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Prospective Study

13 Magnetic resonance imaging of the transplanted pediatric heart as a potential predictor of rejection

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Abstract

AIM: The purpose of this study was to evaluate cardiac magnetic resonance imaging (CMR) as a non-invasive tool to detect acute cellular rejection (ACR) in children after heart transplant (HT).

METHODS: Thirty pediatric HT recipients underwent CMR at the time of surveillance endomyocardial biopsy (EMB) and results were compared to 14 non-transplant controls. Biventricular volumes, ejection fractions (EFs), T2-weighted signal intensities, native T1 times, extracellular volumes (ECVs) and presence of late gadolinium enhancement

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We **use MRI** to **detect** immune-cell infiltration at sites of **rejection** by ... Keywords: **MRI**, non-invasive **detection** of acute cardiac **rejection**, **cardiac transplantation**, biopsy ... sizes

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