


## A case series evaluating rates of post-tonsillectomy haemorrhage (PTH) requiring a second surgery in 783 children receiving COBLATION<sup>®</sup> Intracapsular Tonsillectomy (CIT)


Albright JT, Duncan NO, Smerica AM, Edmonds JL. Intra-capsular complete tonsillectomy, a modification of surgical technique to eliminate delayed post-operative bleeding. *Int J Pediatr Otorhinolaryngol.* 2020;128:10970.

Available at: [International Journal of Pediatric Otorhinolaryngology](#)  

### Key points



**0 children** receiving CIT required a second surgery for PTH over a 12-month period (n=783)



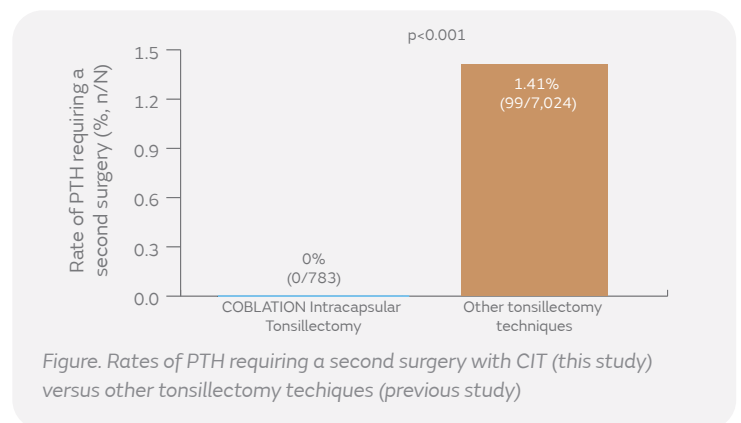
**CIT demonstrated significant improvements in PTH requiring secondary surgery** versus a study of other techniques at the same centre (0 vs 1.41%; p<0.001)

### Overview

- A retrospective, multi-surgeon case series evaluating the rate of PTH requiring a second surgery following the introduction of the CIT technique for paediatric tonsillectomy at a single centre in the USA
- A total of 783 children received CIT over a 12-month period
- Both infective and obstructive tonsillectomy indications were included
- The CIT procedure involved attempting a complete tonsillectomy without violating the capsule and injuring the underlying pharyngeal muscles
- PTH rates were compared with a previous study at the same centre (n=7,024) evaluating various other tonsillectomy techniques: COBLATION, COBLATION with partial suture closure, diathermy and partial intracapsular tonsillectomy

### Results

- None of the 783 children receiving CIT experienced PTH requiring a second surgery during the 12-month study period
- The rate of PTH requiring a second surgery was significantly lower with CIT than in a previous study of other tonsillectomy techniques at the same centre (Figure)



### Conclusions

In a case series of 783 children, no child receiving a COBLATION Intracapsular Tonsillectomy experienced a post-tonsillectomy haemorrhage requiring a second surgery. These findings were significantly improved compared with a previous study at the same centre evaluating other tonsillectomy techniques.