

Clinical Analysis of Air-Leak Syndrome Following Allogeneic Hematopoietic Stem Cell Transplantation in Pediatric Patients

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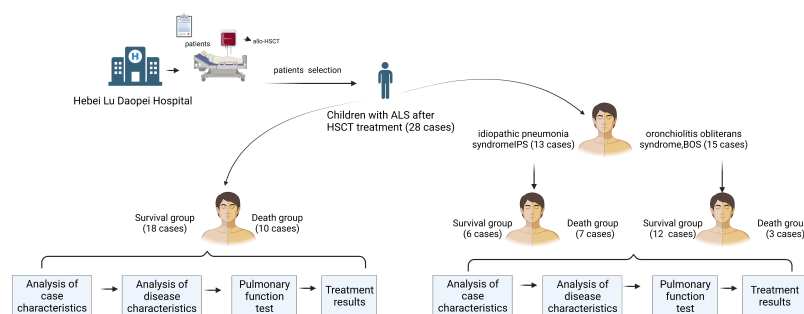
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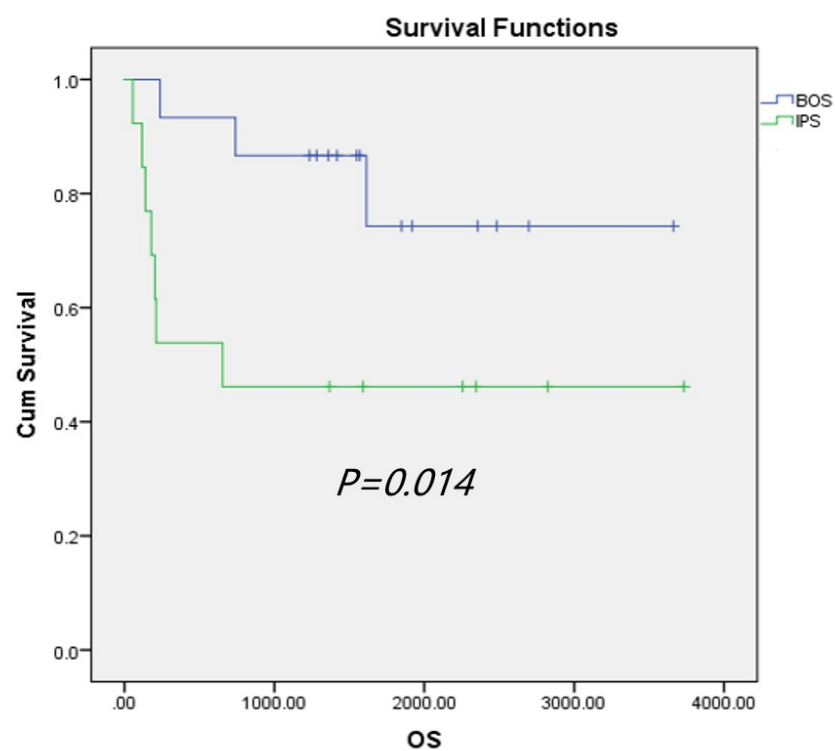
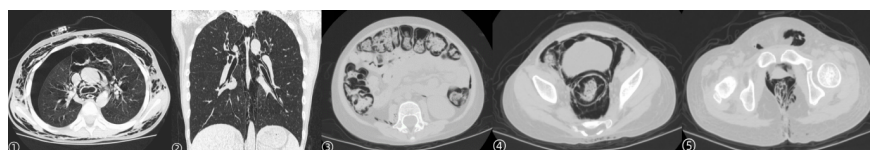
Abstract

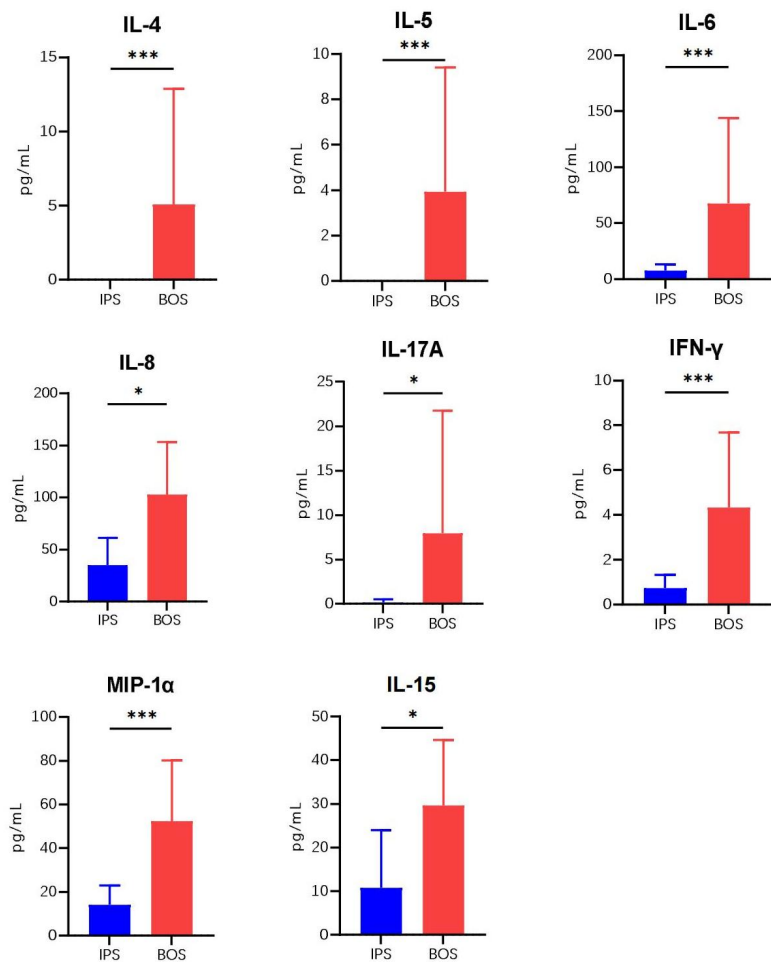
Air-leak syndrome (ALS) is an independent poor prognosis factor among adult patients who have received hematopoietic stem cell transplantation (HSCT), which 5-year overall survival (OS) is less than 30%. However, the clinical features of ALS among post-transplant pediatric patients have rarely been explored. We retrospectively reviewed 2,206 pediatric patients who received an allo-HSCT between January 2013 and December 2019 at the Hebei Yanda Lu Daopei Hospital and analyzed the role of ALS in their prognosis following HSCT. We divided ALS into two categories: 15 cases of bronchiolitis obliterans syndrome (BOS) and 13 cases of idiopathic pneumonia syndrome (IPS). Following treatment of the ALS, 18 patients survived (18/28, 64.3%) and 10 patients died of respiratory failure or infection (10/28, 35.7%). The OS of ALS in our hospital is significantly higher than that cited in previous reports which may be related to early diagnosis and timely FAM treatment.

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