

ENT FOR PRIMARY CARE PHYCISIANS

COLLEGE OF OTORHINOLARYNGOLOGY AND HEAD AND NECK SURGEONS

SRI LANKA

2023

OBJECTIVES

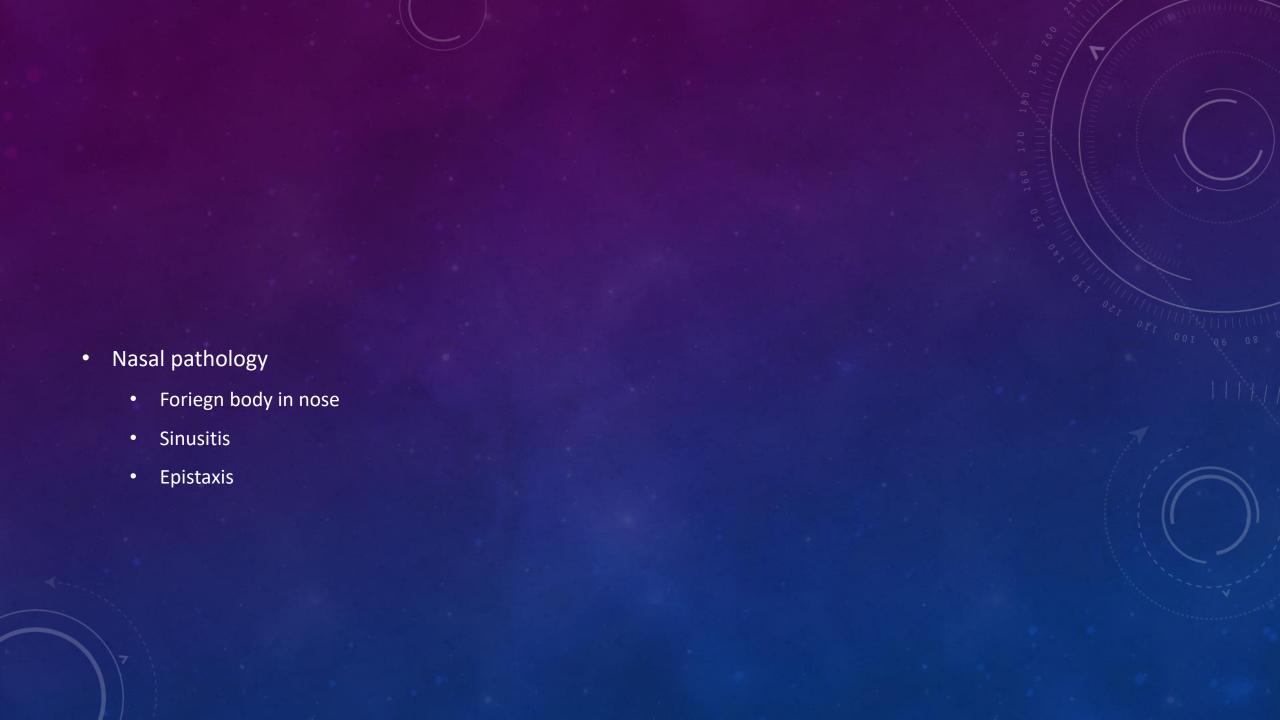
- To familiarise with with common ENT problems faced by primary care doctors
- Early identification of conditions
- Know what initial treatment can be offered
- Know when to refer to ENT
- Avoid missing a cancer patient

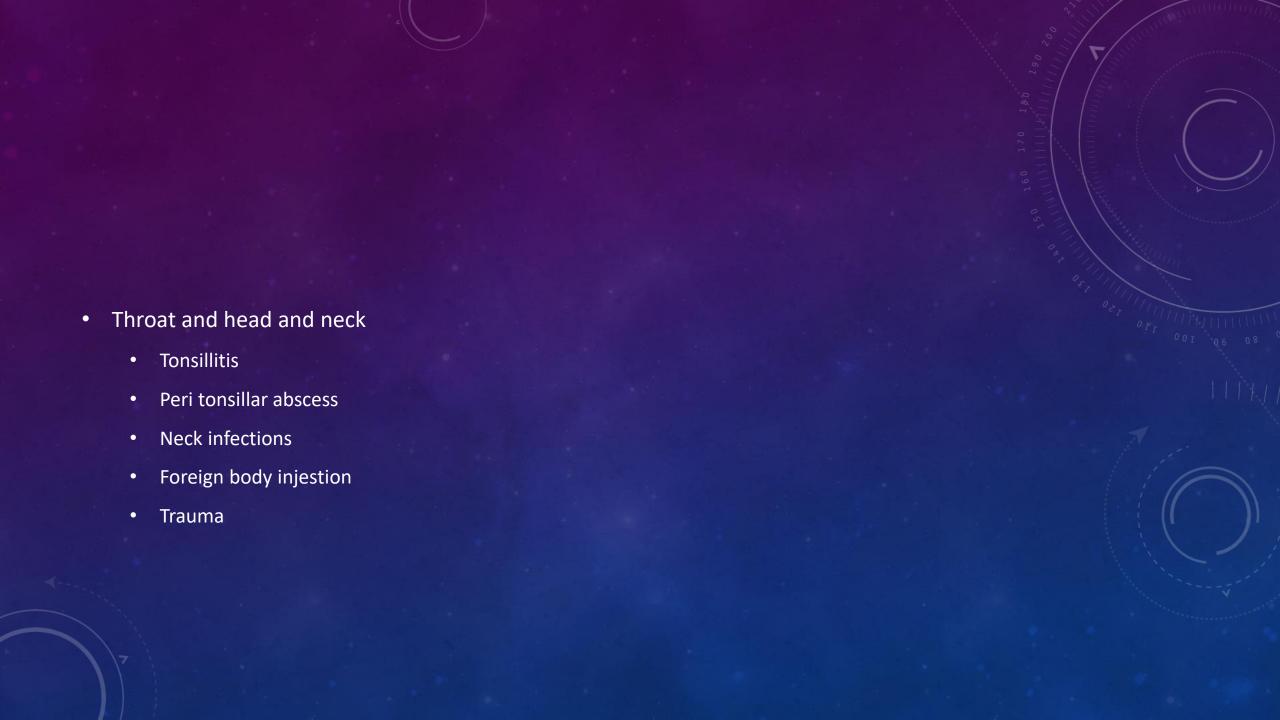
WHAT INSTRUMENTS DO WE NEED

- Otoscope
- Torch
- Tongue Depressor
- Thudicum speculum
- Jobson Horbe Probe
- Please note not all equipment may be available in a periferal setting and if proper visualisation is not possible- please seek ENT opinion.

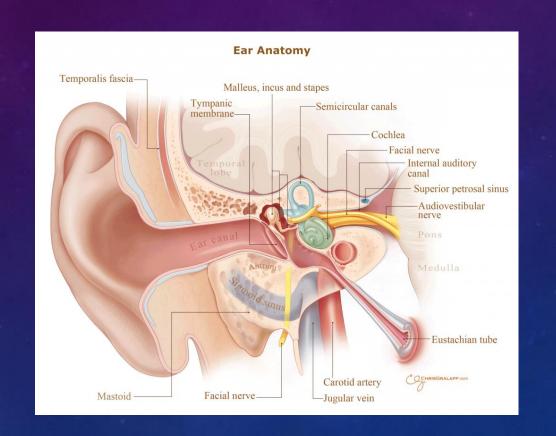
CONTENTS

- Ear Conditions
- Ear Discharge
- Wax in ear
- FB in ear
- Hearing loss
- Traumatic ear drum perforation
- Ear ache
- Otoscopic findings





ANATOMY

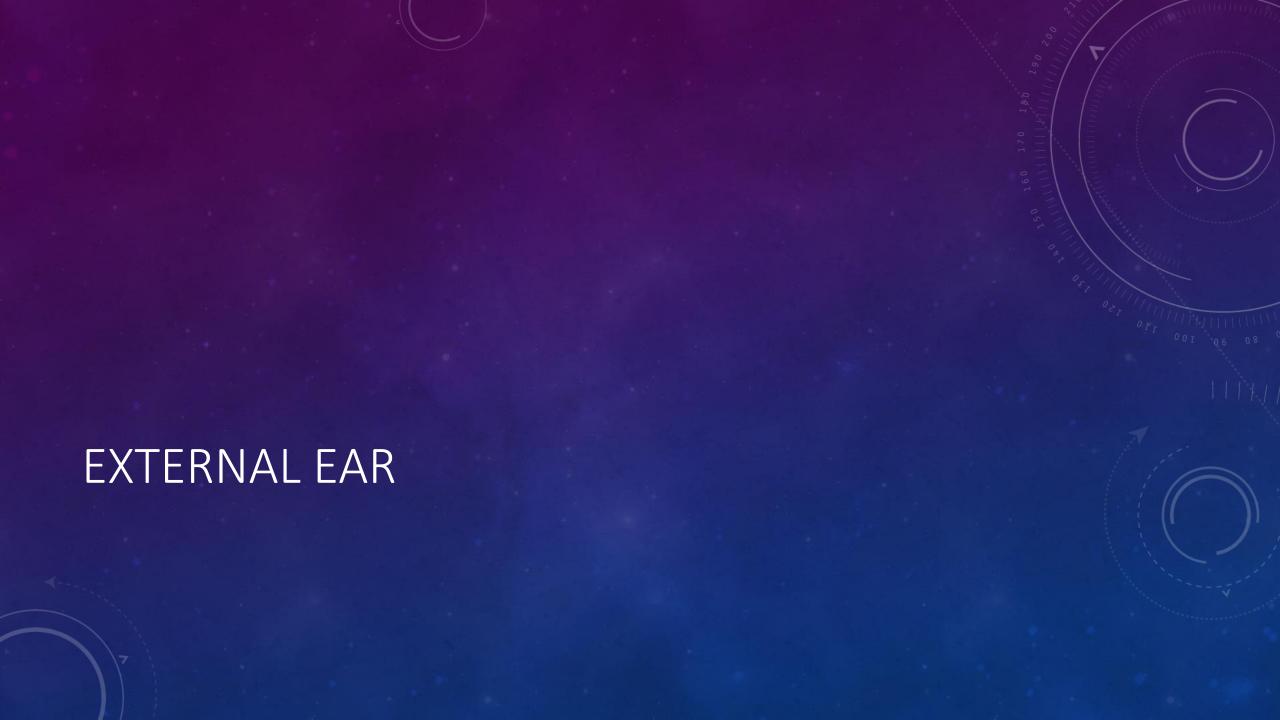


HEARING LOSS

- Often presents with gradual hearing loss or sudden hearing loss
- May be associated with ear discgarge, ear fullness, tinnitus, vertigo.
- Need to distinguish if its sudden onset sensorineuraal hearing loss as there is a very narrow therapeutic window.
- Examination of ear is important to rule out wax impaction, perforation or ear infection needs appropriate treatment

SUDDEN ONSET HEARING LOSS

- Examine ears.
- If no obvious pathilogy is seen please refer to Ent for urgent hearing assesment as treatment needs to be commenced within 72 hours for better prognosis.
- Any hearing loss occurred within 2-4 weeks period should be referred without delay



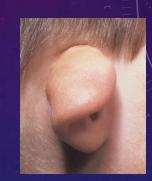
CONGENITAL DEFORMITIES



- Deformities:
 - Tags
 - Pre auricular pits and sinuses
 - Macrotia
 - Bat ear
 - Lop ear
 - Microtia anotia
 - Atresia of EAC









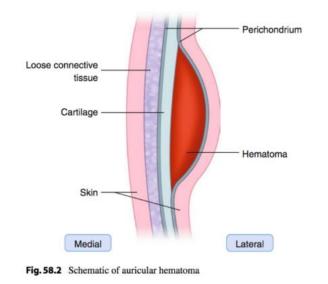


AURICULAR HAEMATOMA

- Caused by blunt injury to the auricle
- Common in contact sports boxing/ wrestling etc.

 Injury to a perichondrial blood vessel results in blood accumulation in the subperichondrial space, elevating the perichondrium off of the cartilage causing necrosis





AURICULAR HAEMATOMA TREATMENT

- Evacuation of the haematoma and application of a pressure dressing to prevent re-accumulation
- Wide incision with a scalpel is preferred.
- Incisions should be placed parallel to the helix in the scapha.
- After drainage and removal of clot and fibroneocartilage, bolster dressings should be applied with through and through sutures for 2 weeks.
- Preferably done in specialized Ent unit





IMPACTED WAX

- Excess collection of thick ear wax is known as impacted wax
- Symptoms
 - Diminished hearing often of sudden onset after "cleaning" the ears
 - Discomfort seldom complain of pain unless the wax is pressing on the drum
 - Tinnitus occasionally



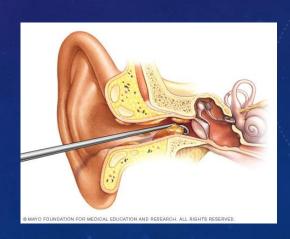
IMPORTANT TO REMEMBER

- Wax has an important role in protecting the ear canal
- The ear canal is a self-cleaning system
- do not to use cotton buds as wax is more likely to be pushed back against the eardrum and become impacted.
- Ear wax only needs to be removed if it causes symptoms or if a proper view of the eardrum is needed.

TREATMENT

- use of a ceruminolytic ear drop for 4 to 5 days
 - Sodium bicarbonate solution
 - Olive oil
- Syringing (only by trained staff)
- Removal with wax hook under direct vision

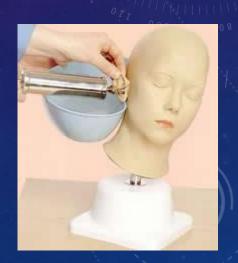




EAR IRRIGATION

- Should only be done by a trained medical
- DO NOT ATTEMPT if you don't have the expertise
- The lowest pressure possible should be used.
- It is best avoided if
 - the eardrum is known or suspected to be perforated
 - there is a history of mastoid surgery or chronic middle ear disease
 - If patient has unilateral deafness
 - A history of recurrent otitis externa or tinnitus









- Most commonly seen in children
- Prior to embarking upon removal, consider three aspects of the situation:
- 1. the nature of the foreign body;
- 2. the precise location of the foreign body;
- 3. the patient.





PRACTICAL TIPS

- Always consider transfering the patient to an ENT Department
- Risk of trauma to ear is high in blind removal
- Initial medication can be instilled to kill live insect prior to referral.
- Children often give us only one chance to remove....

TYPE OF FOREIGN BODY METHOD OF REMOVAL

- Living insects
- Irregular/graspable objects
- Organic/vegetable
- Button batteries
- Round, hard, smooth, non-graspable under anaesthetic

First kill with oil

Remove with crocodile forceps

Do not syringe

Do not syringe

Syringe/remove with wax hook/removal



TRAUMATIC PERFORATION

- Diagnosis
 - History of trauma
 - Ragged edges of the perforation
 - Blood stained
- Treatment
 - NO EAR DROPS
 - Keep ear dry
 - Antibiotics not needed unless infected
 - Refer to ENT for hearing assesment and medicolegal procedings
 - Need FU in 1 month





DEFINITION

- Otitis externa is a generalized condition of the skin of the external auditory canal that is characterized by
 - General oedema and erythema
 - itchy discomfort
 - ear discharge.

ACUTE LOCALISED OTITIS EXTERNA (FURUNCLE)

- begin as folliculitis /small abscess/furuncle
- Staphylococcus aureus
- Lateral cartilaginous (outer 1/3rd) portion of EAC
- Symptoms severe pain/discharge/hearing loss/aural fullness
- O/E tragal tenderness/oedematous EAC/enlarged, tender preauricular LN



TREATMENT

- Early cases without abscess formation
 - Systemic antibiotics
 - Topical antibiotics+corticosteroids
 - Analgesics/local hot fomentation/ear pack
- If abscess has formed
 - Incision & Drainage
 - Topical antibiotic ointment with/without oral antibiotics
- Recurrent furunculosis
 - R/o diabetes, staphylococcal skin infection, nasal vestibule harbouring staphylococci

ACUTE DIFFUSE OTITIS EXTERNA / SWIMMER'S EAR

- Commonest form of otitis externa
- Usual pathogens Pseudomonas aeruginosa, Staphylococcus aureus, Proteus mirabilis

Symptoms

O/E – ten



pedematous skin/ clear or purulent exudates



- Ear toilet
- Medicated wicks with Antibiotcs / steriods
- Antibiotics –Topical with/without corticosteroids / Broad spectrum systemic antibiotics
- Analgesics
- Avoid water entry/avoid using cotton buds/avoid digital manipulation of ear canal

FUNGAL OTITIS EXTERNA (OTOMYCOSIS)

- Fungal infection of EAC
- Aspergillus niger black headed filamented growth
- Aspergillus fumigatus brown
- Candida albicans white/creamy deposits
- Secondary fungal infection may be seen in pts using topical antibiotics for otitis externa/ middle ear suppuration
- Symptoms: pruritis/ pain or discomfort in ear/ watery discharge with musty odour/ ear block
- O/E: 6





fungal mass – 'wet piece of filter paper'

TREATMENT

- Ear toilet
- Topical Antifungal agents Beclomethasone/clotrimazole topical drops/ointments
 - Needs a prolonged course of treatment to avoid recurrences from remaning spores
- Ear must be kept dry
- Secondary bacterial infections antibiotic + steroid prepration
- Refer to ENT for ear toileting needs to be cleared under direct vision.



- Acute inflammation in middle ear
- < 3 weeks
- Often associated with a viral upper respiratory infection
- Most common reason for medical therapy for children younger than 5 years
- Recurrent otitis media:
 - At least 4 episodes/ year
 - At least 3 episodes/ 6 months (with adequate therapy) Acute otitis media

CAUSES

• Triggers:

Allergies

Upper respiratory tract infections

GER (especially children)

Adenoid hypertrophy

Dental

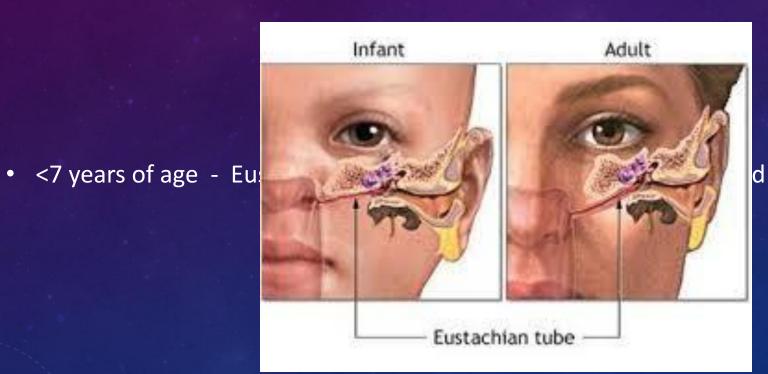
Other

Infections

Viral (30-70%) - RSV / Rhinovirus / Coronavirus / Influenza, parainfluenza

Bacterial (55%) - Streptococcus pneumoniae (44%) / Haemophilus catarrhalis (14%) /Gram negative enteric bacteria / S. Aureus

influenzae (41%) / Moraxella



d poorly functioning

Medline Plus- acute ear infections

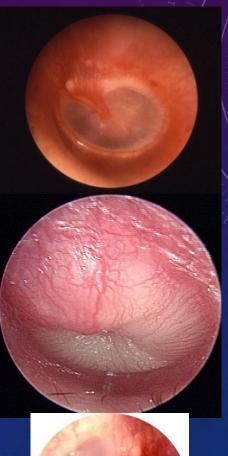
SIGNS AND SYMPTOMS

- Otalgia
- Fever
- Hearing loss (speech delay for children)
- Headache
- Nausea
- Cough
- Rhinitis
- Conjunctivitis



SIGNS AND SYMPTOMS

- Pneumatic otoscopy/otoscopy
 - Red or opaque eardrum
 - Retracted eardrum
 - Immobile or hypo-mobile eardrum
 - Presence of fluid behind eardrum (purulent, serous, mucoid)
 - Retraction pockets
 - Bullous Myringitis
- Physical Examination
 - Otorrhoea (in case of tympanostomy tube, perforation)
 - Mastoid tenderness
 - Anteriorly rotated pinna
 - Inspection or pharynx and nasal cavity





Otitis Media (Acute) By <u>Richard T. Miyamoto</u>, MD, MS, Indiana University School of Medicine

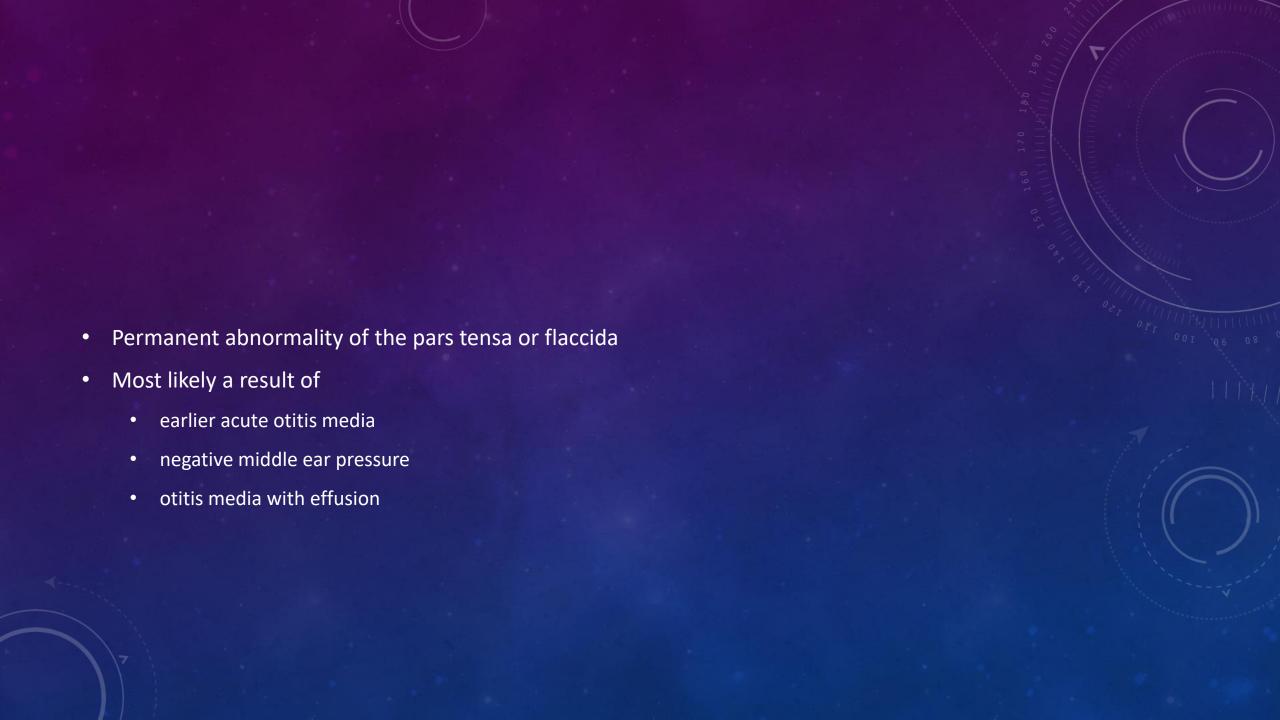
TREATMENT

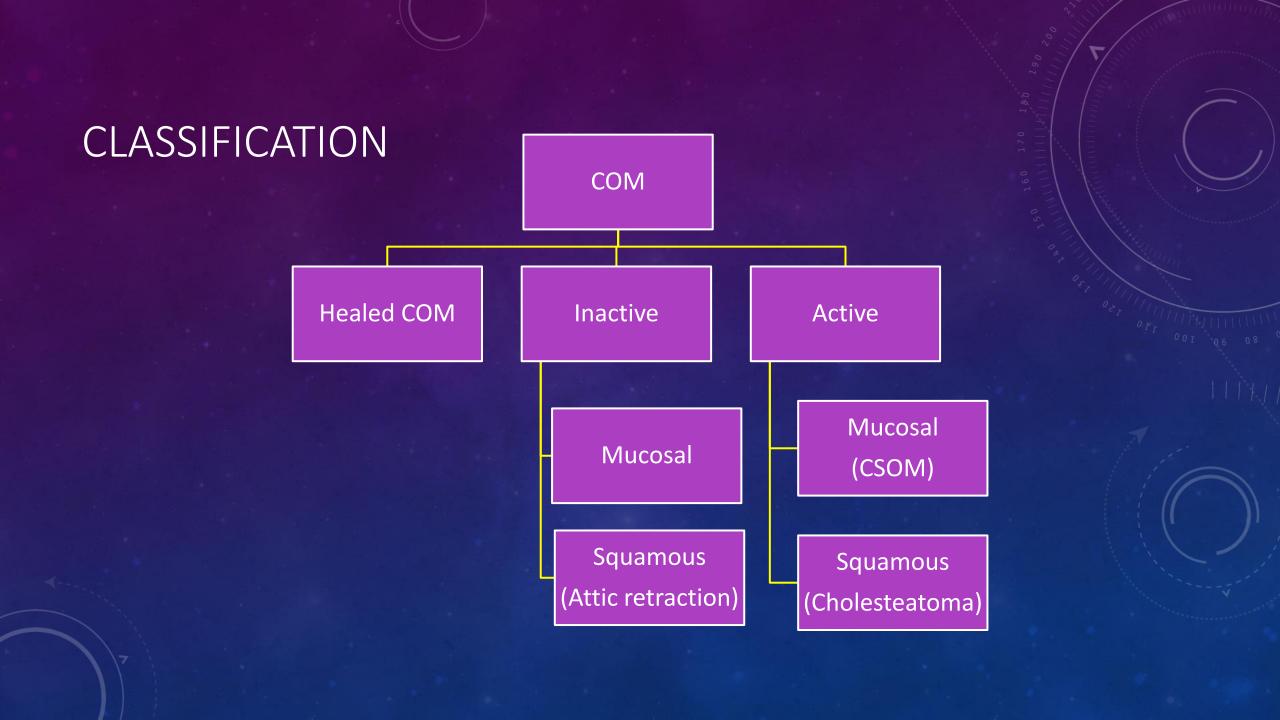
- Antibacterial therapy for:
 - Children of age <6months 2 6 months to 2 years with severe illness
 - Recurrent or bilateral AOM
 - Immunocompromised patients
 - Patients with a perforated tympanic membrane?
- Pain management (Ibuprofen, Diclofenac, Paracetamol)
- Decongestants and/or antihistamines, nasal steroids
- After 24-48h (48-72h) If no improvements
 - No antibiotics > antibiotics
 - Antibiotics > change to a different antibiotics
- Recurrent AOM treatment Tympanostomy / Myringotomy

COMPLICATIONS

- Similar to Chronic Otitis media but could be more aggressive
- Acute mastoiditis
- Abscess formation
- Facial paralysis
- Otitis media with effusion
- Persistent AOM
- Recurrent AOM
- Hearing loss
- Perforation of eardrum
- Lateral sinus thrombosis / Otitic hydrocephalus /Septic shock/Meningitis /Encephalitis /Extradural abscess /Labyrinthitis are rare
- REFER TO ENT DEPARTMENT



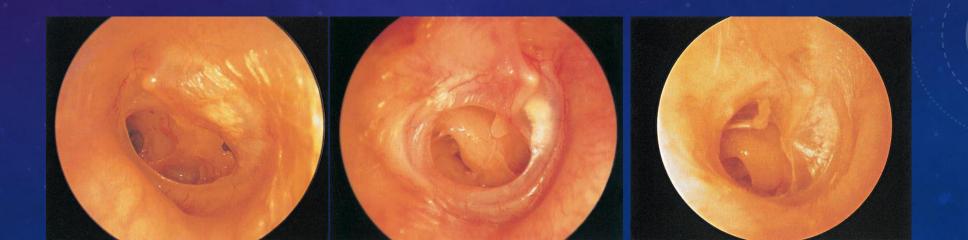






INACTIVE CHRONIC MUCOSAL OTITIS MEDIA

- Permanent perforation of the pars tensa
- The middle ear and mastoid mucosa is **not** inflamed.
- Perforation may be completely surrounded by a remnant of the pars tensa
- or a part of the perforation may extend to the fibrous annulus



INACTIVE CHRONIC MUCOSAL OTITIS MEDIA

- Often presents with a hearing impairment
- May be an incidental finding in older patients with a mixed impairment
- Needs referral to Ent department for hearing assessment and to consider management options
- Pure-tone audiometry assesses the magnitude of the conductive hearing impairment
- Treatment
 - Surgery Tympanoplasty/ Myringoplasty
 - Hearing aid devices
 - No treatment dry ear precautions

ACTIVE CHRONIC MUCOSAL OTITIS MEDIA

ACTIVE CHRONIC MUCOSAL OTITIS MEDIA

- Chronic inflammation within the mucosa of the middle ear and mastoid
 - usually perforation of pars tensa
 - varying degrees of oedema, submucosal fibrosis, hypervascularity and infiltration with lymphocytes, plasma cells and histiocytes
 - formation of granulation tissue.
 - production of mucopurulent discharge.
 - form 'aural polyps' that can protrude through defects of the tympanic membrane.
 - often associated with resorption of parts or all of the ossicular chain and bone erosion



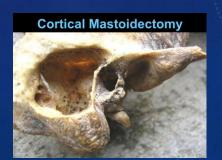




ACTIVE CHRONIC MUCOSAL OTITIS MEDIA MANAGEMENT

Medical

- Aural toilet swab for culture, dry mopping, suction clearance under microscope
- Antibiotic ear drops /steroids antiseptics important 1st line treatment
- Systemic antibiotics if acute exacerbation of the disease
- Surgical
 - Removal of septic foci tonsillectomy, adenoidectomy, sinus clearance
 - Myringoplasty / Tympanoplasty when converted to inactive stage
 - If associated mastoiditis cortical mastoidectomy
- Refer to ENT if initial treatment not responding





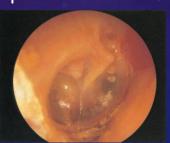
INACTIVE CHRONIC SQUAMOUS OTITIS MEDIA

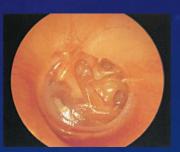
- Negative static middle ear pressure can result in retraction (atelectasis) of the tympanic membrane.
- A 'retraction pocket' invagination into the middle ear space of a part of the earc
- occur in the pars tensa or the pars flaccida.
- Most important is whether
 - the retraction is totally in view self cleansing
 - whether there are area out of view that might harbor cholesteatoma
 - clue if marginal be concerned ?active













ACTIVE CHRONIC SQUAMOUS OTITIS MEDIA (CHOLESTEATOMA)

- The hallmark of a cholesteatoma is its retention of keratinous debris
- Cholesteatomas are the end stage of (squamous epithelial) retractions of the pars tensa or pars flaccida
- not self-cleansing,
- retain epithelial debris
- elicit a secondary, inflammatory mucosal reaction.

ACTIVE CHRONIC SQUAMOUS OTITIS MEDIA (CHOLESTEATOMA)

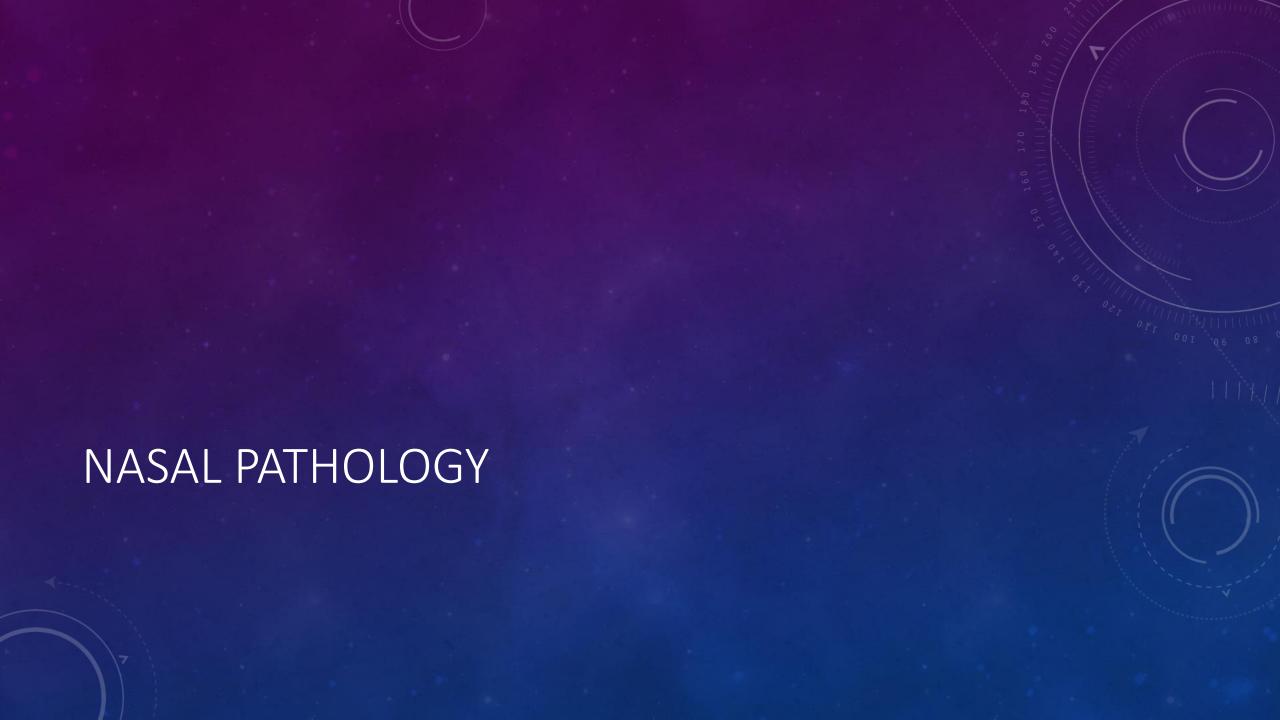
- Can be filled with keratin and be dry,
- Or active bacterial infection malodorous otorrhoea.
- Cholesteatomas are potentially dangerous
 - potential to incite resorption of bone,
 - leading to intra-temporal or intracranial complications.

ACTIVE CHRONIC SQUAMOUS OTITIS MEDIA

- Presentation
 - Foul smelling otorrhoea
 - Hearing impairment
 - Crust over the attic often mistaken as wax
- Examination under microscope or using an oto-endoscope
- Investigations:
 - PTA
 - CT temporal bone
 - to study anatomy and extent of disease
 - complications

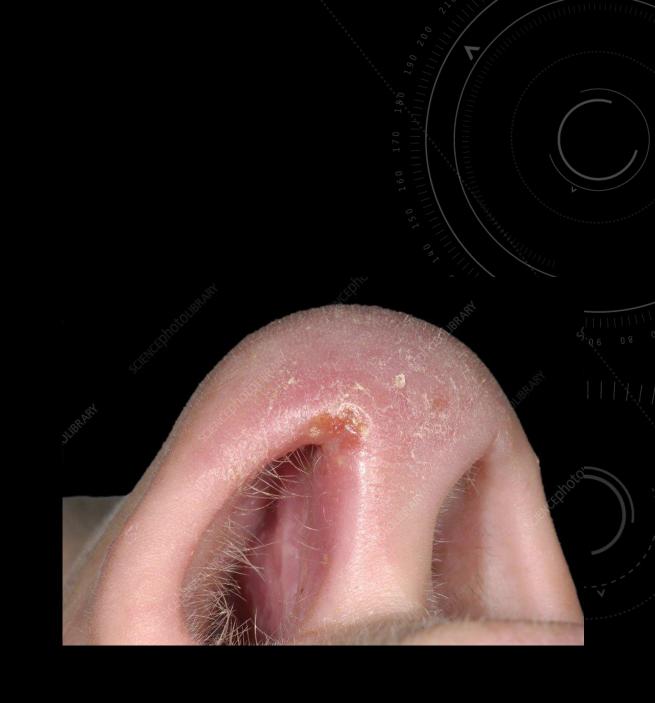
ACTIVE CHRONIC SQUAMOUS OTITIS MEDIA MANAGEMENT

- The aims of management to relieve the patient's symptoms and to minimize the risks of complications of the disease.
- Surgical removal is the only effective treatment for cholesteatoma.
- Surgery Mastoidectomy
 - Open cavity canal wall down mastoidectomy
 - Close cavity Combined approach mastoidectomy
- If identified please refer to ENT early.
- Antibiotic treatment alone is NOT effective



NASAL VESTIBULITIS

- Staphylococcal infection of the nasal hair follicles
- Involes Danger area of the face
- Extremely painful
- Treatment
- Needs referral to Ent for admission
- IV antibiotics
- Analgescics
- Topical antibiotic cream



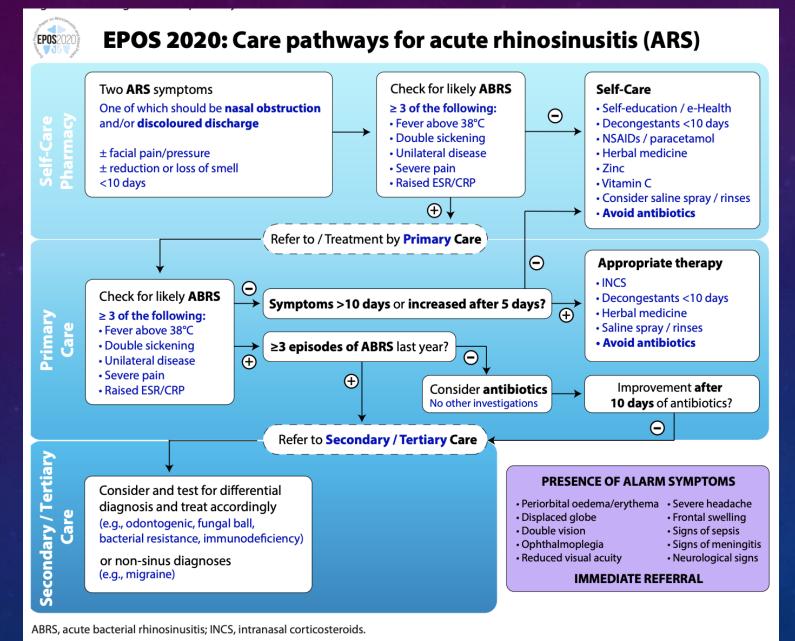
INTRANASAL POLYPS

- Differentiate hypertrophic inferior turbinates from intranasal polyps
- Allergic polyps are usually bilateral, multiple and pale
- If Unilateral polyp early referral to ENT

SINUSITIS

- Acute Rhinosinusitis
- Chronic Rhinosinusitis(with/without polyposis) in adults and children
- Please refere next slides for primary care advise as per EPOS 2020 guidelines
- INCS(intranasal corticosteroids) when prescribed long term-consider mometasone or fluticasone fuorate due to less side effects and systemic absorption.
- Normal saline/ salt water nasal doushing is recommended

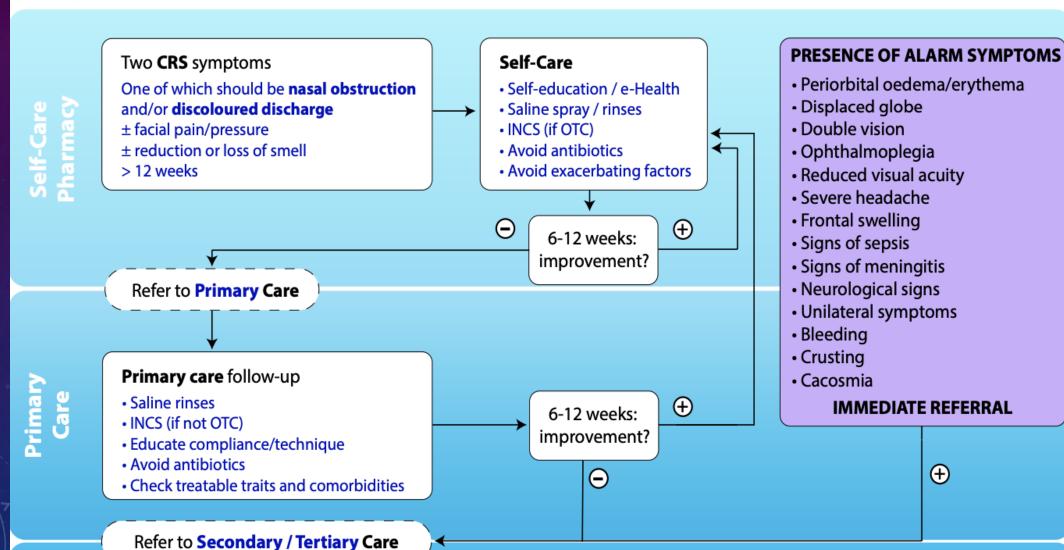
ACUTE RHINOSINUSITIS



CHRONIC RHINOSINUSITIS

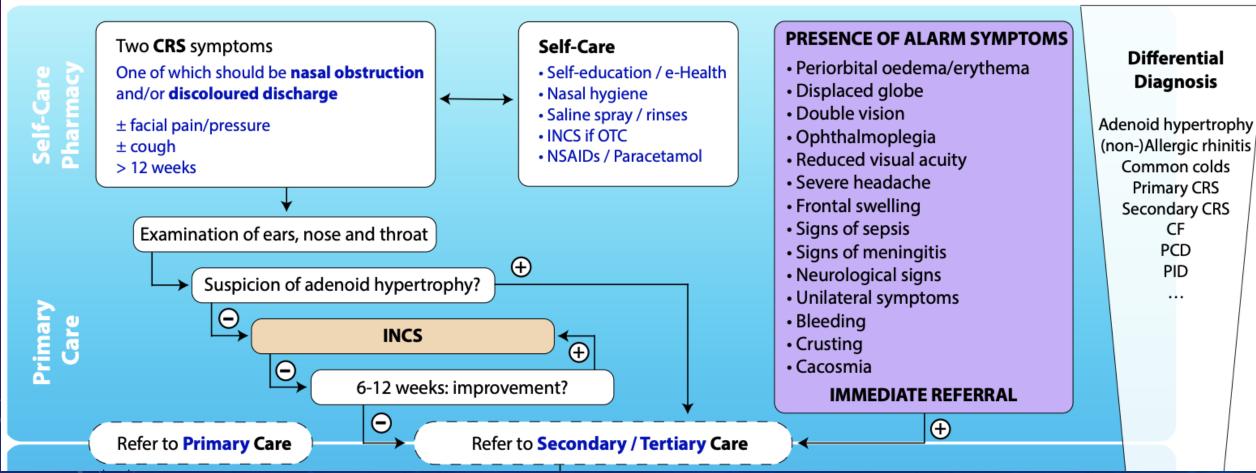


EPOS 2020: Care pathways for CRS





EPOS 2020: Care pathways for Paediatric CRS



ALLERGIC RHINITIS

- Paroxysmal sneezing/ watery rhinorrhoea, nasal itching and stuffiness
- Seasonal / Perennial
- Genatically predisposed oftern associated with other atpic manifestations- BA, nasal polyps
- Treatment
 - Avoid allergen
 - INCS(intranasal corticosteroids)/ Antihistamine sprays
 - Oral Antihistamines (Cerizine/Fexofenadine/Loratidine)
 - Oral anti leukotrines 9 Monteleukast)
- Avoid topical decongestants cause rhinitis medicamentosa

EMERGENCY MANAGEMENT OF EPISTAXIS

- First aid Sit the patient UPRIGHT and pinch the nose for 10 mins
- If bleeding persists
 - Anterior nasal bleeds nasal pack with vaseline /ribbon gauze
 - Posterior bleeding insert foley catheter in nasopharynx
 - Transfer to ENT
- In elderly
 - Check BP, elicit medication history(warfarin, anti platelets etc)
 - Restart antihypertensives if stopped
- Minor bleeds/ if stopped spontaneously
 - Decongestants drops/ antihistamines
 - Topical antibiotics to Little's area (especially in children)

NASAL FOREIGN BODIES

- Needs to be removed under direct vision
- Do not push the forign body further into the nasopharynx
- Do not attmpt to remove FB from children as they may give us only one chance.
- May need sedation or restraining children
- Button battery in the nasal cavity is a surgical emergency





Acute and chronic infections of phary

Neck space inf



Tonsillitis



significant causative agents:

- beta-haemolytic streptococci (groups A, C and G)
- adenoviruses
- Epstein-Barr virus

other causative agents:

various bacteria and viruses which are rare and with little significance on treatment

Complications

Chronic tonsillitis with recurrent acute attacks

Peritonsillar abscess (quinsy)

Parapharyngeal abscess

Cervical abscess due to suppuration of jugulodigastric lymph nodes.

Acute otitis media

Rheumatic fever Often seen in association with tonsillitis due to Group A beta-haemolytic Streptococci.

Acute golomerulonephritis

Subacute bacterial endocarditis in a patient with valvular heart disease streptococcus viridans infection.

TREATMENT

- Hydration and rest
- Analgesics
- Antimicrobial therapy. Most of the infections are due to Streptococcus and penicillin is the drug of choice.
- Patients allergic to penicillin can be treated with Clarythromycin.
- Antibiotics should be continued for 5–10 days.
- Salt water gargles
- Steroids?



Self-care

- Consider paracetamol for pain or fever, or if preferred and suitable, ibuprofen
- Drink adequate fluids
- Some evidence that medicated lozenges can help reduce pain in adults
- · No evidence was found for non-medicated lozenges. mouthwashes, or local anaesthetic mouth spray on its own



Evidence on antibiotics

- Antibiotics make little difference to how long symptoms last or the number of people whose symptoms improve
- Withholding antibiotics is unlikely to lead to complications
- Possible adverse effects include diarrhoea and nausea



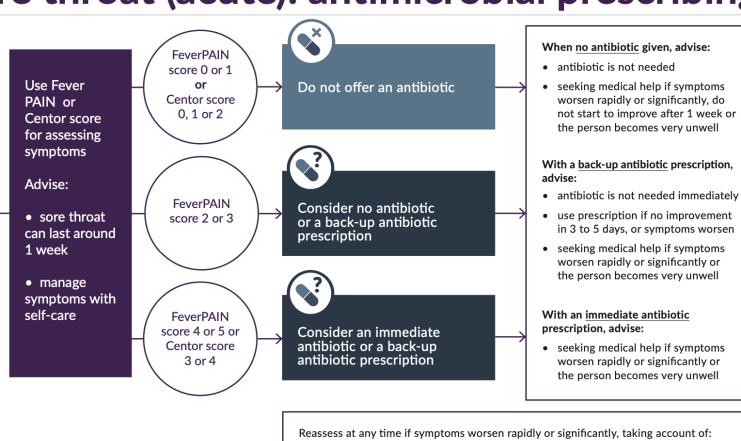
FeverPAIN score

 Fever, Purulence, Attend within 3 days or less, Severely Inflamed tonsils, No cough or coryza 1 point for each



Centor score

Tonsillar exudate. Tender anterior cervical lymphadenopathy or lymphadenitis, History of fever (>38°C), No cough 1 point for each



Reassess at any time if symptoms worsen rapidly or significantly, taking account of:

- other possible diagnoses
- any symptoms or signs suggesting a more serious illness or condition
- previous antibiotic use, which may lead to resistant organisms

If the person:

Acute sore throat

is systemically very unwell, or

has symptoms and signs of a more serious illness or condition, or

> has high risk of complications



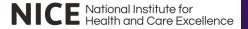
Offer an immediate antibiotic prescription



Refer to hospital if:

- severe systemic infection, or
- severe complications

Sore throat (acute): antimicrobial prescribing NICE National Institute for Health and Care Excellence



Choice of antibiotic: adults aged 18 years and over

Antibiotic ¹	Dosage and course length for adults
First choice	
Phenoxymethylpenicillin	500 mg four times a day or 1000 mg twice a day for 5 to 10 days
	Five days of phenoxymethylpenicillin may be enough for symptomatic cure, but a 10-day course may increase the chance of microbiological cure
Alternative first choice for penicillin allergy or intolerance (for people who are not pregnant)	
Clarithromycin	250 mg to 500 mg twice a day for 5 days
Alternative first choice for penicillin allergy in pregnancy	
Erythromycin	250 mg to 500 mg four times a day or 500 mg to 1000 mg twice a day for 5 days
	Erythromycin is preferred if a macrolide is needed in pregnancy, for example, if there is true penicillin allergy and the benefits of antibiotic treatment outweigh the harms. See the Medicines and Healthcare products Regulatory Agency (MHRA) Public Assessment Report on the safety of macrolide antibiotics in pregnancy
¹ See the <u>BNF</u> for appropriate unimpairment, renal impairment,	use and dosing in specific populations, for example, hepatic pregnancy and breast-feeding.

Choice of antibiotic: children and young people under 18 years

Antibiotic ¹	Dosage and course length for children and young people ²
First choice	
Phenoxymethylpenicillin	1 to 11 months: 62.5 mg four times a day or 125 mg twice a day for 5 to 10 days 1 to 5 years: 125 mg four times a day or 250 mg twice a day for 5 to 10 days 6 to 11 years: 250 mg four times a day or 500 mg twice a day for 5 to 10 days 12 to 17 years: 500 mg four times a day or 1000 mg twice a day for 5 to 10 days Five days of phenoxymethylpenicillin may be enough for symptomatic cure, but a 10-day course may increase the chance of microbiological cure
Alternative first choice for	penicillin allergy or intolerance (for people who are not pregnant)
Clarithromycin	1 month to 11 years: Under 8 kg: 7.5 mg/kg twice a day for 5 days 8 to 11 kg: 62.5 mg twice a day for 5 days 12 to 19 kg: 125 mg twice a day for 5 days 20 to 29 kg: 187.5 mg twice a day for 5 days 30 to 40 kg: 250 mg twice a day for 5 days or 12 to 17 years: 250 mg to 500 mg twice a day for 5 days
Alternative first choice for	penicillin allergy in pregnancy
Erythromycin	8 to 17 years: 250 mg to 500 mg four times a day or 500 mg to 1000 mg twice a day for 5 days Erythromycin is preferred if a macrolide is needed in pregnancy, for example, if there is true penicillin allergy and the benefits of antibiotic treatment outweigh the harms. See the Medicines and Healthcare products Regulatory Agency (MHRA) Public Assessment Report on the safety of macrolide antibiotics in pregnancy

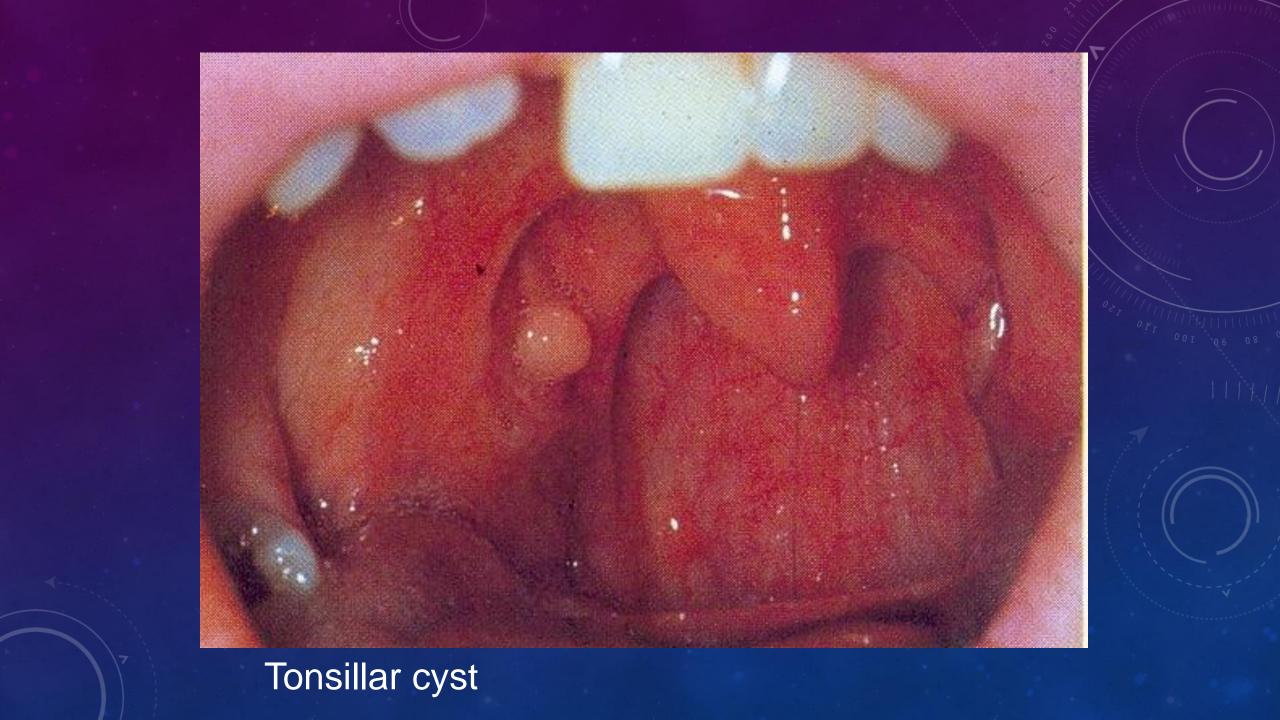
When exercising their judgement, professionals and practitioners are expected to take this

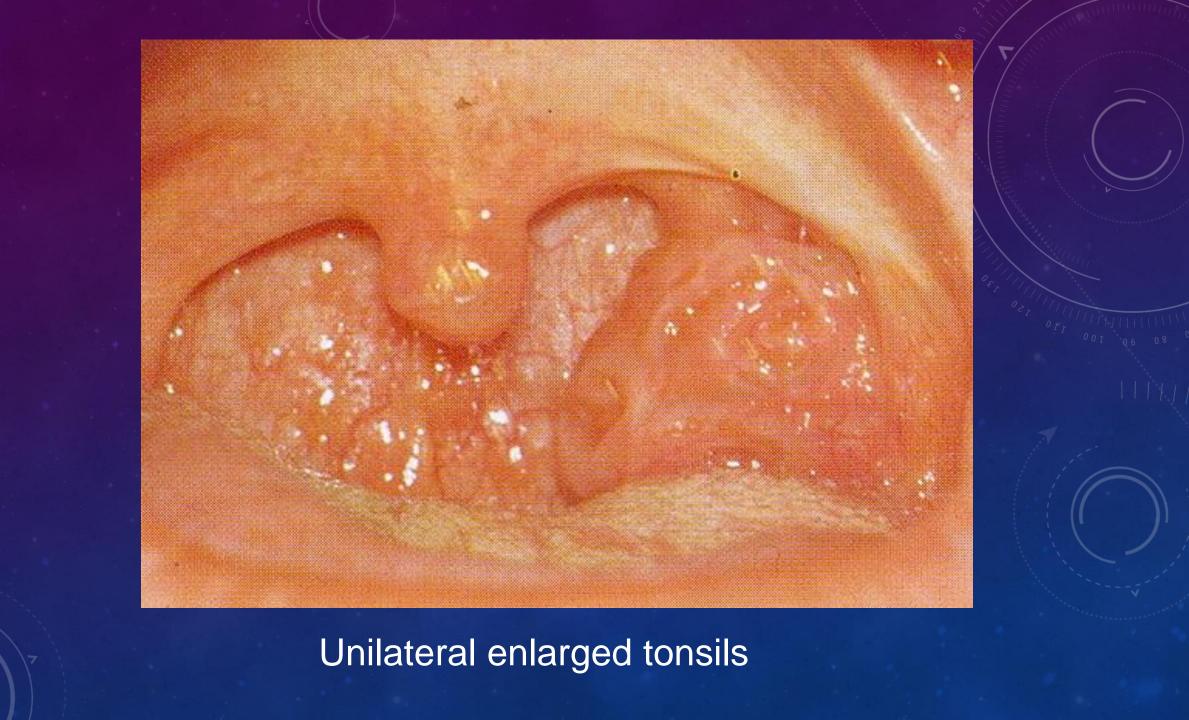
WHEN TO REFER FOR TONSILLECTOMY

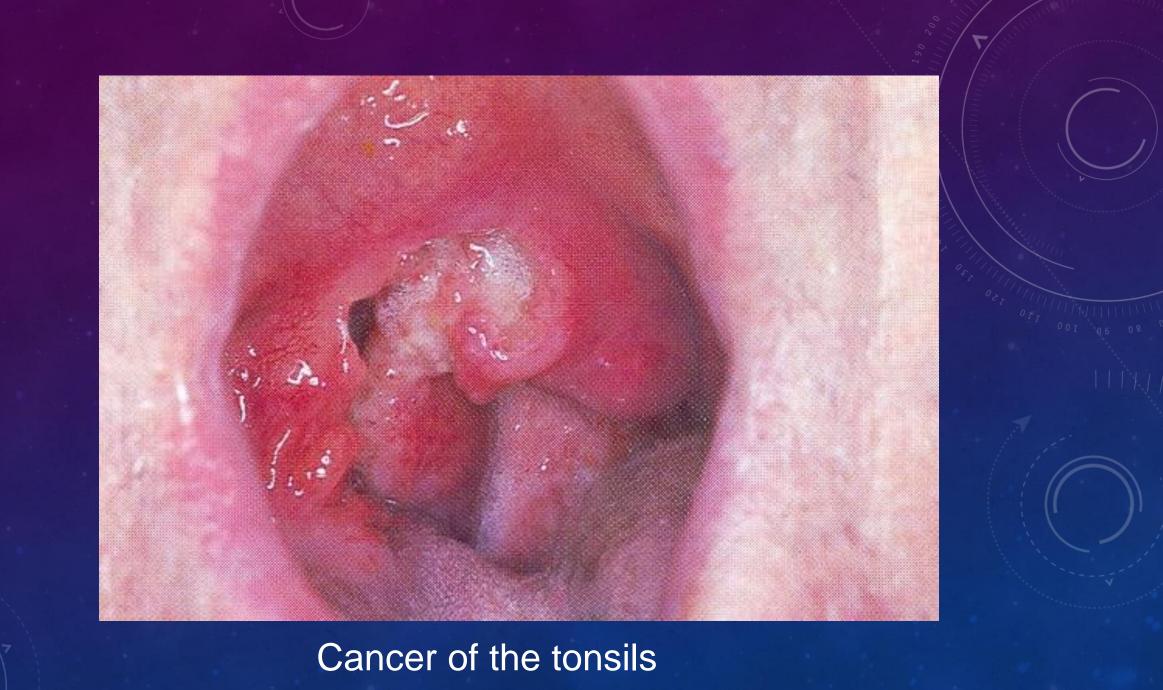
- Recurrent infections: 3 per year for 3 years, 5 per year for 2 years, 7 or more in 1 year, or greater than 2 weeks of school or work missed in 1 year
- Hypertrophy causing upper airway obstruction (sleep disordered breathing or frank sleep apnea) or causing deglutition problems
- Peritonsillar abscess- 2nd
- Suspicion of malignancy, either unilateral enlarged or search for unknown primary
- Recurrent tonsillitis causing febrile seizures
- Diphtheria carrier
- Treatment of early-stage cancer (often performed with robotic assistance, TORS)



Enlarged tonsils





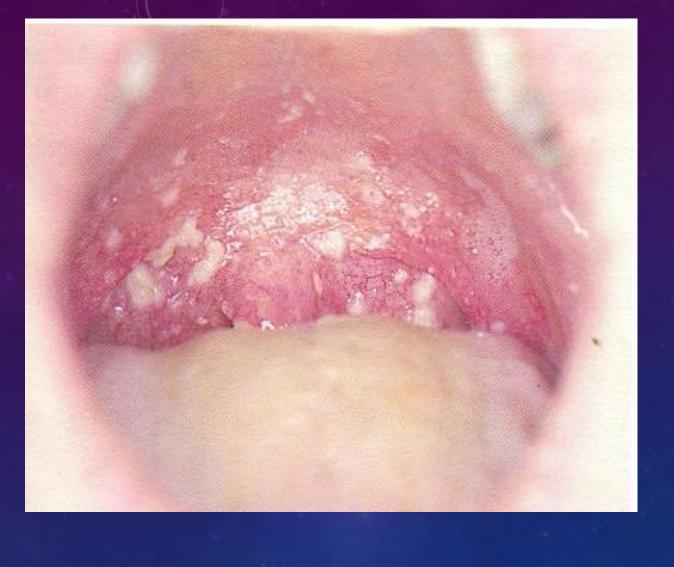


NEOPLASTIC

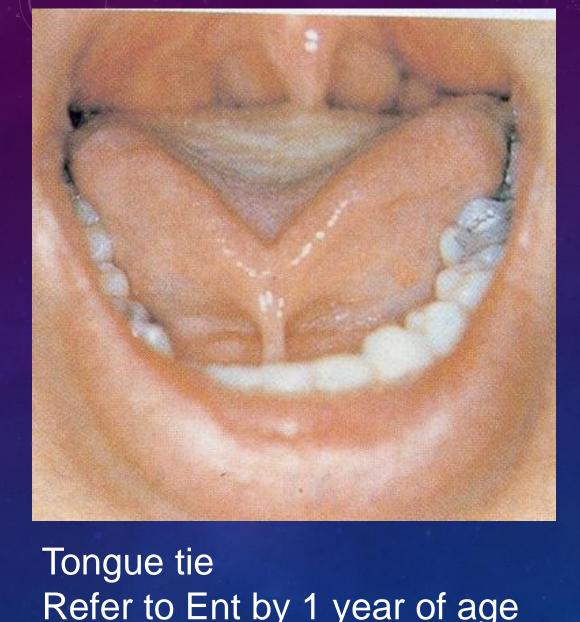
- Benign tumours
- Malignant tumours



- In the oral cavity, most tumours are malignant and of these 95% are squamous cell carcinomas (SCCs).
- The patient may present with a lump in the mouth or with an ulcer that may result in odynophagia. Oral cavity Ca is often identified on examination.
- Dysphagia can be caused by tongue fixation.
- Early referral to ENT needed.



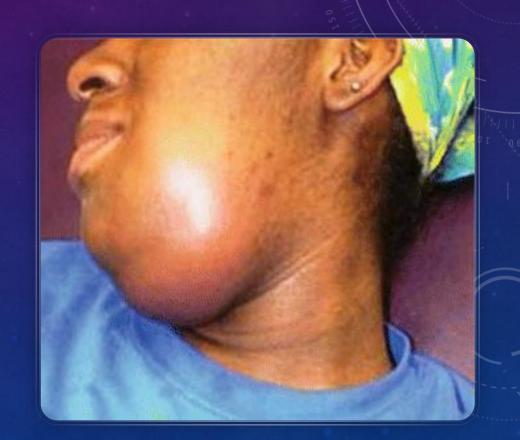
Oral thrush - Candidiasis Treatment - Nystatin



Refer to Ent by 1 year of age

LUDWIG'S ANGINA

- Infection of submandibular space
- Commonly ofllowing dental infections
- Life threatening
- Needs urgent transfer to an ENT / OMF unit
- Systemic antibiotics and steroids
- Incision and drainage of abscess.
- Tracheostomy, if airway is endangered.



PERITONSILLAR ABSCESS (QUINSY)

 collection of pus in the peritonsillar space which lies between the capsule of tonsil and the superior constrictor muscle.

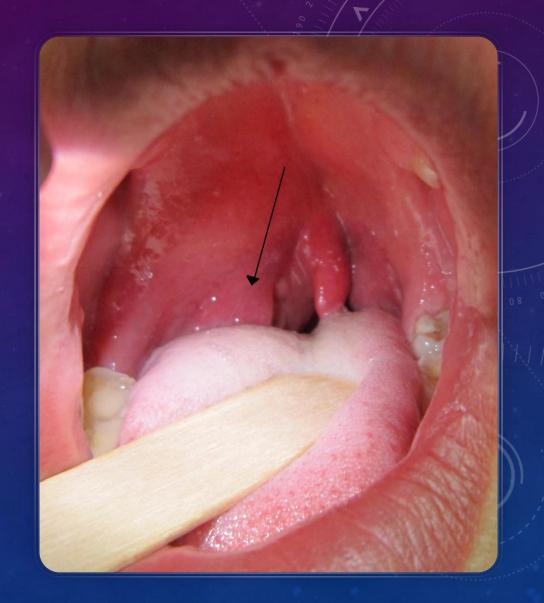
CLINICAL FEATURES

- Mostly affects adults
- Unilateral though occasionally bilateral abscesses are recorded. (A) severe pain in throat. Usually unilateral.
- Odynophagia- cannot even swallow his own saliva which dribbles
- "Hot potato voice."
- Foul breath due to sepsis in the oral cavity and poor hygiene.
- Ipsilateral earache. This is referred pain via CN IX which supplies both the tonsil and the ear.
- Trismus due to spasm of pterygoid muscles which are in close proximity to the superior constrictor.

PERITONSILLAR ABSCESS (QUINSY)

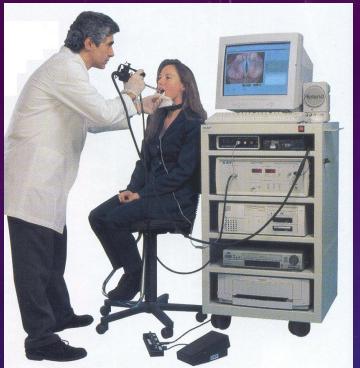
- EXAMINATION
- Uvula is swollen and oedematous and pushed to the opposite side.
- Bulging of the soft palate and anterior pillar above the tonsil.
- Torticollis- Patient keeps the neck tilted to the side of abscess.

• Refer to Ent urgently for admission

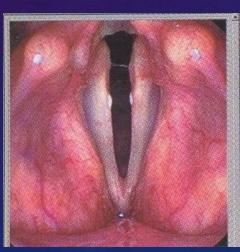


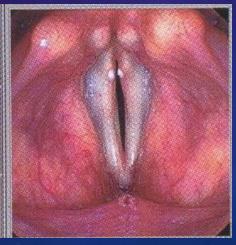
HOARSENESS OF VOICE

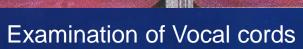
- Many etiologies
- Common causes due to upper respiratory tract infections
- Any persistant hoarsness more than 3 weeks should be refered to Ent to rule oout sinister pathology









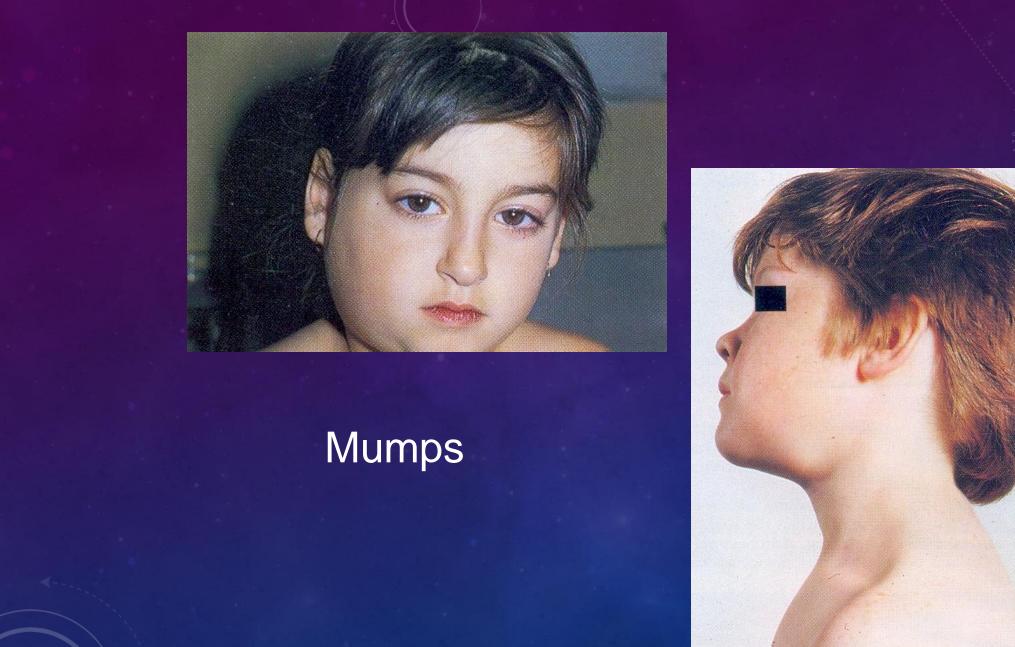




Diseases of the salivary glands

MUMPS (VIRAL PAROTITIS)

- Complications
 - Orchitis . Sterility following mumps is rare.
 - Oophritis
 - Pancreatitis
 - Aseptic meningitis or meningoencephalitis
 - Unilateral sensorineural hearing loss can occur due to involvement of the labyrinth.
- Management
 - hydration, rest, analgesics and cold or hot compresses over the parotid to relieve pain. Food which encourages salivary flow should be avoided as they cause pain





ACUTE SUPPURATIVE PAROTITIS

- In elderly, debilitated and dehydrated patients.
- Staphylococcus aureus
- Management
 - Antibiotics- Co-amoxyclav
 - Hydration
 - Measures to promote salivary flow
 - Attention to oral hygiene
 - Surgical drainage

FOREIGN BODY IN THE PHARYNX OR OESOPHAGUS



- Most common traumatic cause of dysphagia.
- It is important from the history to determine whether it is a sharp foreign body or a soft food bolus obstruction.
- A variety of foreign bodies are ingested by children and patients with learning difficulties, the most common being coins.
- History of Button Battery ingestion is a surgical emergency
- The size and shape of the foreign body will dictate where it lodges
- Refer the patient urgently to ENT

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