CASE REPORT

UNUSUAL LOCATION OF CYSTICERCOSIS LESION PRESENTATION

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INTRODUCTION:

Cysticercosis in humans is exclusively caused by larvae of *T. solium* which have predilection for skeletal muscle, eyes, and central nervous system. In literature head and neck manifestations of Cysticercosis is reported as soft tissue swellings at sub mental area, cheek as well as tongue¹⁻⁴. Cysticercosis presenting as a nodule or mass on neck is a very rare occurrence⁵. The diagnosis was usually made on Histo pathologic examination. The ensuing clinical disorder is named after the organism at this larval stage, cysticercosis cellulose Larva of pork tapeworm *Taenia solium*.

KEY WORDS: Cysticercosis, *T. solium*

CASE HISTORY:

A 21 years male presented with a painless solitary nodular swelling on right side of the upper neck of 2 years duration. The nodule was gradually increasing in size, associated with anxiety, easy fatigability, palpitations, decreased appetite and weight loss. Local examination revealed 2 x 2 cm round, smooth swelling present on right side of neck at the level of Thyroid cartilage and anterior to the upper 1/3rd of sternocleidomastoid muscle and on palpation the swelling is cystic, non tender, firm in consistency, not moving with deglutition and on protrusion of tongue.

Skin over the swelling was non pinchable. No local rise in temperature. Swelling was mobile both horizontally and vertically, not attached to the underlying muscle. General and systematic examination within normal limits.

Clinical Diagnosis made was

- 1) Benign cystic swelling of right neck.

CASE REPORT

- 2) Sebaceous cyst
- 3) Lipoma
- 4) TB lymph node
- 5) Aberrant thyroid
- 6) Salivary gland

FNAC: S/o '?' necrotic lymph node, complex cyst or parasitic cyst.

U/S: S/o '?' necrotic lymph node

Excision of the cyst was done and sent for HPE

The Histopathologic examination revealed 'Cysticercosis Cellulose' characterized by a scolex and epithelium lined by tortuous body and continuous with outer cystic layer. Cyst enclosed by a fibrous capsule infiltrated with lymphocytes, plasma cells and eosinophils. Figure.1

The post operative period was uneventful.

DISCUSSION:

Taenia solium passes its life cycle in two hosts. The definitive host is human who harbors the adult worm and intermediate host in pig which harbors the larval stage. The adult worm lives in the small intestine of man. Usually one adult worm is present which lives for years. It is about 3 meters long with proglotids, the gravid segments with about 50000 eggs in each gravid segment. The worm sheds gravid segments laden with eggs in the stools which infect pigs on reaching the alimentary canal of the intermediate host penetrate the gut wall and reach systemic circulation and are lodged in different organs and muscles. They develop in to larvae referred as cysticercosis Human being are infected through eating under cooked contaminated pork or infected vegetables. Adult worms shed gravid segment laden with eggs in the stool, which re infect pigs. Thus completing the cycle. Autoinfection of man may occur by contaminated fingers or by reversal of peristaltic movements of intestine, the gravid segments are thrown back to the stomach and larvae disseminate throughout the body via Arterio Venous Channels and lymphatics encysting in subcutaneous tissue, striated muscle, brain and ocular tissue⁶.

Cysticercosis manifestations are different and depend on the location in the body and also number of cysticercosis of a particular site and associated inflammatory response. 87% cysticercosis cases – presents as solitary or multiple subcutaneous nodules on the trunk, upper arm, neck, tongue, face and breast has been reported in this order of frequency.

In many patients involvement of central nervous system in the form of neuro Cysticercosis is diagnosed when multiple cystic ring enhancing parenchymal lesions has been detected on CT Scan⁷. We are not reporting this case because of its unusual site of presentation, but also the importance of histopathologic examination is emphasized since neither the clinical examination nor history suggested the diagnosis other than a benign lesion.

CASE REPORT

Photo micrographs showing cystic lesion containing parts of parasite and the cystic wall containing granulation tissue with inflammatory reaction.

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CASE REPORT

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