



Better control of post lactation oestrus by means of a progestagen (RU 2267)

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other animals were inseminated after return to heat 20 days post treatment (control group). Parallel to that, the effect of the number of spermatozoa per insemination was studied.

Three gilts out of four systematically inseminated on days 6 and 7 after the treatment were in œstrus according to the observations of the farmer. In the control group 6 p. 100 of the animals were not inseminated because they did not return to heat. The variability of the results was essentially due to differences between herds in the number of animals with delayed puberty. Like all progestagens, « RU 2267 » had only an effect on puberal gilts. On the other hand, grouping of œstruses was better when the gilts were fed individually.

This technique allows to control the cycles without detection of œstrus and to use A.I. on days fixed in advance. As a matter of fact, when the progestagen was distributed individually, the farrowing rate after systematic insemination with 12.10^9 spermatozoa was 68.5 p. 100 (9.8 piglets born alive on an average), a result similar to that of the controls (58 p. 100; 10.3 piglets born alive). The fertility after induction of œstrus (percentages calculated from animals in heat at the moment of insemination) was nearly 70 p. 100. However, better results were obtained after use of 12.10^9 spermatozoa when the progestagen was given individually (farrowing rate: 87.2 p. 100; 9.8 piglets born alive on an average). A similar effect was not observed in the corresponding control group (farrowing rate: 67.5 p. 100; 10.3 piglets born alive on an average). The progestagens seem to have a depressive effect on survival and migration of spermatozoa in the female genital tract, as often observed in the other species.

Better control of post lactation œstrus by means of a progestagen (RU 2267)

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Suckling sows were given a component possessing a progestative activity RU 2267 for 7 days (3 days before drying off, the very same day, three days after). At the end of the treatment, sows were systematically inseminated on days 6 or 7 (in œstrus or not). The control females of the same age as the former ones were inseminated after the onset of œstrus (double artificial insemination at 24 hours interval). The effect of the number of spermatozoa per insemination was studied.

In the suckling sow, the progestagen RU 2267 at the dose of 30 mg/sow/day had a depressive effect on the return to œstrus: 11.5 p. 100 females were not in heat at the moment of systematic inseminations, versus 1 p. 100 in the controls. This might be due to the progestagen concentration. Moreover, the fertility was very low: 53 p. 100 farrowed 9.2 piglets on an average (a total of 113 sows). Higher fertility and prolificacy were noticed in the controls: 70.6 p. 100 and 10.6 piglets (a difference of 1.5 piglets was observed between control and treated sows). On the contrary, when analysing these results relative to the number of spermatozoa employed for AI, a substantial improvement of the farrowing rate was noticed with 6.10^9 spermatozoa/AI instead of 3.10^9 and without any overfeeding after the end of the progestative treatment (76.2 versus 48.8 p. 100). Prolificacy remained always lower than that of the controls.