A Rare Case of Masseter Muscle Cysticercosis in a Young Female Patient Managed Conservatively

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ABSTRACT

Cysticercosis is caused by Taenia solium larvae infestation. Isolated oral cysticercosis is a very rare presentation of this disease. Here is a case of masseter cysticercosis in a young woman who presented with painful cheek swelling. Diagnosis is confirmed with history, clinical examination, and magnetic resonance imaging. Luckily patient got cured with conservative management.

Keywords: Albendazole, Cysticercosis, Masseter muscle cystercerosis, Masseter swelling

BACKGROUND

Cysticercosis is caused by the larval stage of pork tapeworm, the cysticercus cellulosae. It results from the ingestion of tapeworm eggs through contaminated food and water or dirty hands. Hence, it is commonly associated with contaminated pork eating. The most frequent sites of cysticercosis are subcutaneous tissue, brain, muscles, heart, liver, lungs, and peritoneum. It is very common to find multiple sites involved in cysticercosis.

CASE PRESENTATION

A 28-year-old woman presented with swelling and pain on her right cheek for the past 6 months. She had on and off fever, difficulty opening mouth. Oral examination revealed tenderness near third molar on upper aspect and subsequent opposite cheek mucosa. Outer aspect showed swelling, hard tender mass was felt near angle of mandible. Bimanual palpation of the right masster showed a tender, non-mobile nodule of approximately 1.5 cm diameter. Rest of the examination was within normal limits. There was no history of dryness of the mouth. She had history of consuming cooked meat at random place. She was on pain killers and did undergo some treatment for gum infection a year back.

Investigations

Magnetic resonance imaging (MRI) of masster muscle showed an oval-shaped, well-encapsulated cyst of 1.3 cm diameter with ring enhancement and eccentric dot sign [Figure 1]. Lesion was lying just above trunk of facial nerve and did not compress it. This confirmed the diagnosis of cysticercosis.

Management

The patient was started on albendazole 400 mg BD for 1 month and steroids for 1 month. The patient was evaluated after 1 month and to the surprise, swelling almost disappeared. The patient was relieved of pain and fever, mouth opening also increased. Repeat MRI scan showed cyst disappearance and fibrosis changes in masster muscle. The patient was followed for 1 month with steroid tappering and the patient was doing fine with complete resolution of swelling and symptoms [Figure 2].

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Figure 1: At presentation front profile

Figure 2: At presentation oblique presentation

Figure 3: Pre-treatment computed tomography scan

Figure 4: Post-treatment front picture

Figure 5: Post-treatment oblique profile

Figure 6: Post-treatment computed tomography scan
study, this curable disease should be suspected when patients present with the aforementioned symptoms [Figures 3-6].

**Conclusion**

Diagnosis is confirmed with history, clinical examination, and magnetic resonance imaging. Luckily patient got cured with conservative management.

**References**