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Abstractets titel:

Feeding level and dietary composition the last 3-6 days prior to farrowing reduced still born piglets in hyper-prolific sows

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Recent small-scale studies from Aarhus University indicated that providing a feeding level of 3.7-4.1 kg/day and selecting fibre sources like i.e., sugar beet pulp prior to farrowing improved farrowing dynamics. Thus, a follow up large-scale trial was designed in two commercial herds to substantiate the above findings with the aim of investigating the effect of different feeding levels and the use of a starch and fibre rich transition feed supplement on stillbirth rate and piglet survival day 0-5 post farrowing. A total of 902 parity 3 to parity 7 sows were stratified for parity and assigned to one of three feed levels (Group 1: 2.8 kg/d lactation diet; Group 2: 3.7 kg/d lactation diet; and Group 3: 2.8 and 0.9 kg/d lactation diet and transition feed supplement, respectively). The lactation feed (9.3 MJ NE/kg; 128.4 g SID CP/kg and 414 g starch/kg) mainly consisted of wheat (37.7%), barley (37.5%), soybean meal (14.1%), sunflower meal (3.0%), dried sugar beet pulp (2.5%), and added fat (1. %), whereas the transition feed supplement (9.7 MJ NE/kg; 71.7 g SID CP/kg and 482 gstarch/kg) main contents were wheat (76.8%), dried sugar beet pulp (6.6%), cake flour (5.0%), and oat hulls (4.5%). Sows in Group 1, 2, and 3 were supplemented with 499, 649, and 659 g/d of fibre (insoluble + soluble), respectively. The daily supply of standardized ileal digestible protein was 361, 476, and 421 g/d in Group 1, 2, and 3, respectively. Sows were fed the dietary treatments during the last 3-6 days of gestation in three similar-sized meals per day at 0500, 1130, and 2300 h. The effect of dietary treatment on several responses, including proportion of stillborn piglets of total born, piglet mortality until day 5 postpartum, sows treated at least once against MMA, and sows that received at least one farrowing assistance were performed, was analyzed using a mixed logistic model. The model included treatment as fixed effect and sow parity, week batch and herd as random effects. Pairwise comparisons were made between Group 1 and 2, and