Rhinosporidiosis Of The Face
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Citation

Abstract
Rhinosporidiosis and its causative organism are known more than hundred years but its mode of infection and transmission is still unknown. Here we report a case of rhinosporidiosis in the face induced by trauma with successful outcome with surgery.

INTRODUCTION
Rhinosporidiosis is a chronic granulomatous disease of muco-cutaneous tissue first described by Guillermo Seeberi in 1900 from Buenos Aires. The first case from India was reported by O’Kineay in 1903. Life cycle of this fungus was described by Ashworth in 1923. Face is one of the rare site of infection. Infection with contaminated soil through a traumatized mucosa is a strong factor in human cases. Nowadays adequate surgery with electrocoagulation of the base has established its roll in management of such cases.

CASE REPORT
A 37-year-old man from a rural background presented with a slow growing painless swelling on his left cheek for last three years. Initially it was the size of a nut, but gradually attained the size of 4cm x 3cm (Fig.-1) within three years. Few months back before the appearance of the swelling he had a road traffic accident with abrasion in that region, which healed on application of antibiotic ointment.

On examination there was a large pedunculated polypoid mass on the right side of the face with nodular surface. The...
draining lymph nodes were just palpable. He was normoglycaemic with a normal haemogram and renal biochemical parameters. Chest x-ray was normal. Biopsy from the swelling showed the typical sporangia of varying sizes having thick walls with moderate infiltration of lymphocytes and plasma cells with overlying hyperplastic squamous epithelium (Fig.-11). Excision of the mass with thorough electro coagulation of the base was done. There is no recurrence till one year of follow up.

**DISCUSSION**

Rhinosporidiosis is a chronic granulomatous condition commonly found in India and Sri-Lanka and rarely in Europe. Anterior nares and conjunctiva is the most common site of infection, but other rare sites are nasopharynx, larynx, maxillary antrum, skin of limbs, lachrymal sac, urethra, vagina, parotid duct, bone, vagina and rectum. Face is a very uncommon site of rhinosporidiosis and so far to our knowledge till now no such case has been reported in the face.

Though it is a fungal disease caused by Rhinosporidium seeberi, but its mode of transmission is controversial. Contaminated water and soil seems to be the source of infection. The presumed mode of infection from natural habitat of R. seeberi is through the traumatized epithelium. Frequent bathing in stagnant contaminated pond may lead to infection over a traumatized skin or mucosa. This particular case had a past history of abrasion injury contaminated with soil in the site of the disease. Absence of the disease in the family members of such cases or in the sexual partner in urethral cases proves that the disease is neither infectious nor contagious. Usually it presents as a discrete, friable, painless, sessile or pedunculated polypoid mass. Sometimes white pin head-sized spots may be seen on the surface due to matured sporangia. A strong suspicion in the endemic areas gives clue to the diagnosis of such condition. Only histology gives the definite diagnosis with identification of the organism in its diverse stages, and the stroma contains chronic inflammatory cells which include macrophages and lymphocytes with numerous neutrophils around the free endospores. Adequate surgical excision with electro coagulation of the base is the best treatment though there is a high chance of recurrence which is mainly due to inadequate excision.

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**References**

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