Short Communication

The best methods of control sarcoptic mange infested cattle, sheep and rabbit farms

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Abstract

This paper studied to identify the best method to control scabies for animals, cattle, sheep and rabbits. Ivermectin Injection method is considered under the skin of the animal accompanied by anti-surface of the animal body, such as the use of Tincture iodine or sulfur ointment or spray a pesticide recommended is the best method to kill scabies in animals where control is internal and external at the same time.

Keywords: anti-surface; Ivermectin Injection; scabies; sulfur ointment ; Tincture iodine

INTRODUCTION

Mange is a highly contagious skin disease caused by a species of mites. Mites affect both domestic animals and humans, but also wildlife of zoonotic importance (Bornstein et al., 2001 and Kahn et al., 2005). The mite species in wild and domestic animals is Sarcoptes scabiei. This parasite is a ubiquitous ectoparasite that infects more than 100 species of mammals worldwide. In humans it is known to cause considerable morbidity in a number of different counties (Walton et al., 2004) and epidemics can be caused by contagion from a single case of scabies in crowded living conditions. Sarcoptic mange may lead to considerable economic losses in domestic animals with repercussions for the animal trade (Pence and Ueckermann, 2002). It also has devastating consequences for wild animals, above all in isolated populations a situation that is worsening due to the limitations of available chemotherapy (Soulsbury et al., 2007).

Disease control in domestic animals may be able to interrupt mange transmission to wild animals and vice versa (Serrano et al., 2011). Recently, attempts have been made to understand mange molecular epidemiology using genetic tools to differentiate between isolates from different hosts and geographical regions (Sanderson et al., 2007).

The epidemiology of mange is still not well understood and seems to differ between animal species and areas of the world (Alasaad et al., 2011). The aim of the study to know the best methods to resist mange in cattle, sheep and rabbits farms during previous studies.

The best methods of control mange mite infested cattle farms

In general treated sheep for controlling scabies took less time to recovery than in case of cattle scabies. The best results in controlling scabies were obtained when used Ivermectin injection and used sulfur or tested pesticide spray on body surface of cattle mange. Ivermectin injection
is the best way to control animals mange and using spraying on animals. Also Injection can be used only twice a month is better than a one-time usage. The results were obtained by (Desoky, 2011 and Witmer et al., 1995).

All husbandry animals showed a slight improvement in the clinical picture of mange disease by using Ivermectin injection, when used at two time in a month (20-30 dys to Recovery of the skin) may be due to avermectin paralyses and ultimately kills parasitic nematodes, arachnids and insects by its effect on the nervous system of these parasites. avermectin injection at the recommended dose rate controls re-infection with with sarcoptic mange acquired up to 14 days (life cycle) after treatment. At therapeutic doses, avermectin has no adverse effect on cattle and sheep since it does not readily penetrate their central nervous system. avermectin belongs to the avermectin class of anthelmintic endectocides. This finding is in agreement with (Alasaad et al., 2011 and Desoky, 2011).

**Recommended dose with ivermectin in cattle**

Ivermectin used a rate 1 ml per 50 kg body weight by subcutaneous injection, each ml contains 10 mg of avermectin sufficient to treat 50 kg of body weight. Also Injection can be used only twice a month is better than a one-time usage.

**The best methods of control mange mite infested sheep farms**

The first method (1) for controlling sheep mange took less time to skin recovery were obtained when used Remove old skin + Mange cides + Noromectin 1.0% injection (two time a month) on body surface of sheep mange may be due to Mange cides contains sulfur and oxygen prevents the mite also, remove the skin until it reaches the material to mite and Normectin injection is indicated for the effective treatment and control of the following harmful species of gastro-intestinal roundworms, lungworms, eye worms, warbles, mites and lice.

Second method (2) Normectin injection is the best way to control animals, can be used twice a month may be due to Normectin injection is highly effective against internal and external parasites at a dose volume of 1 ml per 50 kg bodyweight. It can be administered quickly and easily or Mange cides + Noromectin 1.0% injection is better methods.

Normectin injection for sheep can be administered to sheep at any stage of pregnancy or lactation provided that the milk is not intended for human consumption. Normectin injection for sheep will not affect the fertility of breeding ewes and can be given to all ages of animals including young lambs. The same result was obtained by (Abo Elmaged, 1998; Betty and Richard, 2008; Cozma et al., 2010; Hagawane et al., 2010; Desoky, 2011; Desoky and Hamdon, 2014).

**Recommended dose with ivermectin in sheep**

The rate 0.5 ml per 25 kg body weight by subcutaneous injection (based on a recommended dosage level of 200 mcg ivermectin per kilogram body weight).

**The best methods of control mange mite infested rabbit farms**

The best results in controlling scabies on rabbit were obtained when used Normectin injection, paraffin oil and Mange cide (one time in a month) on body surface of rabbits mange compared with other methods. Normectin injection and Paraffin oil (one time) on ear mange may be due to paraffin oil and Mange cide paraffin oil oxygen prevents the mite also Normectin injection is highly effective against internal and external parasites at a dose volume of 1 ml per 50 kg bodyweight, it can be administered quickly and easily. Normectin injection control sarcoptic and psoroptic mange mites as infections start to build up. Normectin injection may also be used as an aid in the control of biting lice and chorioptic mange mites, but complete elimination may note occur. Treat all animals in contact with each other to prevent cross infection. These results were recorded also by (Kaya et al., 2010; Millán, 2010; Desoky and El-Sheikh, 2014).

**Recommended dose with Normectin in rabbit**

Noromectin1.0% 1/2 ml injection / individual by subcutaneous injection (based on a recommended dosage level of 200 mcg ivermectin per kilogram body weight).

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1- Paraffin oil (surface used)
2- Mange cide (surface used)
Composition (Benzyle benzoate, Salicylic acid, Sulphur, Phenol, Tar)
3- Skin recovering = the growth of new skin
4- Remove old skin = remove the old skin until it reaches the material to mite
5- Normectin 1.0% w/v

- Presentation: A clear, colourless, slightly viscous, sterile, non-aqueous solution containing 1.0% w/v ivermectin.
- Manufactured by: Norbrook Laboratories Limited, Newry, N Ireland, BT35 6JP
- Safety: Studies have demonstrated a wide safety margin.
and the recommended use level had no adverse effect on breeding performance.
- Chemical group: macrocyclic lactone (Avermectins)
- Used method: Injection

REFERENCES