Histoplasmosis Of The Skull Bone In An HIV Positive Patient

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Citation

Abstract
Histoplasmosis is a common fungal infection endemic in many regions of America, Asia, India and Africa, with sporadic cases also occurring throughout the world. The usual manifestation of histoplasmosis is in the form of respiratory illness. The disease presents itself in many ways. The commonest route of infection is by inhalation and the commonest presentation is as a mild respiratory illness similar to a cold or influenza. However this infection affects the skin and bones may times presenting as a tumour. Histology usually settles the dilemma. Histopathological examination of the biopsy allows the diagnosis in 87% of the cases. The histoplasmosis represents an opportunist mycotic infection, particularly during the immunodeficiency periods. Presentation in an unusual way in an HIV patient is therefore not unexpected and physicians should be aware of this in considering the differentials of a tumour in such patients.

CASE REPORT
A 50 year old woman presented with left sided frontal swelling of six months duration. There was associated headache and pain. No history of trauma. Mass gradually increased in size with no fever or night sweat, no swelling in any other part of the body. No associated breast, neck or abdominal mass.

On examination, she was a middle aged woman, not pale afebrile, anicteric no associated peripheral lymph node enlargement. Head and neck examination revealed a fronto-parietal mass which measures about 5x10cm, circumscribed, not warmer than surrounding skin, soft, tender, attached to the skin and underlying structure, swelling was none emptying. No lymph node enlargement was observed. Other systems were essentially normal.

An assessment of metastatic lesion was made? X-ray of the skull showed an osteolytic lesion with irregular non-sclerotic margin seen in the left frontal bone. No calcification was seen. Impression of osteolytic frontal bone most probably metastatic? 1° site was also suggested.

Fine needle aspiration shows numerous organisms with thick wall and refractive properties (yeasts). The organisms show boldly with narrow base. There were numerous macrophages and polymorph nuclear cells and cellular debris at the background. Features were in keeping with fungal infection probably Histoplasmosis duboisii.

Patient had excision biopsy done findings at which were left frontal mass measuring about 5x10cm circumscribed, soft with mucopurulent fluid. Erosion of underlying frontal-parietal bone down to the dura but with intact dura and with extension to the orbital roof. Excision was done and the wound closed after copious irrigation with saline water. Biopsy confirmed Histoplasmosis duboisii with a section with numerous round to oval retractile organisms invading the surrounding fibrous tissue with inflammatory reaction in the background. There were few multinucleated giant cells engulfing these organisms. Patient had Tablet Fluconazole 100mg daily for three months. Wound healed perfectly with no complications and patient was referred to Haematologist for management of the HIV.
Figure 1
Figure 1: Preoperative finding of a frontal mass with a punctum.

A case of African Histoplasmosis of the skull associated with neurological deficit has been reported. There was complete recovery of neurological features after excision of the lesion followed by a course of co-trimoxazole.

Histoplasmosis of the maxillary bone have also been reported, and described as a diagnostic problem, mimicking malignant jaw tumors. Histoplasmosis has also presented as a facial tumor in a 13 year old child and diagnosis was established by histological examination of biopsy material. Orbital cysts due to histoplasmosis have also been reported. Fine needle aspiration for cytology was helpful in the current case with histological confirmation of the pathology after excision.

The current case is a case of Histoplasmosis duboisii of the skull with no neurological deficit and with the mass being confused for secondary/metastatic lesion in a patient with HIV infection. Excision biopsy with Fluconazole tablet led to resolution of the infection with perfect wound healing.

We conclude that Histoplasmosis duboisii should be considered as one of the differentials of skull masses, which may mimic metastases especially in an HIV/ AIDS patient with a swelling in the craniofacial area. It should also be noted that fine needle aspiration for cytology was actually adequate in making the diagnosis therefore allowing prompt diagnosis and treatment. The HIV status of this patient did not adversely affect the healing of the wound.

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