

Hydatid Disease

A cystic disease of lungs and liver spread to human by infested dog

Lt. Col. Dr. Gambhir Lal Rajbhandari
Consultant Cardio Thoracic Surgeon

INTRODUCTION

Hydatid disease or echinococcosis was known since ancient times and is still endemic in numerous countries including Nepal. (1,2)

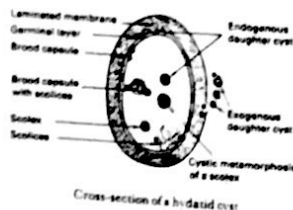
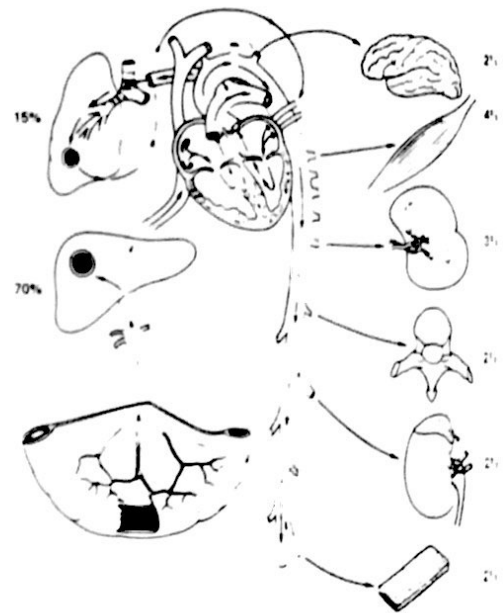
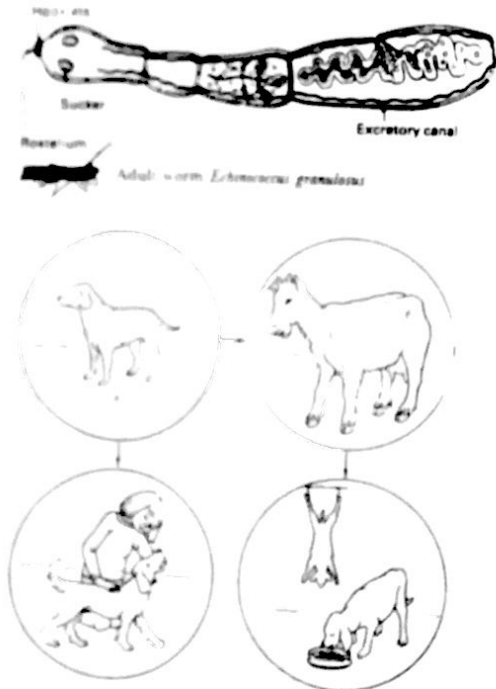
It is caused by the Larva of the 4mm long canine Tape worm, taenia ecchinococcus. Taenia ecchinococcus requires two hostes most frequently dog and Sheep (goat) for both its existence and the survival of its species.

The Parasite's Life cycle

The fertilized ova are passed out in the faeces of a dog with taeniasis contaminating the pasture (grass) The Sheep ingests the contaminated food (grass), the ova penetrate through the intestinal wall into the blood Stream, and most frequently infest, Liver and Lungs, with only 10-15% being found in other organs.

An Embryo lodged in the tissue develops into the primary hydatid cyst, within which Scolices or the heads of Tap Worms are formed. Cysts are usually solitary, but in 20-30% of cases they may be multiple in one or several organs.

If a dog swallows infested organs of a sheep (goat) just slaughtered & containing live scolices, it will develop taeniasis, The parasist'e life cycle is completed. (3)



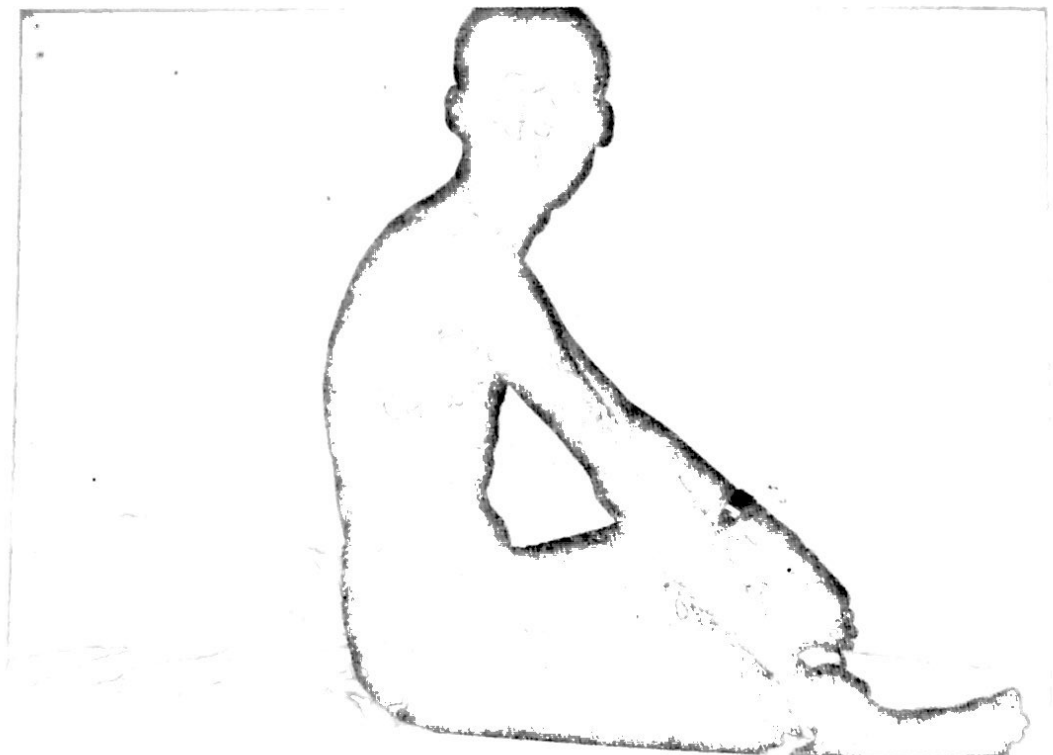


Reference

1. Schantz PM: Epidemiology of cystic Echinococcosis. Global distribution and Patterns of Transmissions.
2. Proceedings of National Seminar on Echinococcosis, Kathmandu 1996.
3. Joshi AB, Joshi DD, Schantz PM et al Epidemiological Assessment of Echinococcosis in Nepal. Proceedings of National Seminar on Echinococcosis Kathmandu 1996.
4. Ginzberg E. Pulmonary Hydatid cysts Rob and Smith's operative surgery. Thoracic surgery, Jackson JW, Cooper DKC Butterworth, London 1986, 194-203.
5. Harton, Chemotherapy of Echinococcus infection in man with Albendazole Pharmacopia, Martin Dale 1993.
6. Rajbhandari G.L. Hydatid Cyst: Complete resolution following Albendazole J. Nep. Med. Assoc. 1995; 33 : 131-132. Medicine. 1995, 24: 586-595.
7. Morris D.L. the management of Hydatid Disease. British Journal of Hospital Medicine, 1980, 24: 586-595.
8. Rajbhandari G.L. Surgical experience with Hydatid Cyst of Lungs & Liver. J. Society of Surgeons of Nepal, 1998, 1, 1, 13-15.

Acknowledgement.

I wish to thank L/Nk Kamal Bahadur Raut for assisting me to print this article.



A picture of after Surgery of Hydated of Lungs.