even at next cycle.

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