

Tonsillectomy

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Introduction

- One of the **most commonly performed procedures** in the US in children <15 yr
- entails **removing tonsil & capsule** by dissecting peritonsillar space .
- Two common indications **are sleep disorder breathing (SDB) & recurrent infections**
- Complications include **bleeding**, velopharyngeal insufficiency and dehydration
- widely performed as a **harmful traditional practice** in most parts of Ethiopia.



Outline

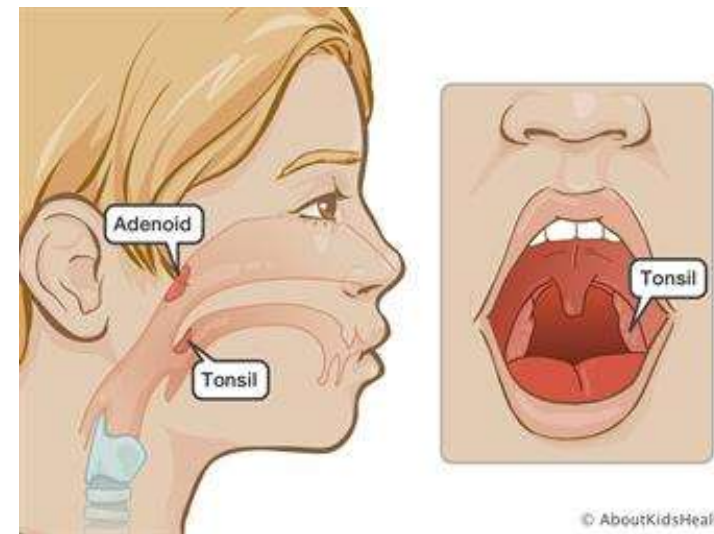
1. Anatomy
2. Indications
3. Technique
4. Postop care
5. Complications



1. Anatomy

part of *waldeyer's ring of lymphoid* (with tubal and lingual tonsils)

- **Palatine Tonsils** are found bilaterally behind the tongue
 - Demarcation from surrounding musculature by capsule
 - Peritonsillar space = b/n muscle and capsule
 - Between palatoglossus (ant pillar) and palatopharyngeal (post pillar) muscles
 - Glossopharyngeal nerve is deep to muscles
 - Artery (from ECA) – lingual, facial, ascending pharyngeal, internal maxillary
- **Adenoid** is behind the nose



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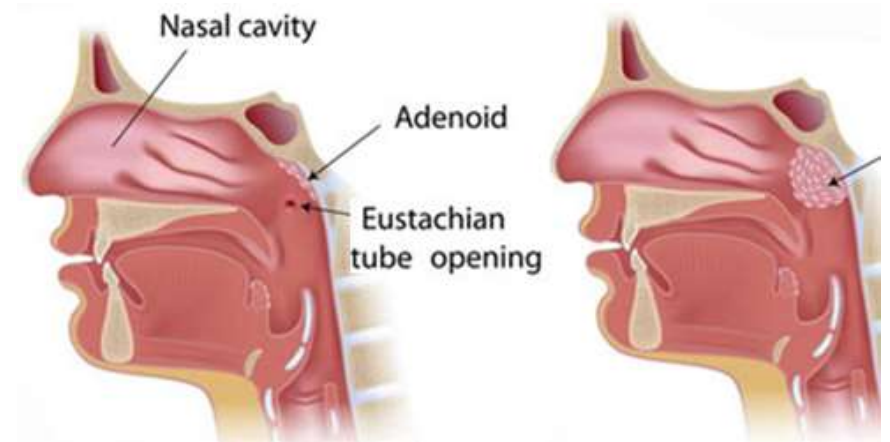
2. Indications: infection

- **Recurrent tonsillitis**
 - 7 episodes in the prior year
 - 5 episodes annually in the past 2 years
 - 3 episodes annually in the past 3 years.
 - *earlier intervention in peritonsillar abscess
- **Each infection should have documented**
 - Sore throat + one of the following
 - Fever >38.3 , cervical LAP, tonsillar exudate, positive GAS



2. Indications: enlargement

- **Difficulty Breathing / sleeping**
 - hyperactivity, daytime tiredness, snoring, apnea, restless sleeping, growth retardation, poor school performance, nocturnal enuresis
 - Polysomnography - size does not correlate to the severity of SDB
- **Difficulty swallowing / Difficulty of speech**
- **Asymmetric enlargement (Suspicion of malignancy)**



3. Technique

Usually last 45 min

- Under GA, tube taped at midline
- Rose's position –head extended by pillow below shoulder
- Crowe-Davis or Mclvor mouth gag is introduced
- Surgeon stands at the head of the patient



3. Technique: Tonsillectomy

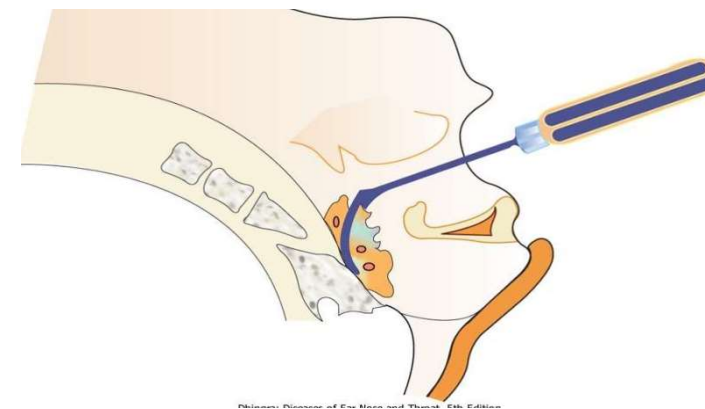
- Each tonsil is grasped with Alis forceps and medialized
- “Cold” = Incision made on memb at lateral side as it reflects from tonsil to ant pillar to dissect tonsil from peritonsillar tissue
- “hot” = using monopolar cautery (less bleeding but more pain)
- Gauze is placed in fossa and pressure is applied for few min



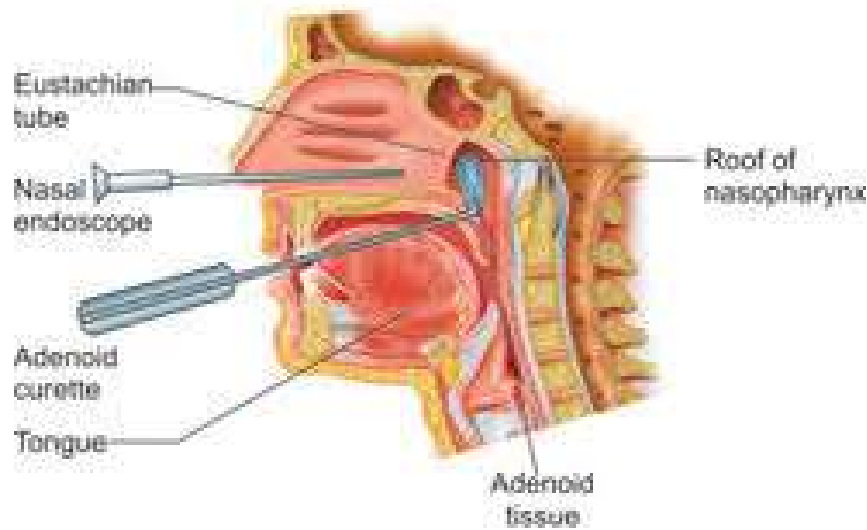
3. Technique : Adenoidectomy

concomitant adenoidectomy usually indicated for SDB

- digital palpation of nasopharynx to confirm diagnosis, assess size and push lateral adenoid toward midline
- Adenoid curette introduced until post border of nasal septum and is pressed backward to engage adenoid.
- Sweeping movement to shave off adenoid
- Hemostasis with gauze / cautery. Postnasal pack for 24 hr if persists



3. Technique : Adenoidectomy



- **Nasal endoscopy assistance** offers more precise surgery



4. Postop care

- **Diet** – cold milk/ ice-cream / ice cubes give relief from pain. Encourage plenty of fluids
- **Oral hygiene** - hot water gargle 3-4 a day. Mouth wash after every feed. Nasal saline drops
- **Analgesic** – acetaminophen/ibuprofen for pain in throat, neck, jaw and ears. May last 10-14 days
- **Antibiotic** - PO or injection for 1 week
- **Hospital stay** - Day care surgery but some may spend the night
- **Activity** – limited for 2 wks (school , rough play, contact sport, travel)



5. Complications

Immediate

- Bleeding, aspiration of blood
- Facial edema
- Injury to pillars, uvula, soft palate, tongue, teeth
- Glossopharyngeal injury (transient swelling can cause otalgia, altered taste)

Delayed

- Bleeding (2.8%)
- Infection
- Scarring of soft palate/nasopharynx
- Recurrence (Tonsillar remnants), Hypertrophy of lingual tonsil
- Velopharyngeal insufficiency (hyper nasal speech, nasal regurgitation)

