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TEVAR for Uncomplicated Acute Type B Aortic Dissection: What is Success?

Ganesh S Kumpati*

Editoria

Division of Cardiothoracic Surgery, University of Utah, UT 84132, USA

Type B aortic dissection (typically beginning just distal to the left subclavian artery with variable distal propagation) is a commonly identified clinical problem. Acute type B aortic dissection (less than 14 days from onset) is divided into two types: complicated and uncomplicated. For complicated dissections (visceral malperfusion, aortic rupture, symptoms despite maximal medical therapy), endovascular repair has represented a significant advance over open repair options, and represents a major treatment advance [1] for this difficult problem. Following intervention for complicated aortic dissection, there is positive remodeling of the remaining dissected aorta [2].

Although medical therapy has good short term outcome for uncomplicated type B aortic dissection, long term outcome with medical therapy is not good [3]. Late aorta-related morbidity and mortality is related to progressive aneurysmal dilation of the false lumen with late aortic rupture. Once established aneurysmal dilation of the false lumen has occurred, treatment options become difficult, ranging from endovascular intervention with lower morbidity but variable outcome to open surgery with higher morbidity but excellent long term outcome. Thus, the ideal endovascular intervention would eliminate the aortic dissection early enough in the course of the disease to eliminate late aneurysm complications before an open procedure would be necessary.

The INSTEAD trial has attempted to answer this question. At 2 year

follow up, the morbidity for the treatment arm (endovascular repair) versus medical therapy were similar [4]. The treatment arm had more patients with stabilization/regression of the false lumen flow. Long term follow up is necessary to see if this reduces aneurysm formation.

The finding that endovascular intervention did not reduce mortality at 2 years as compared to medical therapy is not a surprise. The real issue is whether late mortality from aortic events is reduced by early intervention. The ability to perform minimally invasive intervention to prevent a later major procedure is quite appealing. This represents the future of treatment for thoracic aortic disease.

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*Corresponding author: Ganesh S Kumpati, MD, Division of Cardiothoracic Surgery, University of Utah, 30 N. 1900 E., #3C-127, Salt Lake City, UT 84132, USA, Tel: (801) 581-5311; Fax: (801) 585-3936; E-mail: Ganesh.Kumpati@hsc.utah.edu

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