

ORAL PRESENTATION

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Outcome of surgery for laryngotracheal stenosis in grade III and IV subglottic stenosis

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From 23rd World Congress of the World Society of Cardio-Thoracic Surgeons
Split, Croatia. 12-15 September 2013

Background

Treatment for laryngotracheal stenosis is technically challenging and no therapeutic algorithm exists.

Methods

Thirteen patients with laryngotracheal stenosis were treated. Ten were males and 3 females with an age range of 4–60 years. The cause of airway stenosis was prolonged intubation in 10, blunt trauma injury and idiopathic subglottic stenosis in 2 and 1 consequence. Preoperative assessment included bronchoscopy, neck and chest CT scan to determine the extension of stenosis. The upper margin of the stricture was 3 mm to 1.0 cm below the vocal cords; the stenotic segment extended from 3 to 6 cm. All patients except one had tracheostomy for a long period. Two patients had failed previous resections. In 10 patients dilatation and insertion of Montgomery T tube was the initial procedure. Pearson's technique was used for laryngotracheal resection. Suprahyoid laryngeal release was performed in 8. Montgomery T tube were placed in 12 and left in place for 1 year.

Results

Decanulation was done with success in all except 2 in first attempt. Circumferential granulation in one patient was excised and reinsertion of T tube for another 6 months was associated with successful decanulation. A kid who had resection at age 6 with poor compliance came back early to re-tracheostomy. He re-operated at age 14 with successful final decanulation. Endoscopic Laser and / or APC were used in 2 patients after T tube decanulation.

Conclusion

Surgical management of laryngotracheal stenosis is the treatment of choice. However, primary surgery is not

always feasible. A consequence or combined approach should be considered.

Published: 11 September 2013

doi:10.1186/1749-8090-8-S1-O217

Cite this article as: Davari: Outcome of surgery for laryngotracheal stenosis in grade III and IV subglottic stenosis. *Journal of Cardiothoracic Surgery* 2013 8(Suppl 1):O217.

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