A PubMed literature search was performed using keywords: Hodgkin’s lymphoma (AND) meningioma, Hodgkin’s lymphoma (AND) brain tumor.

Methods

- A PubMed literature search was performed using keywords: Hodgkin’s lymphoma (AND) meningioma, Hodgkin’s lymphoma (AND) brain tumor.
- Published between 1964-2022
- Human
- English Language.

Case Report

- A 17-year-old adolescent female presented with cervical lymphadenopathy and transient right foot paresthesia and weakness.
- Excisional lymph node biopsy confirmed classical, nodular sclerosing HL.
- Staging for HL included CT-neck, chest, abdomen, and pelvis and PET-CT.
- CT neck visualized a brain lesion.
- MRI brain noted a posterior frontal lobe mass, most consistent with a meningioma.
- With physical therapy, full resolution of this deficit resulted in right sided lower extremity weakness.
- 6 months off therapy, continues to be in remission.

Background

- Hodgkin lymphoma (HL) is a type of cancer affecting lymph nodes.
- Neurological complications in HL are rare.
- HL makes up 3% of cancer in children 14 years and younger and 11% of adolescents aged 15-19 years.
- Lymphoma is the second most common cancer in adolescents.
- Identification of concurrent HL and a brain tumor is very uncommon.
- This study describes a patient with concurrent diagnoses of meningioma and HL.

Results

- Staging evaluation for HL included CT-neck, chest, abdomen, and pelvis and PET-CT.
- For HL, patient final stage was IIIA, intermediate risk.
- Hodgkin’s lymphoma over the meningioma.
- Given the rarity of CNS involvement, current staging guidelines for Hodgkin’s lymphoma do not involve screening of the head in pediatric patients.
- At the time of her concurrent diagnoses, her treatment team felt it was medically necessary to prioritize the treatment of her Hodgkin’s lymphoma over the meningioma.
- A delay in treatment of lymphoma could result in life-threatening sequelae from worsening lymphadenopathy and ultimately decreasing overall survival for this diagnosis.

Literature Review

- Rarely, 0.2-0.5% of HL cases have CNS involvement.
- Currently HL has an average 5-year survival rate of 97%.
- Since 1964, there have been less than 10 published articles regarding HL with CNS metastasis and 2 articles regarding concurrent diagnosis of HL and CNS tumors.
- None of these cases occurred in pediatric patients, defined as 0-19 years.

Discussion

- Our case highlights the rarity of concurrent diagnoses of two distinct malignancies in the pediatric population.
- Given the rarity of CNS involvement, current staging guidelines for Hodgkin’s lymphoma do not involve screening of the head in pediatric patients.
- Given our unique case, future consideration should be made for baseline imaging of CT head, especially in cases with minor neurological deficits.
- At the time of her concurrent diagnoses, her treatment team felt it was medically necessary to prioritize the treatment of her Hodgkin’s lymphoma over the meningioma.

References


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