www.jmscr.igmpublication.org Index Copernicus Value: 79.54

ISSN (e)-2347-176x ISSN (p) 2455-0450

crossref DOI: https://dx.doi.org/10.18535/jmscr/v7i6.159



A Rare Case of Nasal Mass Presenting as Malignant Round Cell Tumour

Authors

Dr Vinay Gangwani¹, Dr V.P. Narve^{2*}, Dr Varsha Tripathi³, Dr Deepak Parmar⁴

^{1,3,4}Post Graduate Student, Department of ENT Jaya Arogya Hospital, Gwalior ²Professor and Head, Department of ENT Jaya Arogya Hospital, Gwalior *Corresponding Author

Dr V P Narve

Professor and Head, Department of ENT, Jaya Arogya Hospital, Gwalior, MP, India

Abstract

Malignant round cell tumour includes a group of neoplasm characterized by cells that are small, round and relatively undifferentiated. MSRCT of PNS is relatively uncommon and presents with nasal discharge, polyp, mouth breathing, snoring, headache.

Detailed clinical history as well as radiological imaging specially CT is essential, the diagnosis is made by biopsy and IHC studies.

Treatment modalities include chemotherapy, radiotherapy or both are initiated as soon as the diagnosis is made, keeping in view the poor progression and aggressive nature of MSRCT.

Introduction

Malignant round cell tumour is a term used for tumours composed of malignant round cells that are slightly larger or double the size of red blood cells in air dried smears⁽¹⁾.

This group of neoplasm is characterized by small, round relatively undifferentiated cells. Differential diagnosis of small round cells is particularly difficult due to their undifferentiated or primitive character.

In several study reports, fine needle aspiration cytology has become an important modality in diagnosis of these tumours^(2,3).

Case

A 40 yrs old male presenting at department of E.N.T. Gajra Raja Medical College and J.A. group of Hospitals Complaining of:

Discharge from left nasal cavity since 8 to 9 months.

Left sided nasal obstruction since 8 months.

History of:

- Mouth breathing.
- Snorring
- Facial pain
- Headache

Examination

Nose

Right deviated nasal septum.

Discharge in left nasal cavity

A pale polypoidal mass present in left nasal cavity posteriorly.

JMSCR Vol||07||Issue||06||Page 948-950||June

Mouth and Throat

Bulging of soft palate seen and uvula pushed to right side.

Posterior Rhinoscopy

Shows a pale mass seen filling the nasopharynx.







Investigations

Blood Routine: Normal

CECT PNS:

Ill defined heterogeneously enhancing mass lession in left maxillary sinus causing bony obstructions of the walls of maxillary sinus. Infiltrating to adjacent structures, causing bony destruction of surrounding bones. (neoplastic mass of left maxillary sinus)



Histopathology

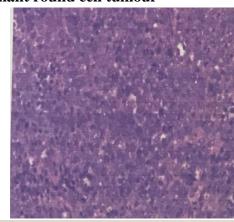
Gross Examination

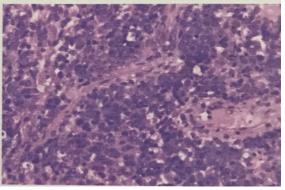
Multiple greyish white to greyish brown irregular tissues measuring about 2cm * 2cm.

Microscopic Examination

Diffusely arranged cells showing pseudofollicles, small to intermediate cells showing cleaved nuclei and inconspicuous nucleoli scant amount of few mitosis are also seen with prominent vasculature.

Impression Malignant round cell tumour





Treatment

Excision of Mass with oral or Nasal Route.

Discussion

Nasal mass malignancy is uncommon, out of which most common type is squamous cell carcinoma. Nasal cavity and PNS as the site of malignant round cell tumour is extremely uncommon.

Tumous that show good differentiation are easy to diagnose but identification of diagnostic, morphological features are difficult when a tumour is poorly differentiated, therefore, no definitive diagnosis is possible⁽⁴⁾.

The role of CT imaging is very important to localise the disease and see for extention of disease. A biopsy is mainstay for diagnosis, which leads to HPE diagnosis. Immunohistochemistry also has a major role in the exact configuration of MSRCT.

The treatment protocol of MSRCT is not yet established. Combined treatment (surgery, chemotherapy and radiotherapy) is currently applied, although prognosis remains poor.

Reference

- Kocjan G. Diagnostic dilemas in FNAC cytology: small round cell tumors. In: Schroder G, editor. Fine needle aspiration cytology diagnostic principles and dilemmas. Berlin: Springer-Verlag; 2006. pp. 133–4.
- 2. McGahey BE, Moriarty AT, Nelson WA, Hull MT. Fine-needle aspiration biopsy of small round blue cell tumors of childhood. Cancer. 1992;69:1067–73.
- 3. Layfield LJ, Liu K, Dodge RK. Logistic regression analysis of small round cell neoplasms: a cytologic study. Diagn Cytopathol. 1999;20:271–7.

4. Akhtar M, Ali MA, Sabbah R, Bakry M, Nash JE. Fine-needle aspiration biopsy diagnosis of round cell malignant tumors of childhood: A combined light and electron microscopic approach. Cancer. 1985;55:1805–17.