

Efficacy of Ivermectin against *Ascaris suum* in Swine

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Abstract

In present study ivermectin was tried in 20 pigs of Yorkshire breed infected with *Ascaris Suum* from organized farms of Pig Prawns N Pet Agro Pvt. Ltd., Tumsar dist- Bhandara. These pigs were treated with injectable solutions containing 300 ug of ivermectin /kg b.w.(s.c.) .The improvement was observed within 7 days of treatment and complete recovery was noticed after three consecutive treatments .

Keywords: Ivermectin, *Ascaris Suum*, swine.

Introduction

Ascaris suum is cosmopolitantly distributed, non bursate nematode inhabiting small intestine of pig. *Ascaris suum* eggs are much more resistant to the environmental factors than free living infective larvae of *Oesophageoes dentatum*, *Hyostrogylus rubidus* (Roepstorff, 1997) these worms cause damage to the host in terms of nutritional deficiency, morbidity and economic loss .

Ascaris suum infection is a serious problem in pigs to overcome this problem treatment with doramectin and ivermectin (Cichtensteiger et. al. 1999), doramectin (Stewart et. al., 1996 ,Logan et. al., 1995) against *Ascaris suum* infection , are followed. In present study ivermectin was tried for ascaris suum infection in pigs.

Materials and methods

Faecal sample of 52 pigs were collected from Yorkshire breed infected with internal parasites from organized farms of Pig Prawns N Pet Agro Pvt. Ltd., Tumsar dist-Bhandara. These samples were examined by sedimentation techniques (Soulsby, 1982).

Infected pigs were treated with three consecutive treatments with injectable solutions containing 300 ug of ivermectin /kg b.w. (s.c.) during 0, 7 and 14 days of interval.

Faecal sample were examined after 7 and 14 days of treatment.

Results and discussion

Out of 52 faecal samples examined 20 were positive. Following treatment with ivermectin improvement was observed within 7 days, anorexia subsided within 5 days, after 14 days of treatment, all faecal samples were negative. The present study indicates ivermectin can be used for successful treatment of *Ascariasis* in pigs.

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References

1. Lichtensteiger, J. A., Dipietro, A.J.and PAUL, E.J. (1999): *Veterinary Parasitology*. 82 (3):235-241.
2. Logan,N.B., Weatherleg ,A.J. and Jones R.M. (1996): *Veterinary Parasitology*. 66 (1-2):87-94.
3. Roepstorff, A. and Murrel, K.D. (1997): *Ind. J. parasitol.* 27 (5) :563-72.
4. Soulsby, E.J.L. (1982): *Helminthes Arthropods and Protozoa of Domesticated animals the 9 th edn.* Elbs Bailliere Tindal, London p. 788.
5. Stewart, T.B., Fox, M.C., and Wiles, S.E. (1996): *Veterinary Parasitology*. 66 (1-2):101-108.
