

## Efficacy of homeopathic complex in treatment of tape-worm infection in goats

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### ABSTRACT

Bacillinum (Bacil.) is one of the commonly known homeopathic drugs with anthelmintic infection. In homeopathy such drug is properly used to remove the worms. The present study is a successful experiment to enhance the efficacy of this drug with use of calcarea carbonica 30 (calc.c.30). during monsoon of the year 2009, ten goats affected from tape worm (*Moniezia expansa*) were treated with Bacillinum and calcarea carbonica. For observing the efficacy of the drug, selected goats were randomly divided into two groups A and B with 5 goats in each. Bacil. 30 @ 20 pills once a day, calc. c.30, @ 20 pills 6h-intercurrently were given orally to each of the goat group A. while the goats group B were kept as untreated control. Efficacy was observed by calculating on zero to 14 days post treatment by faecal egg count reduction test. It was found that bacillinum could kill the 100% tape- worm and calcarea carbonica reduced the abdominal pain and swellings.

**Key words :** Bacillinum 30, Calcarea carbonica 30, Tape- worms, Goats

Goats is very important livestock species in India because of its significant contribution to the national economy. It is the only livestock species from which three crops can be harvested concurrently. These are milk, meat and fibre. However, goats in India face major threat in the form of diseases, which affect the production by increased animal mortality, loss of milk and meat, loss due to reproductive failures and general debility. Among the infections tape worm (*Moniezia expansa*) infection of ruminants has been encountered in every part of the world (Nama, 1990), inhabits the small and large intestine and exerts its greater economic effect in tropical and temperate countries. It causes intestinal abstraction, perforation, preneal abscess, hepatic abscess, cholecystitis and appendicitis. The main pathogenic effect of the tape worm is characterized by progressive weakness, wool falling and anaemic condition. This form is most common where mortality is low but morbidity may reach high and animals become very weak and emaciated. However, heavy worm load may cause death. Keeping these in view, the present investigation was undertaken to control the tape worm infection in goats; through homeopathic drug, which is the cheapest way for poor villagers free from any side effect.

### MATERIALS AND METHODS

Ten goats aged between 1 to 2 years, naturally infected with tape worm (*Moniezia expansa*) infection were selected and randomly divided into two groups, viz., A and B with 5 goats in each. The goats of group A were treated with Bacil.30 in the form of pills @ 20 pills once a day, calc. c.30 @ 20 pills 6h (6 hours), intercurrently, through orally for 14 days. While the goats of group B were kept as untreated control. Faecal samples were collected from all the rectum of the goats of group A and B for screening of parasite infection using Mc Master egg counting technique (Kelly, 1974). The eggs were morphologically identified as per the key of Soulsby (1982). On zero and 14 days post treatment, the faecal samples were collected and examined with the same methods stated above. Efficacy of drug was calculated using the formula described by Wirtherle *et al.* (2004).

$$\text{FEER} (\%) = (\text{FEC bt} - \text{FEC at}) \times 100 / \text{FEC bt}$$

where, FEER(%) denotes per cent faecal egg count reduction, FEC bt and FEC at, stand for egg count before and after treatment, respectively.

### RESULTS AND DISCUSSION

The positive goats with tape worms were showing clinical symptoms such as weakness, anaemia, rough body coat, wool falling, reduce milk and diarrhoea etc. on day zero, mean faecal eggs counts were almost uniform in all

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