from lambs aged up to four hours and (2) Depressed heat production due to starvation in older lambs. All lambs are susceptible to hypothermia but high risk lambs include twins and triplets, lambs which suffer hypoxia during birth, lambs from ewes in poor condition and lambs from very young or very old ewes. Prevention of hypothermia depends on good nutrition during pregnancy and a high standard of management at lambing time. Effective treatment of hypothermia depends on early detection of the condition, administration of glucose to lambs aged five hours of more, rewarming in warm air and careful aftercare.

The effect of ACTH on parturition as defence mechanism stimulator in sows

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Injection of a long acting ACTH preparation on the 140th day of pregnancy reduces parturition time by 21 and 23 p. 100 in *Danish Landrace* and *Piétrain* sows respectively. The parturition time of the *Piétrain* sows was about 20 p. 100 longer than in the *Danish Landrace*.

The difference in parturition time between the two breeds, and the shortening effect of ACTH is discussed from general stress susceptibility points of view: the *Piétrain* having a higher incidence of PSE, PSS and Halothane positivity than *Danish Landrace*, caused by an impaired genetic ability to mobilize adaptive endocrine systems, especially the pituitary-adrenal cortical axis at time of parturition.

ACTH stimulates the adaptive system by way of an increased release of adrenal cortical steroids. One of the effects of an increase in circulating adrenal cortical hormones, is a stimulation of uterine contractions.

The mode of action of adrenal cortical hormones in the defence mechanism of the organism against external as well as internal stress situations, in the present case parturition, is discussed.

Effect of T₂ Fusarium toxin on adrenocortical function and immune response of growing pigs

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Six Hungarian Large White \times Duroc F_1 pigs fed T_2 toxin at 5 mg/kg dietary level for 25 days after weaning at 28 days of age were examined for weight gain, adrenocortical activity and main cell-mediated and humoral immune reactions by comparison to 6 control pigs of the same age and breed.

Toxin treatment accounted for 49-77 p. 100 feed refusal, and consequent marked depression of weight gain. The average daily toxin ingestion was assessed as 1.27 mg.

 T_2 also depressed the total leucocyte count, but did not give rise to leucocytopenia during the 25 days of treatment.

The adrenocortical activity of T₂-treated pigs increased significantly over the control.