



*ENT Update for GPs

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*AOM/OME - still the most common reason for ENT referral

* Definition:

- * Although considered a continuum of disease, *Otitis Media* can be sub-classified as:
- 1. Acute Otitis Media (AOM): Middle Ear Effusion WITH signs and Symptoms of Acute Inflammation < 3/52 duration (i.e. previously normal ear)
 - * Acute Suppurative Otitis Media (ASOM): as above.... Caused by an infective organism.
 - * Recurrent AOM: ≥ 3 AOMs in a 6/12 period
- 2. Chronic Suppurative Otitis Media (CSOM): as above lasting > 3/12
- 3. Otitis Media with Effusion (OME): Middle Ear Effusion WITHOUT signs or symptoms of Acute Inflammation



- * History / Examination / Investigation: No Update
- * Treatment:
 - * Impact of *Pneumoccocal Vaccine*
 - * Aim of Vaccine: to **\P** Childhood AOM incidence
 - * Impact of Vaccine: USA Experience PCV7 introduced 2000:
 - * Overall:
 - * Marked ** in Serious Disease has occurred with use of newer pneumococcal Vaccines
 - * Only SMALL Relative Risk ♥ of 7.8% in AOM
 - * 24% \Psi in Treatment Failures and Persistent AOM
 - * Disease Specific
 - * ME Cultures:
 - * WE culture of S. pneumoniae
 - ↑ ME culture of Non-Vaccine Serotypes of S. pneumonia
 - * ME Culture of *Haemophilus Influenzae*
 - * No Change in Penicillin non-susceptible strains in Vaccine vs Non-vaccine serotypes
 - * NP Carriage Rates:
 - * **VStrep. Pneumonia Vaccine Serotype** carriage rate

 - * ? Antibiotic-resistant strains



* Treatment of AOM:

- 1. Antibiotics:
 - i. 1st Line:
 - * Amoxicillin 45mg/kg/day
 - * Pencillin Hyper-sensitivity: Cefaclor 10mg/kg, o, tds
 - ii. 2nd Line:
 - * Amoxicillin 80-90 mg/Kg/day (high dose)
 - * higher dose overcomes the *Penicillin Binding Protein* resistance of *S. pneumonia*
 - * Amoxicillin + Clavulanate 22.5 + 3.2 mg/kg, o,tds
 - * Clavulanic acid overcomes the B-lactamase resistance of H. influenzae or M. catarrhalis
 - iii. 3rd Line:
 - * Ceftriaxone 50-75mg/kg/day, IV in 1-2 doses
 - * Clindamycin 10-30mg/kg/day o in q8h doses
- * Duration: 5 10 days
 - * 10 days:
 - * Fewer early treatment failures with 10 day course,
 - * But increased expense and ? resistance



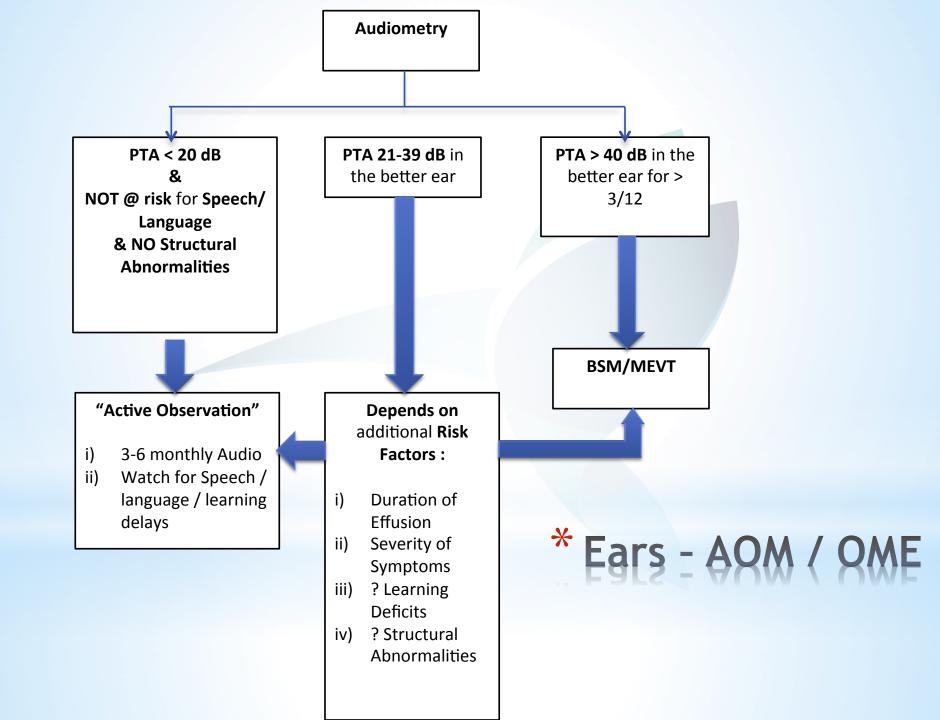
*Treatment:

- 2. Analgaesia
- 3. Decongestants /Anti-histamines Not recommended as no evidence of benefit
- **4. Steroids -** Not recommended as equivocal evidence

*Ears - AQM / QME

- *Indications for Grommets
 - 1. AOM with Complications
 - 2. AOM with cranio-facial abnormalities
 - 3. ROM
 - i. \geq 3 episodes in 6/12
 - ii. ≥ 4 episodes in 12/12
 - 4. OME see next slide
 - 5. (patients requiring Hyperbaric O2 therapy)
 - Chronic Eustachian Tube Dysfunction / Retraction pockets

*Ears - AQM / QME



- *History: Onset / Trauma / Recent Illness / Pain / Other Neuropathies
- *Examination:
 - 1. Facial nerve exam: Side / Bilateral (2%) / Complete (70%)
 - 2. Full ENT Exam esp.
 - i) Ear Exam
 - ii) Other Cranial Nerves: weaknesses found in >50% of Bell's Palsy (!!!)
- * Investigation:
 - 1. Audiogram
 - 2. Electrophysiologic Testing
 - 3. Imaging MRI with gad

*Ear - Bell's Palsy

* Treatment

- 1. Eye Care:
 - i) Ophthal Review
 - ii) Sunglasses during day
 - iii) Close eyelid @ night e.g. Tape
 - iv) Artificial Tears
 - **V)** +/- Eye Chamber
- 2. Speech / Dietetics:
- 3. Steroids:
 - * STRONG evidence for Benefit
 - * Onset of Treatment: ideally within 3 days of Symptom onset; up to 14 days
 - * No consensus on Dose & Duration
 - * Prednisolone 1mg/Kg Body Weight/o/daily reducing over 10-14 days
- 4. Anti-virals



- *Prognosis/Recovery:
 - *Complete Recovery in 80-90%; up to 12 months
 - *Poor Outcome Prognostic Factors:
 - **a.** Complete paralysis
 - **b.** Age > 60
 - C. Diabetes
 - d. Hyper-acusis
 - e. Severe Pain
- * Recurrence: 10% of cases

*Ear - Bell's Palsy



*Ear - Bell's Palsx

- *Definition: VZV Related Neuritis involving CN VII & CN VIII, and a vesicular rash.
- *Epidemiology:
- *Aetiopathogenesis:
 - *Reactivation of Latent VZV within the Geniculate Ganglion.
 - *Due to intercurrent stress or illness
 - *Inflammatory/Oedema PLUS direct cytopathic effect

*Ear - Ramsay Hunt Syndrome

- * History:
 - * Past History Chicken Pox / VZV
 - * More likely **Severe pain** than with **Bell's Palsy**
- *Examination:
 - 1. Facial Nerve Weakness
 - 2. Vesicles:
 - Onset:
 - Mostly concurrent with *Paralysis*
 - 25% of cases precede the Paralysis
 - Distribution: Pinna / Post-auricular / EAC / Face / Mucous Membrane / Palate.
 - 3. Ocular Complications: Herpes Zoster Ophthalmicus
 - 4. Hearing Loss / Vestibular Disturbance
 - 25% of patients

*Ear - Ramsay Hunt Syndrome

Right Trigeminal VZV



Right Trigeminal VZV



*Ear - Ramsay Hunt Syndrome





*Investigations:

- 1. Audiology: SNHL
- 2. Serology: Rising Anti-VZV Antibody Titres

*Treatment:

- 1. Corticosteroids
- 2. Anti-Virals
- *Lessens Pain, Promotes resolution of *Vesicles*

*Ear - Ramsay Hunt Syndrome

*Prognosis:

- i) Facial nerve
 - * Worse than Bell's Palsy
 - * 30-50% incomplete recovery
- ii) Vestibulo-cochelar
 - *Complete Recovery: 68% of children, 38% of adults

*Ear - Ramsay Hunt Syndrome

- * History:
- * Examination:
 - * Anterior Rhinoscopy
 - * Nasendoscopy: All persistent/Chronic Epistaxis
- * Investigations:
- * Treatment:
 - * ABCs
 - * Local: Pressure, Cautery, Cream, Ointment, Dressing
 - * Systemic: BP Control, Anti-platelet/Anti-thrombotic reversal,
 - * Specific Conditions: e.g. Hereditary Haemorrhagic Telangiectasia pKTP Laser, Tamoxifen PO, Avastin® Topical
- * When to refer:
 - i) Refractory Acute Bleeding
 - ii) Recurrent/Chronic Bleeding despite max conservative Rx
 - iii) Concern Local or Systemic Underlying Cause

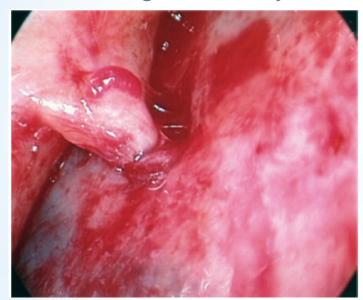
*Nose - Epistaxis

Packing - Newer Agents

Selective Embolisation



AEA Ligation - Artery



AEA Ligation - Artery post Clip



*Nose - Epistaxis

* History:

- * Definitions EPOS 2012 emphasis on Objective component
 - * PPV of History Alone: 58% for GPs, 73% for ENT
 - * CRS +'ve History: 68% & 50% negative on Nasendoscopy and CT respectively

Unified Airway Theory:

- * 78% of asthmatics have Rhinitis / 38% with Rhinitis have Asthma,
- * CRS with polyposis: 50% prevalence of Asthma
- * Onset of Both conditions is within 2 years in 75% of cases
- * Consider unusual underlying causes e.g. Aspirin Exacerbated Respiratory Disease, Churg-Srauss, CF, Wegener's, Sarcoid, Neoplasia

* Examination:

* Nice to find objective evidence - Pus, Polyps,



Fig. 1. Interrelationship of airway diseases with allergic rhinitis.

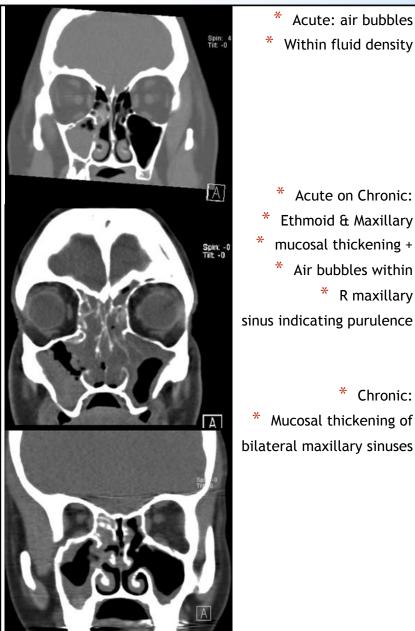


- * Definition of Rhinosinusitis: Inflammation of the Nose and Paranasal Sinuses Characterised by:
 - 2 or more Symptoms, one of which should be either:
 - i) nasal blockage/obstruction/congestion OR
 - ii) nasal discharge (anterior or posterior)
 - +/- Facial Pain/Pressure
 - +/- Reduction or loss of smell
 - AND Objective Signs of Disease on:
 - i) Nasendoscopy
 - a. Polyps
 - b. Mucopurulent Discharge primarily from Middle meatus (MM)
 - C. Oedema/Mucosal Obstruction primarily in MM
 - ii) AND/OR CT Sinuses
 - **a.** Mucosal Changes in *Osteo-meatal Complex* and/or *Sinuses*

- * Duration:
 - * Acute: > 10 days, < 12 weeks
 - * Chronic: > 12 weeks
 - * Nose Allergic Rhinitis / ARS / CRS

- *Investigations:
 - *CT Sinuses
 - *Look for Immunodeficiency
 - * Ig Overall Levels
 - * Subclass e.g. CVID
 - *Look for Allergy RAST, Skin **Prick Test**

Nose - ARS/CRS



- Acute: air bubbles
- Within fluid density

Ethmoid & Maxillary mucosal thickening + * Air bubbles within * R maxillary

* Acute on Chronic:

Mucosal thickening of bilateral maxillary sinuses

Chronic:

* Treatment:

- * Maximal Medical Therapy
 - * Increasingly Topical Medications Steroids e.g. Pulmicort Respules®, Anti-histamines, Antibiotics
 - * New Classes Antileukotrienes e.g. Montelukast

* Surgery

- * : FESS, powered instruments, image guidance
- * Surgery Improves Symptoms in CRS it is NOT a cure
- * Increasing conservatism functional
- * Drug Eluting Spacers / Stents e.g. Propel

* Other Options:

- * Immunomodulation
 - * Desensitisation: SCIT / SLIT / Aspirin Desensitisation
 - * Antibody-Infusion Treatment e.g. Omalizumab (Anti-IgE Ab), Mepulizumab (Anti-IL5 Ab)
 - * Ig Replacement e.g. Intragam®

* When to Refer:

- i) Failed Medical Treatment
- ii) Unilateral Symptoms/Signs/lx
- iii) Alarm Features
 - a. Sinonasal: Bleeding, Cachosmia
 - b. Orbital: Diplpia, Proptosis, Peri-orbital oedema
 - C. Cranial: Meningism, Focal neurology
 - d. Severe Systemic Sx



*Throat - Oropharyngeal SCC

*Throat - Oropharyngeal SCC

* Management:

- * Hx:
 - * Sleep Hygiene,
 - * Nocturnal Sx
 - * Daytime Sx
 - * Social Complications
 - * Risk Factors
 - * Obesity (adults)
 - * Other Active Health Problems

* Examination:

- * General
- * Awake Endoscopy
- * Drug-induced Sleep Endoscopy (DISE)

- *Growing Evidence as a modifiable Cardio-vascular Risk Factor:
 - * OR for Hypertension in patients with OSA = 1.37
 - *OR for CVA in patients with Mod/severe OSA = 4.33 (1.32-14.24)
 - * OR for DM in patients with Mod/Severe OSA = 2.3 (1.28-4.11)

Epworth Sleepiness Scale:

- o Developed by Epworth Hospital, Victoria, Australia
- Subjective measure of EDS (compared with objective measures of EDS)
- Assesses Likelihood of Dozing in Certain Activities
- GOOD Evaluative Tool; NOT a discriminative Tool
 - i.e. scores b/w 2 patients are not comparable.
- Score <5/24 or >15/24 is informative...
 - NO/YES EDS
 - Lacks Sensitivity/Specificity

	Activity	Score – likelihood of
		Dozing
1.	Sitting & Reading	0 = Never
2.	Watching TV	1 = Slight Chance of Dozing
3.	Sitting, inactive in a public Place (e.g.	2 = Moderate Chance of
	theatre / meeting)	Dozing
4.	As a passenger in a car for an hour	3 = High Chance of Dozing
	without a break	
5.	Lying Down to rest in the afternoon	
	when circumstances permit	
6.	Sitting & Talking to someone	Total = 24
7.	Sitting quietly after lunch without	
	EtOH	
8.	In a car, while stopped for a few	
	minutes in Traffic	

Feature	Adult	Child			
Presentation					
Gender	2M:1F	1M:1F			
Excessive daytime sleepiness	Main presenting complaint	Infrequent complaint			
Associated obesity	Majority of patients	Minority of patients			
Underweight / failure to thrive	Not seen	Frequent			
Daytime mouth-breathing	Not seen	Frequent			
Enlarged Ts & As	Rarely seen	Frequent			
Sleep pattern					
Obstructive	Obstructive apnoea	Obstructive apnoea or obstructive hypoventilation			
Arousal with obstruction	Common (i.e. RERAs)	May be less frequent (therefore don't report RDI)			
Disrupted	Common	Not often seen			
Management					
Medical (positive pressure)	Most common	Only in selected patients			
Surgical	Minority of patients with inconsistent results	Definitive in many			

- *Ix:
 - *In-Lab Monitored PSG Remains Gold Standard
 - *Out-of-centre-sleep-testing (OCST)

PROS (over PSG)	CONS (compared with PSG)
 Better Patient Comfort Cost Saving Prevention of Admission Speed of Analysis of Data 	 Sensor Failure @ home Loss of signal (which may lead to repeat studies) Fewer signal channels (less information) AHI is based on Total-Recording-Time; NOT the Total Sleep Time - Therefore, likely to underestimate severity of OSA



e.g. WatchPat® - strong correlation with PSG (r=0.9); high sens/spec

*Ix:

*Home Oximetry in children

* Indication: useful screening tool

* High PPV: 97% for OSA if ≥ 3 drops below 90% SaO2

* Low NPV: 47% - normal, inconclusive study doesn't exclude Severe OSA

Oximetry Score	Comment	Criteria			Recommendation	
		No. of Drops in SaO ₂ <90%	No. of Drops in SaO ₂ <85%	No. of Drops in SaO ₂ <80%	Other	
1	Normal study/ inconclusive for OSA	<3	0	0	Baseline: stable (<3 clusters of desaturation) and >95%	Additional evaluation of breathing during sleep required to rule out OSA
2	OSA, mild	≥3	≤3	0	Three or more clusters of desaturation events ¹⁴	Recommend T&A on the waiting list
3	OSA, moderate	≥3	>3	≤3	Three or more clusters of desaturation events ¹⁴	Recommend surgery within 2 wk
4	OSA, severe	≥3	>3	>3	Three or more clusters of desaturation events ¹⁴	Recommend urgent surgery (within days)

* Treatment Options:

- * Lifestyle: Sleep Hygiene, Weight loss, EtOH avoidance
- * Medical/Conservative: CPAP, MAS
- * Surgery:
 - * Indications:
 - 1. Failure of Conservative Measures
 - 2. Patient Additional Anatomical Symptoms nasal obstruction, snoring, etc.
 - 3. Up-front patient desire to pursue surgery
 - * Need & Nature: Determined by:
 - 1. Severity of OSA
 - 2. Level of Obstruction
 - 3. Chance of Success with particular Surgery
 - 4. Chance of Morbidity with particular surgery

Options:

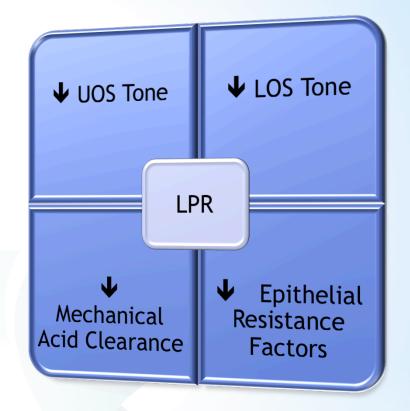
- * Nasal
- * Palate: UPPP, Palatal Advancement Pharyngoplasty
- * Base of Tongue / Hypopharynx: Lingual Tonsillectomy, Tongue Base Volume Reduction
- * Maxillary-Mandibular: Mandibulo-Maxillary Advancement
- * (Tracheostomy)

Definition:

* The retrograde movement of gastric contents into the Laryngopharynx → symptoms referable to the larynx/hypopharynx

Epidemiology:

- * Koufman et al: 50% of patients with laryngeal/Voice disorders had LPR
- * 4-10% of patients in general ENT practice
- * Aetiopathogenesis:



* History:

- * Extra-Oesophageal Reflux Symptoms
 - * Voice: Hoarseness, Vocal Fatigue, Voice breaks
 - * Airway: Cough, Throat Clearing, Laryngospasm
 - * Swallow: Globus, Sore throat, dysphagia
 - Pro Voice: loss of upper range, prolonged warm-up
 - * ? Oesophageal Reflux Symptoms
 - Only in 35% of LPR patients
- * RSI score
 - * > 10 predictive of a positive pH/Impedance study

Box 65-3

The Reflux Symptom Index

Within the past month, how did the following problems affect you? Rank them from 0 (no problem) to 5 (severe problem).

- 1. Hoarseness or a problem with your voice
- 2. Clearing your throat
- 3. Excess throat mucus or postnasal drip
- 4. Difficulty swallowing food, liquids, or pills
- 5. Coughing after you have eaten or after lying down
- 6. Breathing difficulties or choking episodes
- 7. Troublesome or annoying cough
- 8. Sensations of something sticking in your throat or a lump in your throat
- 9. Heartburn, chest pain, indigestion, or stomach acid coming up

From Belafsky PC, Postma GN, Amin MR, Koufman JA. Symptoms and findings of laryngopharyngeal reflux. *Ear Nose Throat J.* 81(Suppl 2):10, 2002.

* Examination

- * Non-specific findings of inflammation
- * Combination of:
 - * Laryngeal Features
 - * Pharyngeal Features
- * Reflux Finding Score (RFS)
 - * > 7/26 = high likelihood that dual probe pH monitoring will be positive
 - * But, relatively poor correlation with symptoms
 - * Sens = 87.8%
 - * Spec = 37.5%
 - * 1 or more signs found in >80% of healthy adults

The Reflux Finding Score

Table 65-1

Pseudosulcus	0, absent; 2, present
Ventricular obliteration	0, none; 2, partial; 4, complete
Erythema/hyperemia	0, none; 2, arytenoids only; 4, diffuse
Vocal fold edema	0, none; 1, mild; 2, moderate; 3, severe; 4, polypoid
Diffuse laryngeal edema	0, none; 1, mild; 2, moderate; 3, severe; 4, obstructing
Posterior commissure hypertrophy	0, none; 1, mild; 2, moderate; 3, severe; 4, obstructing
Granuloma/granulation	0, absent; 2, present
Thick endolaryngeal mucus	0, absent; 2, present

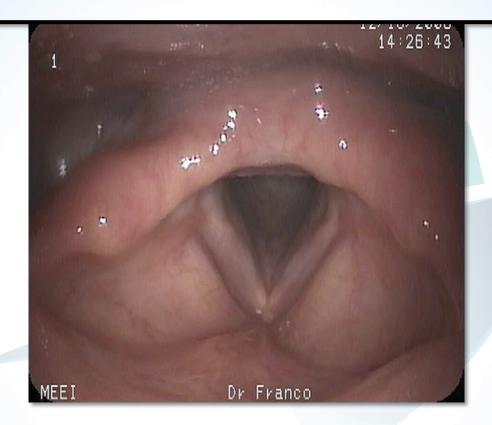
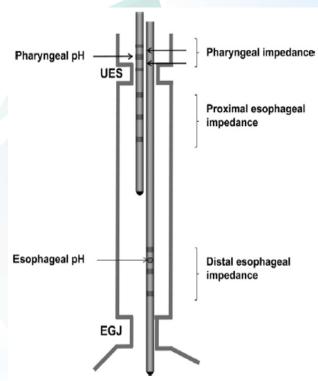


Fig. 1. Laryngopharyngeal reflux. Note diffuse periarytenoid and postcricoid edema, vocal fold edema, and pseudosulcus (the appearance of a "second" vocal fold inferior to the true vocal fold due to edema). The larynx is wet appearing; copious, thick mucus is not seen in this patient as in others.

* Investigation:

- * 24-hour Multi-Channel pH Monitoring / Impedance
 - * Technique: Double or Triple Probe measures acid and non-acid reflux events
 - * Test Findings:
 - * pH drop to < 4
 - * No. of episodes / 24 hours
 - * % Time <4 / 24 hours
 - * Impedance drop by >50%
 - * Test Properties
 - * Sens = poor
 - * Spec = Excellent
 - * ? Reproducibility pseudoreflux due to drying
 - * Poor prediction of response to therapy

Oesophageal and Pharyngeal pH-Impedance Catheter





* Investigation Cont'd

- * Single oro-pharyngeal Impedance Probe e.g. Restech
 - * Technique: trans-nasal probe in oropharynx
 - * Test Results:
 - * % Time below Cutoff
 - * Number of Episodes
 - * Duration of longest episode
 - * Test Properties
 - * Spec: 100%
 - * High PPV
 - * Sens: 69%

Restech Probe ®



*Throat - LPR

Peptest ®

- * Diagnosis Cont'd:
 - * Oral Immunologic Pepsin Assay - Peptest ®
 - * Detects Pepsin in oral saliva through the use of two Anti-Pepsin Monoclonal Abs

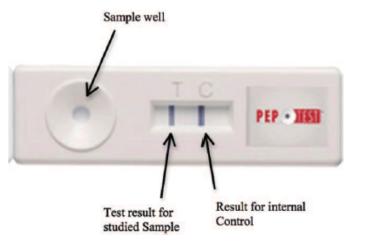
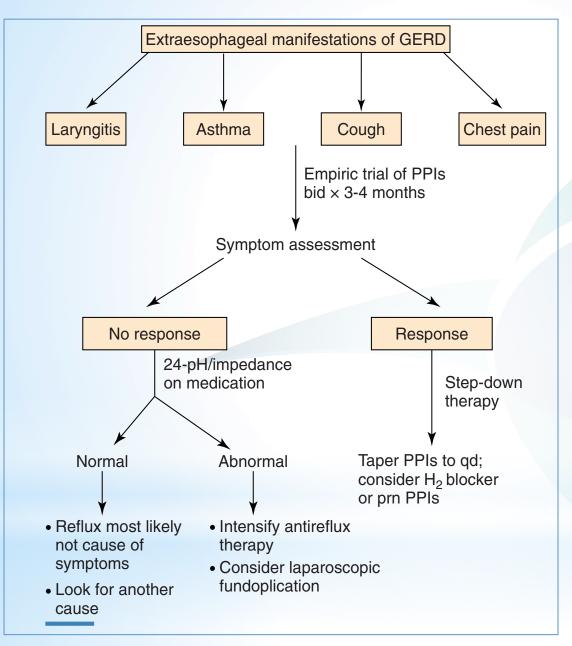


Fig. 1. Pepsin lateral flow device for a gastric juice sample showing a positive pepsin test relative to the control band (C = control band. T = test sample band). [Color figure can be viewed in the online issue, which is available at wileyonline library.com.]

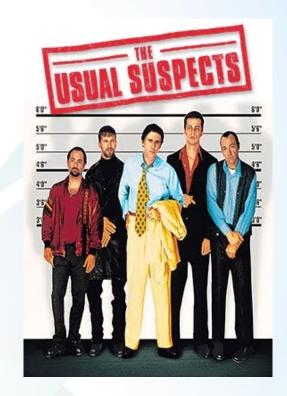






Laryngeal Neuropathic Cough

- * Exclude the 'Usual' Suspects:
 - * Pulmonary Pathology
 - * Laryngopharyngeal Reflux
 - * Allergy / Sino-nasal disease
 - * ACE inhibitor
- * History: Dry, irritant cough; scratchy feeling, paroxysmal, exacerbated by benign stimuli
- * Examination: unremarkable
- * Investigations: unremarkable



*Throat - The Irritable Larynx

* History

Box 1

History associated with PVFMD

Tightness in neck rather than chest

More difficulty getting air in than out

Symptoms brought on by exertion

Events associated with stress or strong emotions

Events triggered by strong odors, perfumes, or chemicals

Rapid onset of dyspnea

Noisy breathing (usually on inhalation)

Poor or inconsistent response to inhalers

History of negative asthma workup

- * Examination: unremarkable
- *Investigations: unremarkable though up to 50% do have concurrent +'ve diagnosis of Asthma
 - * Normal CXR
 - * Normal Spirometry

*Throat - The Irritable Larynx - PYFM

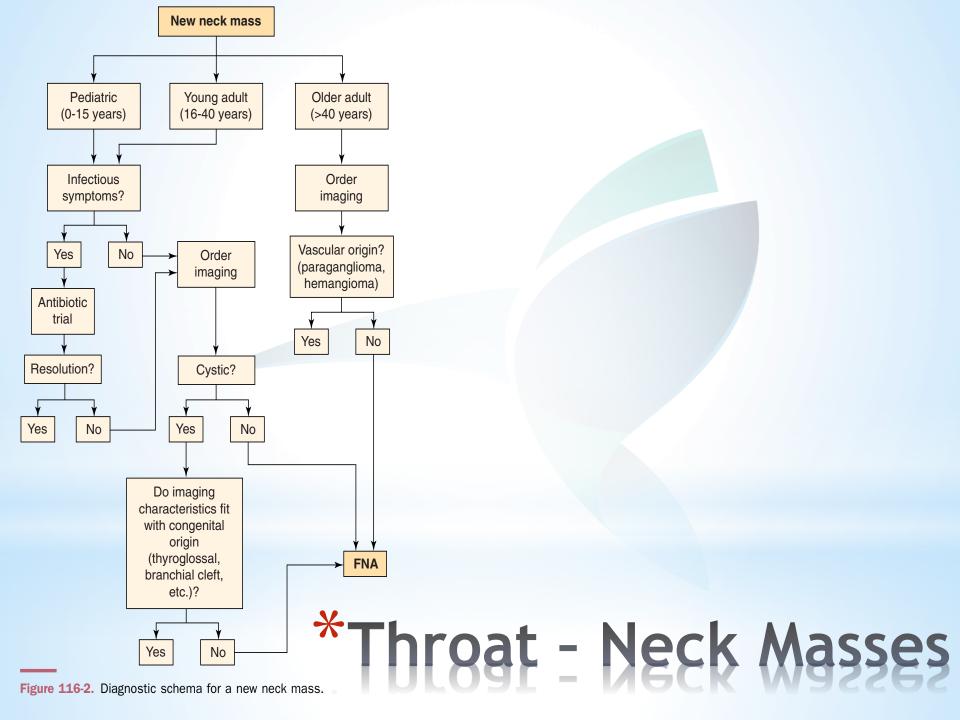
* Treatment:

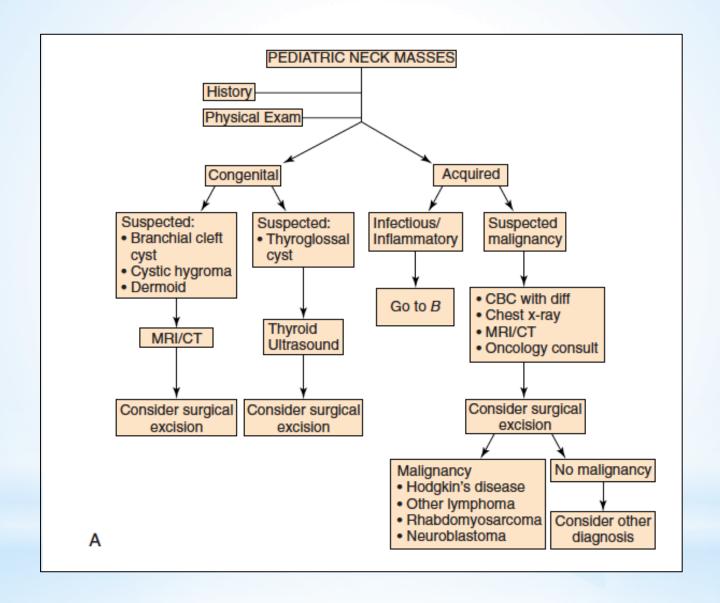
- 1. Speech Therapy Laryngeal Retraining
- 2. Medical:
 - i) Treat Irritants
 - a. LPR
 - b. Allergic Rhinitis
 - ii) 'Stabilise' Nerves
 - a. Amitriptyline
 - b. Gabapentin
 - C. Pregabalin
- 3. Procedural
 - i) Botulinum Toxin
 - Unilateral TA/LCA

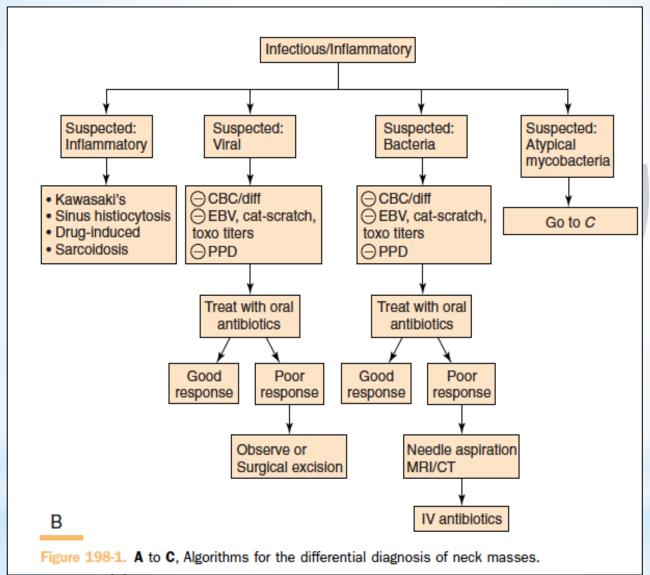


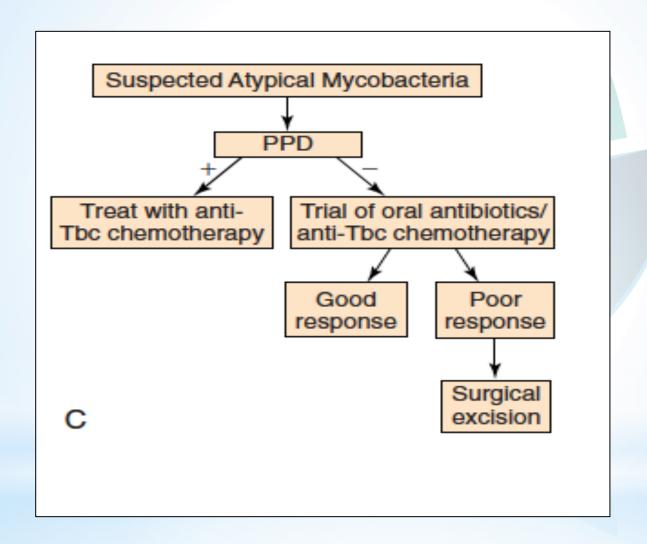
* Throat - The Irritable Larynx - PYFM

- * Adult Neck Mass
- *Any solid asymmetric mass MUST be considered a metastatic neoplastic lesion until proven otherwise
- * Asymptomatic cervical mass 12% of cancer
 - * ~ 80% of these are SCCa
- *Any New Cystic mass (> 40 y.o.a.) must be considered a cystic metastatic lesion until proven otherwise
 - * Thyroid
 - * SCC
 - * Melanoma









*Indications: Adenoidectomy

1.Infection:

- i) Chronic Purulent Adenoiditis
- ii) Adenoid Hypertrophy a/I **Ear Disease:** OME/recurrent AOM/CSOM/MEVT otorrhoea
 - N.B. on 2nd or 3rd Set of MEVTs

2. Obstruction:

- i) Adenoid hypertrophy a/I **OSA**
- ii) Adenoid Hypertrophy with chronic Nasal obstruction

3.Other:

- i) Suspected Neoplasia
- ii) Adenoid Hypertrophy A/I Chronic Sinusitis

*Throat - Adeno-Tonsillectomy

*Indications: Tonsillectomy

- 1. Upper Airway Obstruction in children with OSA
 - i) Moderate/Severe OSA: 1st line Treatment
 - **Becoming** primary indication in Children 85-95% cure rate
- 2. Frequent Recurrent Acute Tonsillitis:
 - i) 7 episodes in preceding 12/12
 - ii) 5 episodes/year for 2 years
 - iii) 3 episodes/year for 3 years
 - Also Consider: Severity of each episode, response to Abx, Number of school days missed, etc
 - Evidence:
 - Using these "Paradise Criteria 1984" (above), there was significant reduction in febrile episodes over the subsequent 2 years post Ts/As compared with controls
 - Almost significant reduction in Sore Throats over 2 years also. (significant @ 3 years)
- 3. Peri-tonsillar Abscess:
 - i) Single Episode 5-22% chance recurrence in 5 years
 - ii) 2 Episodes ? 75-85% chance recurrence in 5 years
- 4. Suspected Neoplasm: only Absolute Indication possible diagnosis if....
 - i) Short Hx < 4-6/52
 - ii) Unilateral tonsillar enlargement > 3cm
 - iii) Significant Cervical LAD > 3cm
 - iv) Hepatosplenomegaly
 - v) B Symptoms
- 5. Uncommon Indications:
 - i) Tonsiloliths / Tonsillar Cysts / Halitosis
 - ii) Other medical problems: Valvular Heart Disease, VP-shunts, Febrile Seizures, poorly controlled DM
 - iii) Recurrent Tonsillar Haemorrhage
 - iv) Chronic Diphtheria Carrier status after failed Antibiotic Eradication

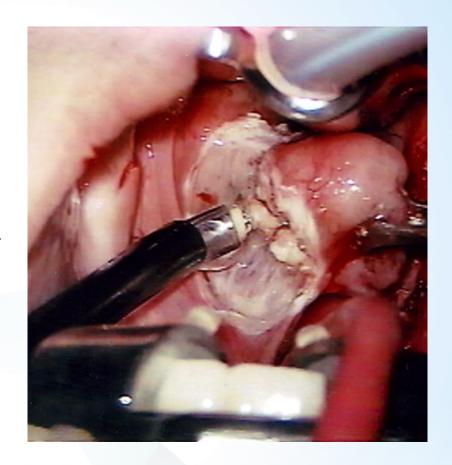
*Throat - Adeno-Tonsillectomy

* Techniques:

- * Cold Steel
- * 'Hot' Techniques: Monopolar/ Bipolar Diathermy
- * 'Warm' Techniques: Coblation Tonsillectomy
 - * Reduced post-operative pain in small prospective trials
 - * Similar bleed rate

*Analgaesia:

* Recent prospective RCT - Use of NSAIDS does NOT increase risk of post-operative haemorrhage



* Throat - Adeno-Tonsillectomy



*Throat - Adeno-tonsillectomy

- *Guidelines and Position Statements:
 - * EPOS 2012
 - *American Academy of Otoloaryngology Head and Neck Surgery - Clinical Practice Guidelines
 - * http://www.entnet.org/content/clinical-practice-guidelines





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- *A Group of sub-specialty Fellowship trained ENT Surgeons
 - *Mr Guillermo Hurtado
 - * General ENT & Fellowship trained in Otology
 - *Mr Paul M Paddle
 - *General ENT & Fellowship trained in Laryngology



*Our Services / Specialty Interests @ Richmond:

- * Consulting / Operating on the Following ENT conditions
 - * General ENT
 - * Paediatric ENT
 - * Otology & Vestibular Disorders
 - * Snoring and Sleep Apnoea
 - * Rhinology
 - * Facial Plastics
 - * Head and Neck
 - * Laryngology Voice / Airway / Swallow
- * Audiology "Richmond Audiology" and independent fullaudiology practice conveniently co-located with MEG
- * Office Based Laryngology
- * pKTP Laser, Photodynamic Therapy,



* Additional Practices:

- * Melbourne Voice Analysis Centre (MVAC)
- * South East ENT

* Our Hospital Appointments/Accreditations:

- * Private:
 - * Epworth Richmond
 - * Epworth Eastern
 - * Mercy Private East Melbourne
 - * Como Private Hospital

* Public:

- * Monash Health
- * Alfred Health
- * Warragul Hospital
- * Swan Hill District Hospital

* Rural Outreach Services:

- * Swan Hill
- * West Gippsland



*Our Teaching / Professional Positions

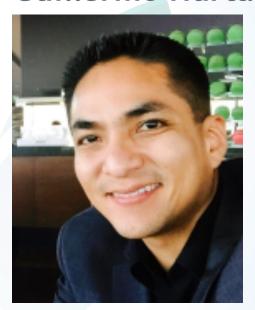
- *Paul Paddle:
 - * Adjunct Lecturer Monash University
 - * Adjunct Senior Lecturer LaTrobe University



Mr Paul M Paddle



Mr Guillermo Hurtado



*Thank You