

CASTRATION OF PIGLETS BY INTRA TESTICULAR INJECTION OF FORMALDEHYDE

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There has been abundant research published about the effects of sub-lethal doses of Cadmium chloride in males; rats, rabbits, goats Rhesus monkey and boars, with the purpose to find the sterilization of this species. (Kar & Das; Cameron & Foster; Chiquoine; Guerritz; Parizek and others authors.

The experiment was carried out at the Posto de Suinocultura, de Itapeva, of the Instituto de Zootecnia, São Paulo, Brasil.

The purpose of the experiment were to find a new method to castrate piglets free of the side effects associated with the usual methods.

It was studied the effects of an intra-testicular injection, using a formula containing Formaldehyde in equal parts with an oil solution with additives.

Two assays were conducted. The first one was designed to observe the alterations of the espermiogenic tissue. The finality of the second one was to verify the performance test of the animals.

Twenty four piglets of the wessex Saddleback breed were utilized from 7 to 126 days of age.

Experimental procedure was in randomized blocks with three treatments and eight replications. The following treatments were considered: castrated with Formaldehyde, castrated surgically and non castrated.

Conclusions:

After 126 days the following general conclusions were obtained:

- 1 - There was a reduction in the weight of the testicles of 10%, 30% and 50% when injected respectively with 0.50 mg, 0.100mg and 0.200 mg of the formula per Kilo of live weight.
- 2 - The dose of 0.50mg in animals 7 days old, presented six months later in histologic preparations total aspermiogenesis
- 3 - Piglets 21 days old dosed with 0.200mg per kilo of live weight eliminated their dead testicles 15 days after the injection, the wound in the scrotum healing immediately.
- 4 - Collateral undesirable effects were observed with doses above 0.200mg/kg up to the age of 56 days.
- 5 - In the second assay the statistics shows no significant differences between the various parameters measured such as: weight gain, feed intake, feed/gain and carcass characteristics.
- 6 - Castrated animals with Intra-testicular injection demonstrated similar performance to non castrated.

Selected references:

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