Non-Surgical Sterilization Methods in Male Animals: A Review

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Introduction

Background

Non-surgical sterilization technique in animals is an ancient practice and dates back to 7000 BC. Surgical castration in animals has been applied for centuries to control the animal population, advance genetic selection, improve calmness of aggressive animals and mainly to ensure and selectively provide high-quality meat production for human consumption. An ideal method of castration should cause permanent block to spermatogenesis and inhibit androgenetic enzymes with low-cost of treatment and doesn't affect the welfare of the animal. Over the past years, Calcium chloride, lactic acid, sodium chloride, chlorhexidine, formalin, zinc tannate, zinc gluconate, glycerol, glucose, ethanol and silver nitrate are commonly used in chemical castration. Non-surgical sterilization has found application in male dogs, cats, monkeys, goats, bulls, hamsters and rabbits.

Objective/ Aim

To review on importance of non-surgical sterilization techniques and its application in veterinary practices in different species of male animals.

Conclusion

In general, non-surgical methods of sterilizations have greater safety over operative method since each chemical substance has minimal side effects. Besides, it can be preferred for its less postoperative complication, cheap, small number of staff requirements, ease of application and especially positive effect on meat yield in bulls and pigs. In conclusion, non-surgical sterilizations approach and techniques are significant in terms of both animal welfare and cost effectiveness especially in male animals.

Biography

Dr. Haben Fesseha, is an Assistant professor of Veterinary Surgery and Diagnostic Imaging in Wolaita Sodo university, Ethiopia. He has got MSc in Veterinary Surgery and Diagnostic Imaging from Mekelle University and a graduate of Bachelor of Veterinary Medicine (BVM) from University of Addis Ababa University, Bishoftu, Ethiopia. He is an expert in Veterinary surgery and main area of interests are Chemical (Non-surgical) castration, reconstructive surgery (plastic and cosmetic surgery) and Chemotherapy of cancer.

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