



RESPIRATORY SYSTEM НАЧАТ ВАТСН



http://www.medclubhu.weebly.com/

Respiratory Tra	ct Infections	
Upper Respirato	ory Tract Infection (URTI)	
Definition	Might bacterial or viral infection	Self-limited irritation and swelling of upper airways
Causes		Rhinovirus, influenza virus; bacterial: Streptococcus pyogenes ^{no signs of pneumonia} When there is pneumonia, you have upper and lower
Symptoms	•Low-grade fever •Facial pressure •Sneezing	Cough, sore throat, runny nose, nasal congestion, headache
Onset		1-3 days after exposure, lasts 7-10 days, can persist up to 3 Weeks If it happens Once a year , it is fine الكتر من مرة بالسنة التحوّل ل
Treatment		و صاربدو treatment غير treatment غير Penicillins preferred for bacterial infections; macrolides for penicillin allergies
Lower Respirato	ory Tract Infection (LRTI)	
Conditions		Bronchitis, bronchiolitis, pneumonia
Treatment		Based on specific diagnosis and causative agent
Antibiotics		
Penicillin		S-Effective against Gram-positive and -negative cocci, (GG), and anaerobes; penicillin G, ampicillin, amoxicillin, carbenicillin, piperacillin Pourble generation
Macrolide	Antimicrobial spectrum is slightly wider than that of penicillin>> common substitute for patients with a penicillin allergy.	Effective against Gram-positive bacteria, some Gram- negative bacteria, Legionella pneumophila, mycoplasma, mycobacteria, and chlamydia; azithromycin, clarithromycin, erythromycin

Upper Respiratory Tract Infection (URTI): Rhinitis	Marking the suggestion			
Definition	No role of Abs. (treating the symptoms) Common cold (viral infection)			
Symptoms	Cough, headache, mild fever, sore throat, runny nose			
Onset	2-3 days after infection			
Main Virus	Rhinoviruses			
Pharmacological Management	1. Dextromethorphan 2. Antihistamines 3. Painkillers 4. Decongestants			
Sometimes we give for viral infections antibiotics in case of there is a complication or predisposing factors				
Upper Respiratory Tract Infection (URTI): Pharyngitis				
Definition	Inflammation of the throat (pharynx)			
Duration	3-5 days			
Causes Swollen tonsils + high temperature+white places Streptococcus pyogenes: Penicillin or Amoxicillin(Oral)>>Cephalosporin	Bacterial or viral infection			
Complications(Cephalexin)>Macrolide (Azithromycin)• Viral: self-limiting Sometimes we give for viral infections antibiotics in case of complications or	Sinusitis, acute otitis media			
Treatment predisposing factors Conservative + oral CS (1-2 for pain on swallowing) + lidocaine wash + Because there is NSAIDs inflammation, pain Candida albicans: clotrimazole	Penicillin or Amoxicillin (Oral)>>Cephalosporin (Cephalexin)>>Macrolide (Azithromycin)			

Upper Respiratory Tract Infection (URTI): Sinusitis

URTI -> sinusitis.

Predisposing Factors	URTI, nasal septum deviation, tooth extractions, smoking,
Antibiotics not recommended in those with	etc. cystic fibrosis and immunodeficiency. Abs (green or yellow color= for the use Abs beadache or toothache) bacterial infection or clear= allergy)
Symptoms (I	headache or toothache) Nasal congestion, facial swelling, discharge
Common Pathogens	Viral, Streptococcus pneumoniae, Haemophilus influenzae
Empiric Antibiotic Therapy	Amoxicillin/clavulanic acid >>doxycycline or cephalosporins ^{3rd} (cefixime) >> fluoroquinolone
✤Macrolides (clarithromycin or azithromycin) are not	(levofloxacin or moxifloxacin)
يغضّل ما تبلش فيهم عندك خيارات تانية <u>recommended for empiric therapy</u>	وست problem عا يعلى المسمر على المسمر على معنان عا يصبع عمتان عارض عمتان عارض عمتان عارض عمر على معامر مع علاج عمر المعرب فو علاج problem وعب معامر والمعرب فو علاج problem وعبت والمعرب فو علاج problem وعبت والمعرب فو علاج والمعرب فو
	Oral corticosteroids and antibiotics (limited evidence, after culture)
Upper Respiratory Tract Infection (URTI): Acute Otitis	Inflammation in middle ear-> fluid retention -> bacterial grow
Media	
Definition	Inflammation in middle ear causing fluid retention
Symptoms	Ear pain, fever, fullness, irritability tug on the involved ear, difficulty sleeping (children)
Complications	Eardrum rupture, mastoiditis, CNS involvement
Common Pathogens	Streptococcus pneumoniae, Haemophilus influenzae, Staph
	aureus
Treatment	Amoxicillin-clavulanate>>cephalosporin (Cefuroxime)>> doxycycline or macrolide
Treatment	Amoxicillin-clavulanate>>cephalosporin (Cefuroxime)>> doxycycline or macrolide (Azithromycin)

Upper Respiratory Tract Infection (URTI): Diphtheria	المشكلة في البكتيريا و toxin تاعما بدك تتعامل معهم patch develops	
Symptoms	Sore throat, lack of appetite, low-grade fever, throat patches	
Pathogen	Corynebacterium diphtheriae	
Complications	Myocarditis, nerve inflammation, kidney problems	
Treatment ->	تو المكتيريا نقط To deal with toxin Diphtheria antitoxin + erythromycin , p enicillin	
Upper Respiratory Tract Infection (URTI): Acute Epiglottitis	Acute -> Not chronic.	
Definition	Inflammation in supraglottic region, including epiglottis	
Symptoms	Difficulty swallowing, drooling, fever, rapid pulse	
Common Pathogens	Haemophilus influenzae, Streptococcus pneumoniae	
Treatment When the patient becomes stable	لاتھ بنعطی بالمستشفی فحتی ما یصیر معھ resistance بنعطی معھ vancomycin Cephalosporin (ceftriaxone) + vancomycin	
	Do not use tongue depressor or attempt throat swab Patients need airway management before treatment requires immediate airway management (tracheal	
Upper Respiratory Tract Infection (URTI): Croup and	intubation).	
Laryngitis	• Starts or get worse at night and normally lasts one to two days.	
Symptoms	difficult breathing Barking cough, stridor, hoarseness, fever, runny nose	
Pathogens	Mainly viral (parainfluenza, influenza)	
Treatment	ceftriaxone)+vancomycin) Nebulized epinephrine, corticosteroids, specific antibiotics	

Disease	Symptoms	Pathogens (common)	Pharmacotherapy
Rhinitis	Cough, headache, fever*, sore throat and rhinorrhea	Viruses	Supportive: Dextromethorphan, Anti-histamines, Pain-killers, Decongestants.
Pharyngitis	Sore throat, difficulty speech and swallowing, swollen tonsils and bad breath	<u>Strep. Pyogens</u> : Penicillin/Amoxicillin (Oral)^^ > Cephalosporin (Cephalexin) ^^ > Macrolide (Azithromycin) <u>Viral</u> : self-limiting: conservative + oral CS (1-2 for pain on swallowing) + lidocaine wash + NSAIDs <u>Candida albicans</u> : clotrimazole	
Sinusitis	Nasal congestion, facial swelling, tenderness, discharge (colour?)	Strep. Pneumonia and H. Influenza.	 Amoxicillin/clavulanic acid ^^ > doxycycline or cephalosporins^{3rd} (cefixime) ^^ > fluoroquinolone (levofloxacin or moxifloxacin) Chronic: Intranasal saline, Intranasal corticosteroids, Oral corticosteroids and antibiotics (limited evidence, after culture)
Acute Otitis Media	Ear pain (otalgia), fever, sensation of fullness	Strep. Pneumonia, H. Influenza and Staph. aureus	Amoxicillin-clavulanate [^] > cephalosporin (Cefuroxime) [^] > doxycycline or macrolide (Azithromycin)
Diphtheria	Sore throat, lack of appetite, low-grade fever and grey or white patch develops in the throat	Corynebacterium diphtheriae	Diphtheria antitoxin (horses) + erythromycin ^^ > penicillin
epiglottitis	Trouble swallowing, drooling, fever, aphonia and an increased breathing rate	Streptococcus pneumoniae and haemophilus influenzae	requires immediate airway management (tracheal intubation). Cephalosporin3rd (ceftriaxone) + vancomycin
Croup and laryngitis	"barking/brassy" cough, inspiratory stridor, hoarseness, difficult breathing, fever and runny nose Starts or get worse at night	Mainly viral (parainfluenza and influenza) Rarely bacterial	Corticosteroids and nebulized epinephrin Used in very specific cases: Cephalosporin3rd (ceftriaxone) + vancomycin

