Commissioning guide: Tonsillectomy

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1. Introduction

This commissioning guide comprises two pathways of care which culminate in tonsillectomy:

- Recurrent tonsillitis or its complications (e.g. quinsy) in children <16 years and in adults
- Obstructive sleep disordered breathing in children <16 years

Recurrent acute sore throat is a very common condition presenting in primary care and tonsillectomy is one of the most common operations. It presents a significant burden of disease; in the period quarter 1 to quarter 4 2014/15 10,155 tonsillectomies were carried out for recurrent tonsillitis in children (less than 17 years) and 2,228 in adults in England. In the same period 15,104 procedures were carried out for sleep disordered breathing in children in England.¹

There is an inequality of care demonstrated by widespread variation in the number of operations across the country; this makes an understanding of the pathway of care for this group of patients a commissioning priority.

For tonsillectomy there is good evidence addressing effectiveness in children; but limited evidence in adults.

2. High Value Care Pathway for Tonsillectomy

This section provides two pathways:

1.1 Pathway for recurrent tonsillitis/ sore throat or its complications (e.g. quinsy) in children <16 and in adults

Primary care assessment

- Non-prescription of antibiotics does not mean that sore throats have been inadequately treated
- Carefully assess (history and examination) a patient with sore throat symptoms and document diagnosis of significant sore throat or tonsillitis
- Carefully assess and document impact on quality of life
- There is a role for the use of patient decision aids and shared decision making at this point in pathway

There is no evidence that antibiotics have a role in preventing recurrent tonsillitis.

**Referral**

- Consider referral if SIGN criteria are met (i.e. 7 or more significant sore throats (with impact to patient and family) in the preceding 12 months or 5 or more episodes in each of the preceding two years, or 3 or more in each of the preceding three years).

- The impact of recurrent tonsillitis on a patient’s quality of life and ability to work or attend education should be taken into consideration. A fixed number of episodes, as described above, may not be appropriate for children and adults with severe or uncontrolled symptoms, or if complications (e.g. quinsy) have developed.

- There are a small proportion of patients with specific clinical conditions or syndromes, who require tonsillectomy as part of their on-going management strategy, and who will not necessarily meet the SIGN guidance (e.g. those presenting with psoriasis, nephritis, PFAPA syndrome).

- Before referral to secondary care, discuss with patient/parents or carers the benefits and risks of tonsillectomy vs. active monitoring. Sign post patients to relevant information and reassurance given if no further treatment or referral for tonsillectomy is deemed necessary at this stage. This discussion should be documented.

**Secondary care**

- Confirmation of primary care assessment, fulfilment of SIGN criteria for tonsillectomy and impact on quality of life and ability to work/attend school

- Consultation with patient about management options using shared decision making strategies and tools where appropriate

- Management options: tonsillectomy, or referral back to primary care for active monitoring

**Surgical setting**

- *Children*: Usually within a surgical facility with facilities for children as a day case
- *Adults*: Usually as a day case
1.2 Pathway for children (<16 years) with obstructive sleep disordered breathing

**Primary care assessment**

- Sleep disordered breathing ranges from simple snoring to obstructive sleep apnoea. Carefully assess (history and examination) children presenting with symptoms of snoring to distinguish between simple snoring and disruptive breathing patterns whilst asleep.

- Make note of nasal obstruction and size of tonsils.

- Carefully assess and document impact on development, behaviour and quality of life e.g. height and weight, hyperactivity, daytime somnolence.

- Consider asking parents to bring a video of their child sleeping.

- **Consider the role of obesity as a cause of sleep disordered breathing and referral to a weight management service**

- Children with simple snoring without symptoms or signs of apnoea are unlikely to benefit from adeno-tonsillectomy.

- In older children >6 years with mild/moderate symptoms of obstructive sleep disordered breathing consider a trial of nasal saline irrigation and or intranasal steroids for 6-8 weeks.

**Referral**

- If there are ongoing concerns about obstructive sleep disordered breathing refer to secondary care.

- Children with suspected severe apnoea need urgent specialist assessment.

**Secondary care**

- Reassessment of the patient's clinical history and examination and if available recording of child's sleep. Consider impact on quality of life, behaviour and development.

- Consultation with parent/carers about management options using shared decision making strategies and tools where appropriate.

- If there is clear obstructive sleep apnoea then discuss surgery.
• Children with simple snoring without symptoms or signs of apnoea are unlikely to benefit from adeno-tonsillectomy

• Where there is diagnostic uncertainty consider overnight pulse oximetry, ideally at home or in selected cases an overnight Polysomnogram to determine further management

• Consider allergy testing and appropriate treatment

• Children with moderate signs and symptoms consider active monitoring prior to a decision on surgery. These children should be followed-up in secondary care

• There is insufficient evidence at present to be able to recommend Tonsillotomy (Intracapsular tonsillectomy) versus Tonsillectomy

Surgical setting

• Within a surgical facility for children. Inpatient stay will be required for severe sleep apnoea or for children with significant comorbidities

• Younger children (criteria consensus statement) with severe disease should be managed in a facility with access to paediatric intensive care facilities

2. Procedures explorer for tonsillectomy

Users can access further procedure information based on the data available in the quality dashboard to see how individual providers are performing against the indicators. This will enable CCGs to start a conversation with providers who appear to be ‘outliers’ from the indicators of quality that have been selected.

The Procedures Explorer Tool is available via the Royal College of Surgeons website.

3. Quality dashboard for tonsillectomy

The quality dashboard provides an overview of activity commissioned by CCGs from the relevant pathways, and indicators of the quality of care provided by surgical units.

The quality dashboard is available via the Royal College of Surgeons website.
4. **Levers for implementation**

4.1 **Audit and peer review measures**

The following measures and standards are those expected at primary and secondary care. Evidence should be able to be made available to commissioners if requested.

<table>
<thead>
<tr>
<th>Measure</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary Care</strong></td>
<td></td>
</tr>
<tr>
<td>Documentation of symptoms</td>
<td>Significant symptoms should be documented prior to referral</td>
</tr>
<tr>
<td>Referral</td>
<td>Do not refer patients who do not fulfil criteria for referral unless specific exceptions apply</td>
</tr>
<tr>
<td>Patient information</td>
<td>Patients are signposted to appropriate information prior to referral</td>
</tr>
<tr>
<td><strong>Secondary Care</strong></td>
<td></td>
</tr>
<tr>
<td>Patient engagement and information</td>
<td>Evidence of patient's engagement in shared decision making process including signposting patients to appropriate patient information</td>
</tr>
<tr>
<td>Criteria for surgery</td>
<td>Evidence of appropriate documentation that patients fulfil criteria for surgery</td>
</tr>
<tr>
<td>Criteria for non-day case decisions</td>
<td>Effective facilitation of parent/carer support for young children remaining overnight in hospital</td>
</tr>
</tbody>
</table>
| Audit                       | Audit of :  
|                             | • Post-operative complications and morbidity                             |
|                             | • Appropriate peri and post-operative management                         |
|                             | (pain control, post-discharge information etc.)                           |

4.2 **Quality Specification/CQUIN**

<table>
<thead>
<tr>
<th>Measure</th>
<th>Description</th>
<th>Data specification (if required)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length of stay</strong></td>
<td>Provider demonstrates a mean LOS of &lt;2 days</td>
<td>Data available from HES</td>
</tr>
<tr>
<td><strong>Day Case Rates</strong></td>
<td>Provider demonstrates day case is the expectation</td>
<td>% achieving Best Practice Tariff</td>
</tr>
</tbody>
</table>
**Unplanned readmissions within 30 days**
Provider demonstrates low readmission rates within 30 days: up to 15% is acceptable for post-operative pain/nausea & vomiting and bleeding.
Data available from HES

## 5. Directory

### 5.1 Patient Information for tonsillectomy

<table>
<thead>
<tr>
<th>Name</th>
<th>Publisher</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENT-UK Patient Information leaflet on tonsillectomy</td>
<td>ENT-UK</td>
<td><a href="https://entuk.org/ent_patients/information_leaflets">https://entuk.org/ent_patients/information_leaflets</a></td>
</tr>
<tr>
<td>Tonsillitis</td>
<td>Patient.co.uk</td>
<td><a href="http://patient.info/doctor/tonsillitis-pro">http://patient.info/doctor/tonsillitis-pro</a></td>
</tr>
</tbody>
</table>

### 5.2 Clinician information for tonsillectomy

<table>
<thead>
<tr>
<th>Name</th>
<th>Publisher</th>
<th>Link</th>
</tr>
</thead>
</table>
### 6. Benefits and risks of implementing this guide

<table>
<thead>
<tr>
<th>Consideration</th>
<th>Benefit</th>
<th>Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Patient outcome</strong></td>
<td>Ensure tonsillectomy is only undertaken on patients with appropriate and significant symptoms</td>
<td>As guidelines are well defined, some patients who might otherwise have benefited from tonsillectomy will not have been offered the procedure (see section 1)</td>
</tr>
<tr>
<td><strong>Patient safety</strong></td>
<td>Patients receive appropriate information about their condition and treatment.</td>
<td>HES data indicate that as tonsillectomy rates have fallen in the UK there has been an annual increase in acute hospital admissions with tonsillitis and its complications.</td>
</tr>
<tr>
<td><strong>Overnight oximetry</strong></td>
<td>Significantly cheaper than overnight Polysomnography as an in-patient</td>
<td></td>
</tr>
<tr>
<td><strong>Patient experience</strong></td>
<td>Improved shared decision making with patients and family</td>
<td></td>
</tr>
<tr>
<td><strong>Equity of Access</strong></td>
<td>Improve access to effective procedures for those most likely to benefit</td>
<td>To deny access to some patients who might otherwise have benefitted from tonsillectomy</td>
</tr>
<tr>
<td><strong>Resource impact</strong></td>
<td>Reduce unnecessary referral and intervention</td>
<td>Increased activity in primary and secondary care in managing acute sore throats. Costs of potential increased surgical activity</td>
</tr>
</tbody>
</table>
7. Further information

7.1 Research recommendations

- Development of core outcome sets for common ENT conditions, including recurrent sore throat and sleep disordered breathing
- Development of quality indicators for tonsillectomy other than readmission rates
- RCT of tonsillectomy in adults with recurrent tonsillitis (In progress)
- Development of most clinical and cost effective peri and post-operative clinical protocols
- Systematic review evaluating tonsillectomy versus Tonsillotomy for sleep disordered breathing
- Systematic review evaluating coblation tonsillectomy versus conventional forms of tonsillectomy
- Research on clinically and cost effective diagnostic and therapeutic pathway for children with sleep disordered breathing
- Research in effective self-management by patients with recurrent sore throats/tonsillitis
- Research into most effective methods for practitioners having a shared evidence based knowledge

7.2 Evidence base


7.3 Guide development group for tonsillectomy

A commissioning guide development group was established to review and advise on the content of the commissioning guide. This group met once, with additional interaction taking place via email and teleconference.

<table>
<thead>
<tr>
<th>Name</th>
<th>Job Title/Role</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sean Carrie</td>
<td>Consultant ENT Surgeon (Chair)</td>
<td>ENT-UK</td>
</tr>
<tr>
<td>Anthony Narula</td>
<td>Consultant ENT Surgeon</td>
<td>ENT-UK</td>
</tr>
<tr>
<td>Jonathan Hobson</td>
<td>Consultant ENT Surgeon</td>
<td>ENT-UK</td>
</tr>
<tr>
<td>Martin Burton</td>
<td>Consultant ENT Surgeon, Cochrane ENT discussion group</td>
<td>ENT-UK</td>
</tr>
<tr>
<td>Anne Schilder</td>
<td>NIHR Research Professor and Professor of Paediatric Otorhinolaryngology</td>
<td>NIHR</td>
</tr>
<tr>
<td>Michael Vidal</td>
<td>Patient Representative</td>
<td>Patient Representative</td>
</tr>
<tr>
<td>Jill Morrison</td>
<td>Professor General Practitioner</td>
<td></td>
</tr>
<tr>
<td>Peter Robb</td>
<td>Consultant ENT Surgeon</td>
<td>ENT-UK</td>
</tr>
<tr>
<td>Philip Taylor</td>
<td>General Practitioner, Newcastle Gateshead CCG</td>
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</tr>
</tbody>
</table>

7.4 Funding statement

The development of this commissioning guidance has been funded by the following sources:

- The Royal College of Surgeons funded the costs of the literature searches and provided central support
- ENT-UK provided staff to support the guideline development and funding for meetings

7.5 Conflict of Interest Statement

Individuals involved in the development and formal peer review of commissioning guides are asked to complete a conflict of interest declaration. It is noted that declaring a conflict of interest does not imply that the individual has been influenced by his or her secondary interest. It is intended to make interests (financial or otherwise) more transparent and to allow others to have knowledge of the interest.

The following members declared interests: None