CASE REPORT

PRIMARY EXTRANODAL NON-HODGKIN’S LYMPHOMA OF LEFT TONSDIL: A CASE REPORT
N. Vijayendra Simha¹, Nitha², Sreenivas N³

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ABSTRACT: Lymphoma encompasses a complex group of malignancies of the lymphoreticular system. Non-Hodgkins lymphoma of the Waldeyer’s ring is a rare entity. Chemoradiation gives a better prognosis. Here a case of unilateral palatine tonsil NHL with B cell lineage has been reported.

KEYWORDS: Tonsillar NHL, Lymphoreticular malignancy, Tonsillar asymmetry.

INTRODUCTION: Primary localized extranodal non-Hodgkin’s lymphoma of head and neck account for 10-20% of all NHL’S. NHL of the Waldeyer’s ring is a relatively rare entity. 70% occurs in the palatine tonsils but it accounts for less than 1% of head and neck malignancies.¹, ², ³ Most lymphomas in palatine tonsils are the B-cell type and diffuse large B cell lymphoma (DLBCL) represents around 67-96%.⁴, ⁵

CASE REPORT: A 38 year old male presented with 2 episodes of sore throat from one month, insidious in onset and gradually progressive with no aggravating factors but relieved to an extent with medications. There were no constitutional symptoms. On examination, asymmetrical tonsillar hypertrophy was seen with grade 3 on the left and grade 2 on the right. Routine investigations were within normal limits. Tonsillectomy was done with a tentative diagnosis of lymphoma. Histopathological analysis revealed NHL of the tonsil, diffuse large B cell lymphoma (non GCB like). Immunohistochemically neoplastic cells were positive for CD 20 and Mum 1 and negative for CD 10 and bcl 6. Ki-67 proliferation index was about 70%. Reactive T cells were positive for CD3. Patient was treated with chemotherapy and radiotherapy and has been disease free on follow up of 1 year.

Fig. 1: Neoplastic cells positive for Mum 1
Fig. 2: Neoplastic cells positive for CD20

Fig. 3: Neoplastic cells negative for CD 10

Fig. 4: Ki-67 – 70% Proliferation index
CONCLUSION: Non-Hodgkin’s lymphoma rarely involves tonsils with the diffuse large B-cell type being common at this location. A combined treatment consisting of chemotherapy and radiotherapy leads to a satisfactory outcome in patients with this uncommon neoplasm, which tends to present at an early stage and to have a favorable prognosis.

DISCUSSION: Non-Hodgkin’s lymphomas are a broad heterogeneous category of neoplasms arising in the reticulo endothelial and lymphatic system. It is the second most common neoplasm in the head and neck region after squamous cell carcinoma. The Waldeyer’s ring (including tonsil, nasopharynx, and base of tongue) is the most common extranodal site.7 Peak incidence is in the 6-7 decades of life with a male predominance.

The vast majority is constituted by the B cell lineage including the diffuse large B-cell lymphoma, follicular lymphoma, mantle cell lymphoma, extranodal marginal zone B-cell of MALT type and less commonly by T -cell lines.8, 9, 10 Diffuse large B-cell is the most common histologic type and is an aggressive variety.

Symptoms and signs are non-specific and occur as a result of asymmetrical tonsillar enlargement, sensation of fullness in the throat, sore throat, dysphagia, odynophagia, otalgia, cervical adenopathy, tonsillar swelling or snoring. Systemic symptoms, such as fever, weight loss and night sweats are uncommon and may develop in advanced disease.1

Only 4 cases of bilateral non-Hodgkin’s lymphoma of the tonsils have been reported in the English literature. Early stage disease and small lesions had 5-year survival rates of 65%-85% when compared to bulky lesions(lesions more than 7 cms) especially the tonsils.11, 12, 13

Localized non-Hodgkin’s lymphomas (NHLs) of the head and neck are treated with chemotherapy or/and combination radiotherapy.14,15,16 Combined chemoradiation is frequently used as the primary treatment in view of local relapses due to bulky disease and aggressive histology and for complete remission and better survival rates.17, 18, 19, 20

CONCLUSION: NHL of the Waldeyer’s ring is relatively rare and nothing can substitute a high index of clinical suspicion in the diagnosis of primary tonsillar lymphomas. Combined chemoradiation is highly effective and leads to a satisfactory outcome with favourable prognosis, albeit a high frequency of aggressive histology.

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