## **Coughs & Colds**

- Upper Respiratory Tract Illness (URTIs)
- Mostly caused by virus (bacterial infections are secondary)

## Include:

- Common cold (nasopharyngitis or rhinopharyngitis)
- Rhinitis (inflammation of nasal mucosa)
- Pharyngitis, Sinusitis, Epiglottitis, Laryngitis, Tracheitis

General Symptoms	<ul> <li>Local oedema (swelling)</li> <li>Erythema (redness of skin due to congestion of capillaries)</li> <li>Secretions</li> <li>Fever</li> </ul>
How it is Spread	<ul> <li>Symptoms result from inflammatory response of immune system from invading pathogens &amp; toxins produced by pathogens</li> <li>Involve direct invasion of mucosa lining upper airways</li> <li>Mostly spread person-to-person by droplets from mouth/nose/direct contact with secretions</li> <li>Viruses &amp; bacteria have mechanisms for avoiding body's defences</li> <li>Symptoms appear ~ 1-3 days after exposure</li> <li>Symptoms last 7-10 days</li> </ul>

Common Cold	Rhinovirus (3)	0-50% of cases)			
	• Common reason to visit GP (~1/3 of visits): Peak incidence in winter but occur all				
	year round				
	Child < 8 years: 5-10 colds/year				
	Adults: 2-4 colds/year				
	Symptoms usually resolve in 1 week, but up to 25% lasts 2 or more weeks				
	Causes	Body's inflammatory response to pathogen (virus)			
		<ul> <li>Virus invades &amp; dmg nasal epithelial cells = Inflammator response (redness, heat, swelling, &amp; pain)</li> </ul>			
		Delivery of more blood & heat from body (fever) helps body's defense to function more effectively & slows growth of virus.			
		<ul> <li>Fluid from blood vessels leaks into inflamed area causing oedema (nasal congestion &amp; sneezing) and delivering antibodies.</li> </ul>			
		• Identified pathogens are then devoured by granulocytes. Debris is blown away from nose/coughed up from air passages.			
		• Fluid might also drip down back of throat, spreading virus to throat & upper chest causing cough & sore throat.			
	Symptoms	Sore throat			
appearance)  • Profuse • Mild to	Sneezing				
	appearance)	Profuse nasal discharge (rhinitis) & congestion			
		• Mild to moderate fever (38 – 39°C) & general malaise			
		Postnasal drip			
		Possible headache			
		Cough			

## Differential Headache/pain worsened by sneezing, coughing & bending Diagnosis over (sinusitis) Ear pain – middle ear (otitis media); Common in children More severe symptoms could be 'flu' Rhinitis with no other symptoms (REFER) Under 3mths & temp >38°C (REFER) >3mths & other S<sub>x</sub> (headache, drowsiness, seizure, difficulty breathing, vomiting, diarrhoea, new skin rash, dehydrated) (REFER) **Treatment** OTC Meds (usually combo products that include 1< ingredient): Analgesics (Paracetamol, Aspirin, Ibuprofen for FEVER) Paracetamol 1000 mg in a sachet (Lemsip): Mix into boiling water to create hot lemon drink that is very soothing **Antihistamines Anti-Tussives (Cough Suppressant Drugs) Expectorants (Aids clearance of mucus)** Sympathomimetics (Decongestants) - Effective for drying up runny nose (rhinitis) Pseudoephedrine (S3) (Sudafed) • Inhalation (Nasal Decongestants) (e.g. Methol & Eucalyptus Inhalation): 5 mL added to ~ 600 mL hot (not boiling) water & inhale vapor If Child <2yrs: No oral formulations for rhinitis (use VapoRub or fill nasal decongestants in steam vaporizer) Saline Nasal Sprays/Drops (FESS) - For Cold & Flu Fess Little Noses (for babies): Use 1 to 3 sprays in each nostril as often as needed **Fess Original**: 2-3 sprays per nostril (for child); 2-6 sprays per nostril (for adult) Contains no drugs therefore can be safely used in all age groups & in pregnancy • Non-irritant because buffered isotonic saline **Lifestyle Advice:** • Check temp regularly \*if above 38.5 & has other S<sub>x</sub>, go to doctor Keep hydrated • Ensure all family members practice good hand hygiene. Duration is usually 7-10 days • If cold lasts >10 days, if S<sub>x</sub> worsen or becomes unwell, see doctor • Vaporiser could be used to help relieve congestion as well. Drink warm demulcents (honey/lemon) Reduce exposure to cigarette smoke. Influenza Influenza A, B & C (Flu) Elderly, pregnant women & people with underlying medical conditions more likely to develop secondary complications (pneumonia/inflammation of brain & heart) Treatment • Immunisation for best control

				•	temp. has been in normal range	for 48
				Maintain fluids     Treat troubling sym	antomo (Daracotamol & Acnirin (a	امليائد)
	Questio	n/Feature	Cold		nptoms (Paracetamol & Aspirin (a Flu	iduits
	Onset of symptoms		onset within 1 to 3 days - occurs ant time during the		onset tends to be abrupt: 1 to 3 hours - peak incidence is in winter	
	ar pr		and myalgia may not be present, cough is productive, no shivering or chills		marked myalgia, shivering, chills, malaise, aching of limbs, insomnia, non-productive cough and loss of appetite.  debilitating and person usually cannot get out of bed – third party presents to pharmacy	
	Fever pres	sent		mild	high	
	Duration			2 – 3 days	up to 10 days	
	Nasal Syn	nptoms		runny nose	dry nose & throat	
		• >2wks Bronch	vks could itis) (RE	Subacute: 3- be 'post-viral' cough/s EFER)	expectorant & suppressant in sa  8 wks Chronic: >8 wks secondary bacterial infection (si  ulosis or carcinoma (cancer)	(REFE
				e Coughs (chesty)	Dry/Non-Productive Coughs (d	lry, tic
		Body is impair	trying body	to expel secretions that 's ability to resist n't suppress!!	,,	,,
• Treatment Expectora guaifenes		Expectoran guaifenesin Mucolytics	& sen	•	<ul> <li>Anti-tussives (cough suppre Pholcodine, dextromethors dihydrocodeine (S3) &amp; code</li> </ul>	han,
		REFER		<ul> <li>Wheeze (asthma,</li> <li>Shortness of brea cardiovascular)</li> <li>Discoloured spute</li> </ul>	n > 14 days  piratory noises (croup/whooping acute bronchitis)  oth (asthma, acute bronchitis,  um (infection, CV or cancer) on (Pleurisy/pneumothorax)	cough
Acute Coug	h	<ul> <li>Usually caused by</li> <li>More prevalent in</li> <li>Children (0-4 yrs):</li> <li>Pertussis: Indigend</li> </ul>		<ul> <li>Usually caused by</li> <li>More prevalent ir</li> <li>Children (0-4 yrs)</li> <li>Pertussis: Indiger</li> </ul>	viral URTI	

	Cumptons		andle, management with a condition annual annual and the Co.
	Symptoms	• Sput	cally present with sudden onset associated with fever tum production is minimal ptoms often worse in the evening
			ociated cold symptoms often present –cough & cold ptoms usually last 7-10 days
• Croup	Causes	• Para	ptoms triggered by recent viral infection influenza virus & rhinoviruses cts children 3mth – 6 yrs (highest incidence: 1-2 yrs)
	Symptoms	<ul><li>Occu</li><li>Desc</li><li>In be</li><li>to be</li><li>Typi</li><li>nigh</li></ul>	urs in late evening & night cribed as a barking or seal-like cough etween coughing, child may be breathless & struggling reathe properly cally, symptoms improve during day & recur again at
	Treatment	Mild	Can be managed at home Warm moist air (e.g. vapouriser or take child into bathroom & turn on shower (steam))
		Severe	<ul> <li>If child has stridor – send parents to Department of Emergency Medicine, RCH or Mater Children</li> <li>Oral/inhaled prednisolone (reduce swelling)</li> <li>Nebulised adrenaline (reduce swelling)</li> </ul>
Postnasal Drip	<ul><li>(usually product</li><li>Usually follows</li></ul>	ctive cougl common wallowing	asal discharge that flows behind nose & into throat h)
	Treatment	_	estant (e.g. pseudoephedrine) to dry up nose & rant cough mixture if required
Allergy Related	discharge/block	roductive ted with c kage, conj	other symptoms such as sneezing, nasal unctivitis or itching oral cavity, nocturnal snoring
	Treatment		histamines (sedating/non-sedating) -tussive (cough suppressant) e.g. pholcodine
Sore Throat	<ul> <li>Often associate</li> <li>Extremely com</li> <li>Up to 90% viral</li> <li>Strep throats madults &amp; young</li> </ul>	from scra ed with co mon prese ; other 10 nost preva children ften assoc	tchiness to severe pain mmon cold entation to pharmacy & GPs % bacterial (Streptococcus pyogenes) lent in school aged children (5-15 yrs) & very rare in ciated with markedly swollen glands & may see pus on algesics (Paracetamol/Aspirin): Gargling soluble
			tions & then swallowing slowly is very effective)  Sprays or Gargles & Lozenges

		<ul> <li>Ingredients: Topical anaesthetics (lignocaine, benzocaine), anti-inflammatory (flurbiprofen in Strefen), antibacterial agents (chlorhexidine, dequalinium chloride (Cepacol), benzalkonium chloride</li> <li>Lozenges (e.g. Strepsils, Soothers) promotes antibacterial action</li> </ul>	
Streptococcal Sore	Affects pharynx & tonsils		
Throat	Highly contagious – spread through close contact with infected person		
	Treatment	Penicillin	