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Outcomes of Endovascular Management of Aortic Arch Lesion

Attapoom Susupaus, Wittawat Pibul, Rakphun Swasdiapanich, Saksan Jitvisate

Abstract

Objective: Assess the outcomes of treating aortic diseases involving the transverse aortic arch with a hybrid approach in high-risk patients.

Material and Method: Between March 2008 and January 2010, 29 thoracic stent grafts were implanted in 15 patients with aortic arch disease (mean age, 66.9±9.34 years) for aortic arch repair of eight degenerative aneurysms, two complicated aortic dissections, and five penetrating atheromatous ulcer or pseudoaneurysm. Debranching was performed to provide an adequate proximal aortic landing zone, in five patients by a cervical approach and in four patients by a sternotomy approach.

Results: The technical success rates for aortic zone 0 patients (n = 4), zone 1 patients (n = 3), and zone 2 patients (n = 8) were 100%. The 30-day mortality rate was 6.7%. The actuarial survival was 80% over a mean follow-up of 11.7 months. The rate of stroke was 6.7%. There was type II endoleak in one patient.

Conclusion: The use of a hybrid endovascular and open surgical approach for the treatment of arch diseases is safe and effective at early follow-up, including the potential to offer therapy to patients who are not candidates for open repair.

Keywords: Thoracic aorta, Aortic arch, Aortic dissection, Endovascular repair, Stent graft

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The Medical Association of Thailand

Address: 4th Floor, Royal Golden Jubilee Building, 2 Soi Soonvijai, New Petchburi Road, Bangkok 10310, Thailand

Telephone: 0-2716-6102, 0-2716-6962 press 0 Fax: 0-2314-6305

E-mail: jmedassocthai@yahoo.com, math@loxinfo.co.th 