

Superior mediastinal syndrome in a child with B-cell acute lymphoblastic leukemia: A case report

Rahat Ul Ain¹, Mahwish Faizan¹, Saba Fatima¹, and Khalid Mahmood¹

¹The Children's Hospital and the Institute of Child Health

April 16, 2024

Abstract

Superior mediastinal syndrome secondary to an anterior mediastinal mass can be seen in acute lymphoblastic leukemia of T-cell lineage. We report a 3 years old child with B-cell ALL, who presented with superior mediastinal syndrome. The CT scan chest showed a huge anterior mediastinal mass and the peripheral blood immunophenotyping showed B-cell acute lymphoblastic leukemia. High-risk remission induction chemotherapy was given and he achieved remission by the end of induction therapy, both in terms of medullary and extramedullary disease. This is the first reported case of a pediatric B-cell ALL presenting with the superior mediastinal syndrome.

Hosted file

Main document. Mediastinal mass in B-cell ALL.docx available at <https://authorea.com/users/337264/articles/710651-superior-mediastinal-syndrome-in-a-child-with-b-cell-acute-lymphoblastic-leukemia-a-case-report>

Hosted file

Table 1.docx available at <https://authorea.com/users/337264/articles/710651-superior-mediastinal-syndrome-in-a-child-with-b-cell-acute-lymphoblastic-leukemia-a-case-report>

Hosted file

Figure 1.docx available at <https://authorea.com/users/337264/articles/710651-superior-mediastinal-syndrome-in-a-child-with-b-cell-acute-lymphoblastic-leukemia-a-case-report>