ESTRUS CONTROL
IN GILTS WITH NORETHANDROLONE INJECTIONS
AND AN ANALOGUE OF PROSTAGLANDINS (ICI 80996)

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The norethandrolone (17α-ethyl-nortestosterone) controls efficiently the sexual cycle in gilts. A treatment of nine or eighteen injections (IM) (30 mg norethandrolone per injection each day) was begun at the different days of the estrous cycle (D1 to D19). A coelioscopic examination of the ovaries at nine or eighteen days after the first injection informs about the presence of corpus luteum or cystic follicles. Whatever the length of the treatment, no cystic follicle was observed during or after the progestagen administration.

An effective oestrus synchronization exists after a long term treatment (20/21 gilts in oestrus 5 days after the last injection). But with a short term period of injections, begun between D1-D5, oestrus are grouped between the 6th-8th days post-treatment in only 1/3 of gilts (7/21). The original corpus luteum remains functional at the end of progestagen treatment (D9 to D13). Two injections of 500 µg of ICI 80996 have a luteolytic effect on this D19 to D14 corpus luteum (GUTHRIE & POLGE, 1973). A good synchronization was observed (14/15 gilts in oestrus between D4-D8 after the last progestagen injection). With a short term treatment begun between D4 to D10 of the oestrus cycle, oestrus synchronization is effective with or without prostaglandin injections (48/61 in oestrus during the same reference period). Fertility expressed in controlled presence of embryos at the 30th of pregnancy related to the treated animals was respectively: 9 days norethandrolone + ICI 80996 : 78 p. 100 (18/23) ; 9 days norethandrolone alone : 63.6 p. 100 (16/26) ; for the second treatment, the period D1-D6 of the oestrus cycle resulting in unsynchronised oestrus is not considered. With prostaglandin, the result is obtained whatever the first day of the treatment.

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RÉSUMÉ

CONTROL DE L'ESTRUS CHEZ LA TRUIE NULLIPARE PAR INJECTIONS DE NORETHANDROLONE ET D'UN ANALOGUE DES PROSTAGLANDINES (ICI 83996)

Chez la Truie, l'injection journalière de 30 mg de norethandrolone pendant 18 jours permet de grouper les oestrus 5 jours après l'arrêt du traitement.

Un traitement de 9 jours permet le groupage des oestrus, à condition que les injections commencent après le 5e jour du cycle. On obtient la synchronisation des chaleurs et une fertilité de 78 p. 100 en associant 9 jours de norethandrolone et deux injections de 500 µg d'un analogue des prostaglandines.

REFERENCE