Initial presentation of Hodgkin’s Lymphoma as Extradural Spinal Cord Compression: A case report

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CASE REPORT

A 23 year old female presented with acute onset paraparesis. She denied any history of fever, weight loss or drenching night sweats. Neither did she have any obvious lymphadenopathy on general examination. Chest Xray was however suggestive of mediastinal widening and her MRI spine showed metastases with superior mediastinal SOL. Biopsy of this SOL ultimately revealed classical Hodgkin lymphoma. Thus this was a very unusual initial presentation of Hodgkin lymphoma presenting as Epidural Spinal Cord Compression. Hasenclever IPS score was 2. Patient was treated with radiotherapy followed by ABVD chemotherapy and achieved remission in 3months.

Key words: Hodgkin’s Lymphoma; Paraparesis; Extradural Spinal Cord Compression

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INTRODUCTION

Hodgkin’s Lymphoma comprises of 10-15% of all Lymphoma cases and has a bimodal age distribution with a peak in the third decade as well as the seventh. The usual clinical presentations include:

a) Asymptomatic lymphadenopathy, most commonly above the diaphragm
b) Constitutional symptoms also known as the “B” symptoms - fever, weight loss and drenching night sweats presenting approximately 40% cases
c) As fever of unknown origin (intermittent fever - Pel Ebstein fever) in 35%
d) SVC Syndrome due to Mediastinal Lymphadenopathy;
e) Patients may present with pruritus; pain at sites of nodal disease, precipitated by drinking alcohol, occurs in fewer than 10% of patients but is specific for Hodgkin lymphoma;
f) Back or bone pain may rarely occur.

A family history may be helpful; nodular sclerosis Hodgkin lymphoma (NSHL) has a strong genetic determinant and has often been previously diagnosed to run in the family. Hodgkin lymphoma is a potentially curable lymphoma.

Here we present a very rare presentation of Hodgkin’s Lymphoma initially presenting as Paraparesis due to Compressive Myelopathy.

CASE REPORT

A 23 year old female started experiencing pins and needles on both her Upper Limbs for 2 days, this was followed by an acute painful retention of urine, followed by an acute onset Paraparesis. She also had a sense of band like tightness over her mid - chest. She denied having experienced any fever, weight loss or drenching night sweats. She denied having any chest pain or shortness of breath or hoarseness. Patient had no history of fever or diarrhoea or recent vaccination preceding this event. No history of ‘TB/of TB contact. No history of trauma or any significant family history was elicited.

On examination, she was found to be mildly anaemic with no hepato- splenomegaly or obvious lymphadenopathy.

ABSTRACT

A 23 year old female presented with acute onset paraparesis. She denied any history of fever, weight loss or drenching night sweats. Neither did she have any obvious lymphadenopathy on general examination. Chest Xray was however suggestive of mediastinal widening and her MRI spine showed metastases with superior mediastinal SOL. Biopsy of this SOL ultimately revealed classical Hodgkin lymphoma. Thus this was a very unusual initial presentation of Hodgkin lymphoma presenting as Epidural Spinal Cord Compression. Hasenclever IPS score was 2. Patient was treated with radiotherapy followed by ABVD chemotherapy and achieved remission in 3months.

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exaggerated Deep Tendon Reflexes in the lower limb with presence of ankle and knee clonus. Tone was increased in the lower limbs with a Power of 2/5 bilaterally in the Lower limbs and a power of 4/5 in B/L Upper limbs.

Definite sensory level was also present. Clinically lesion was localised to the lower cervical, upper thoracic level. Routine Lab Reports revealed a microcytic-hypochromic anaemia Hb = 10.6gm/dl ESR = 30mm/hr, TC = 4560/ micro litre with Neutrophils 76%

Lymphocytes 16% Platelets = 365000/cu.mm, LDH = 375 (Ref. range 350-450) Albumin = 3.6gm/dl USG abdomen was performed and revealed no hepato-splenomegaly or Retro - peritoneal lymphadenopathy. CXR was suggestive of mediastinal widening. MRI of Cervical and Thoracic Spine with contrast was done and it showed D1 vertebral Metastasis with epidural extension compressing upon the spinal cord from C6 to D3 level [Figures 1 and 2]. It also confirmed Mediastinal Lymphadenopathy and was suggestive of lymphoproliferative disorder. A CT guided Biopsy was obtained of the mediastinal SOL - Classical Hodgkin’s Lymphoma was diagnosed on Immunohistochemistry. A bone marrow biopsy was also done which was normal.

Patient was started on Radio therapy with dexamethasone for the Spinal Compression. This was followed by ABVD regime.

She has responded to therapy and is able to walk without support. Her lymphoma too is currently in remission - from
a Deauville score of 5 at diagnosis to a Deauville score of 1 in 3 months [Figure 3].

**DISCUSSION**

Hodgkin disease commonly presents with fever and lymphadenopathy with or without hepato-splenomegaly. Usually there is contiguous spread of disease via lymphatics with metastases occurring in advanced disease. Five percentage of HD may have spinal cord compression in advanced stages, however, initial presentation of Hodgkin’s Disease as Extradural Spinal Cord Compression (ESCC) is extremely rare with less than 0.02% frequency. Mechanism of ESCC may be through direct extension of tumour mass through the intervertebral foramina. Most commonly it is found to afflict the thoracic spine.

**PRACTICAL IMPLICATIONS**

Although rare, Hodgkin’s Disease can present initially as Compressive myelopathy without any features of disease elsewhere. Hence, must be included amongst the differentials for Neoplasms causing Spinal Cord Compression.

**REFERENCES**


**Authors Contribution:**
SC- Drafted the manuscript and did literature research; RM- Provided treatment to the patient in case and reviewed manuscript.

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