**CASE SERIES USING THE ROTAFLOW SYSTEM FOR TEMPORARY RIGHT VENTRICUALR ASSIST DEVICE FOLLOWING HEARTMATE II IMPLANTATION**

**A. Khani-Hanjani**, G. Loor, M. Mountis, T. Chameogeorgakis, A. Shafii, M. Hanna,

E. Soltesz, G.V. Gonzalez-Stawinski

Cleveland Clinic, Cleveland, OH, USA

Purpose: To investigate the outcomes of using the RotaFlow as a temporary right ventricular assist support device (RVAD) in patients who develop right ventricular dysfunction (RVD) at the time of left ventricular assist device (LVAD) implantation with the Heart Mate (HM) II.

Methods: A retrospective chart review of patients in whom the RotaFlow system was utilized for RV support during HM II implantation from October 2009 to September 2011.

Results: Twelve patients received a RotaFlow as an RVAD at the time of HM II implantation. Eighty three percent had by preoperative echocardiography evidence of either moderate or severe RVD. Drakos’ RVD risk model predicted the need for RVAD at the time of HM II implantation in most patients (83 %). The most common complications in the postoperative period were the need for tracheostomy because of respiratory failure (45%) and mediastinal bleeding requiring exploration (36%). Ninety one percent of patients survived to discharge, and all where alive at one year follow-up.

Conclusions: Our results show that temporary RVAD support with the RotaFlow system in the setting of RVD at the time of HMII implantation is a feasible and effective.