

CLAHRC BITE

Brokering Innovation Through Evidence

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A bite-sized summary of a piece of research supported by NIHR CLAHRC West Midlands.

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Incidence of indications for tonsillectomy and frequency of evidence-based surgery

Background:

- Tonsillectomy (removal of the tonsils) is the most common surgical operation in children, with around 37,000 carried out each year, costing the NHS £42 million.
- Recurrent or chronic sore throat (defined by guidelines as 7 or more sore throats per year) is the most common reason for tonsillectomy in the UK.
- Current evidence suggests it results in a slight reduction in symptoms in children (3-15 years) who are severely-affected, but it is not worthwhile in other cases.
- There has been no population-wide study looking at how many children undergo tonsillectomy.
- We reviewed primary care data from The Health Improvement Network (THIN), containing anonymised information from over 700 UK general practices, to chart tonsillectomies over a 12-year period.

Findings:

- We looked at 1,630,807 children who were followed up between 2005 and 2015.
- Around 4 in 1,000 children met evidence-based criteria for surgery, most of whom had a high number of recurrent sore throats.
- Fewer than 1 in 7 of these children were given the surgery.
- Most tonsillectomies were given for nonevidence-based reasons. In particular, the guidelines for the minimum number of sore throats per year was not followed – most tonsillectomies (54.5%) were carried out on children reporting only 1-4 sore throats per year.
- Overall, 7 in 8 (32,500 out of 37,000 annually) of those who undergo tonsillectomy are unlikely to benefit.
- The broad definition of a sore throat may slightly overestimate the number of evidence-based indications.
- The findings are drawn from a very large dataset over a long period of time.

Reference:

Šumilo D, Nichols L, **Ryan R**, **Marshall T**. Incidence of indications for tonsillectomy and frequency of evidence-based surgery: a 12-year retrospective cohort study of primary care electronic records. *Br J Gen Pract* 2018; 69: e33-41. doi: https://doi.org/10.3399/bjgp18X699833.



Recommendations for Practice

Most children meeting the evidence-based criteria for a tonsillectomy do not undergo the surgery, so it cannot be considered a necessity.

Doctors should inform parents that most children with either recurrent sore throats or sleep apnoea do not undergo tonsillectomy and have no need to.

What is NIHR CLAHRC West Midlands?

The Collaboration for Leadership in Applied Health Research and Care (CLAHRC) is a partnership between three universities (Birmingham, Warwick, and Keele) and a number of health and social care organisations in the West Midlands. We are funded by the National Institute for Health Research with a mission to undertake high-quality applied health research focused on the needs of patients to improve health services locally and beyond.

For further information, visit:

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