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## **The Impact of Timing and Graft Dysfunction on Survival and Cardiac Allograft Vasculopathy in Antibody Mediated Rejection**

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Short title: Late Antibody Mediated Rejection with Graft Dysfunction

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### **ABSTRACT**

#### **Background:**

Antibody mediated rejection (AMR) has been associated with increased mortality and cardiac allograft vasculopathy (CAV). Early studies suggested that late AMR was rarely associated with graft dysfunction while recent reports have demonstrated an association with increased mortality. We sought to investigate the timing of AMR and its association with graft dysfunction, mortality, and CAV.

#### **Methods:**

This retrospective cohort study identified all adult heart transplant recipients at Columbia University Medical Center from 2004-2013 (689 patients). There were 68 primary cases of AMR, which were stratified by early (<1 year post-OHT) or late (>1-year post-OHT) AMR. Kaplan-

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