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Summary

ULTRASONOGRAPHIC SCORING SYSTEM OF SINUSOIDAL OBSTRUCTION SYNDROME/VENO-OCCLUSIVE DISEASE IN PEDIATRIC PATIENTS AFTER HEMATOPOIETIC STEM CELL TRANSPLANTATION

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The Hokkaido ultrasound-based scoring systems (HokUS-10 and HokUS-6) demonstrated high diagnostic accuracy for sinusoidal obstruction syndrome/veno-occlusive disease in pediatric hematopoietic stem cell transplantation patients, with optimal cut-off values differing from adults.

KEY POINTS

- In 101 pediatric HSCT patients (median age 6 years), 13 (12.9%) developed SOS/VOD at a median of 28 days post-transplant, all presenting with transfusion-refractory thrombocytopenia, hepatomegaly, and ascites.
- HokUS-10 (10-parameter ultrasound scoring system) achieved an AUC of 0.981 with 100% sensitivity and 85.2% specificity at a cut-off value of 4, compared to 84.6% sensitivity when using the adult cut-off of 5.
- HokUS-6 (6-parameter system requiring ascites) achieved an AUC of 0.966 with 84.6% sensitivity and 95.5% specificity at a cut-off value of 2.
- Ultrasound detection preceded clinical diagnosis by five days in one case and was concurrent in other cases; most diagnosed patients had severe or very severe disease (grade 3 or 4).
- The study supports using a lower cut-off value of 4 for HokUS-10 in pediatric patients rather than the adult threshold of 5 to optimize diagnostic sensitivity.

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