

Infection	Treatment
Pneumonia following influenza	By staph flucloxacillin
Pneumonia with chronic lung disease	Amoxicillin or trimethoprim or ciprofloxacin (H. influenza + pneumonia)
Community acquired pneumonia	<ul style="list-style-type: none"> <li>- aminoglycoside with cefotaxime</li> <li>- If pseudomonas suspected: Piperacillin</li> <li>- For Pneumocystis carinii pneumonia in AIDS give co-trimoxazole orally or IV</li> </ul>

**\* Hospital "Nosocomial"**

cause: staph aureus  
H. influenza + pseudomonas

↑ in MRSA

- ciprofloxacin + vancomycin

- 3<sup>rd</sup> (CS) → cefotaxime + gentamicin + Aminoglycoside.

Immuno-compromised - S. aureus + S. pneumoniae

Aminoglycoside + cefotaxime.

Pneumocystis carinii  
co-trimoxazole

P aeruginosa  
piperacillin  
(anti-pseudomonas)

<p>علي دين ما بدو يخلف (دين) Dinoprostone</p>	<p>ايياء ضغضاها (Epoprostenol) مرتفع</p>	<p>3. PGE<sub>1</sub> analogue قلبو ميسو (Alprostadi):</p>	<p>CLINICAL LT antagonists</p>
<p>Induction of abortion or labour. Enhance labour. Stop post partum hemorrhage.</p> <p>All are given intra-vaginal or intra- amniotic or IV infusion.</p>	<p>sometime used by IV infusion for primary pulmonary hypertension, and to protect platelets during hemodialysis</p>	<p>is useful as urethral suppositories for male impotence, and sometimes IV to maintain patency of ductus arteriosus in some forms of congenital heart disease</p>	<p>Clinically useful LT antagonists used for <b>asthma prophylaxis</b> include :</p> <ol style="list-style-type: none"> <li><b><u>Zileuton</u> : 5-LOX inhibitor</b> that decrease LTs synthesis</li> <li><b><u>Zafirleukast &amp; Monteleukast</u>: LT receptor antagonists</b></li> </ol>
<p>PGE<sub>1</sub> analogue (Misoprostol): ميسو عندها حموضة و ما بدها تولد</p>	<p>.PGF<sub>2α</sub> analogue (Latanosert):</p>		
<p>given orally to prevent peptic ulcer due to NSAIDs , and sometimes for induction of abortion</p>	<p>used as eye drops to increase drainage of aqueous humor and decrease the intraocular pressure in glaucoma</p>		

prostanoid	genital system & eyes	Brain	Kidney	endothelium	platelets	smooth muscle			CNS & PNS	Neuroendocrine organs	Bone metabolism
						Vascular	GI	airways			
PGI <sub>2</sub>		✓	✓ ↑GFR	✓	✓ inhibits aggregation	✓ -V.d (lower BP) as potent than PGE <sub>2</sub>	✓ ↑gastric acid secretion	✓ bronchodilation			
TXA <sub>2</sub>			✓ ↓GFR		✓ aggregation	✓ V.C		✓ bronchospasm			
PGE <sub>1,2,3,4</sub>	PGs ↓ IOP PGEs - ↑ IOP - ↑ prostaglandin synthesis - ↓ prostaglandin synthesis	✓	✓ PGE <sub>1,2</sub> ↑GFR		✓	✓ -PGE <sub>2</sub> → V.d (lower BP) - maintenance of ductus arteriosus	✓ PGE <sub>2</sub> → ↑gastric acid secretion	✓ PGE <sub>1,2</sub> bronchodilation	✓ -PGE <sub>1,2</sub> ↑ temperature -PGE → ↓ NE	✓ PGE promotes the release of ① GH ② TH ③ LH ④ ACTH ⑤ ESH	✓ PGE <sub>2</sub> ↑ bone turnover (resorption & formation)
PGD <sub>2</sub>		✓						✓ bronchodilation			
PGF <sub>2α</sub>	✓ eyes ↓ IOP					✓ V.C		✓ bronchospasm			

## Bronchodilator

Beta – agonist		Antimuscarinic	Methylxasin
<p><b>Short-acting (SABA)</b>  <b>1. salbutamol</b> صلب  <b>2. Terbutaline</b> تولين</p>	<p><b>Long-acting (LAMA )</b>  <b>Salmeterol</b> سالم</p>	<p><b>1. ipratropium</b>  <b>2. Oxitropium</b>                      اوكسي ابرة</p>	<p><b>1. Coffaine</b>  <b>2. Theophylline</b> →aminophylline( soluble form-  <b>IV infusion )</b></p>
<p><b>1. Salbutamol (Ventolin;</b>                      Albuterol)                      -<b>acute attacks</b> can be given by inhalation, orally or by injection in severe cases</p> <p>-Inhaled salbutamol produces <b>rapid effects</b> but up to 20% may be absorbed &amp; may produce systemic effects</p> <p>Its t ½ is about 4 hours</p> <p>acts within few minutes &amp; reaches maximum in 30 minutes &amp; action lasts 4-6 hours</p> <p>It is given as 1-2 puffs 4-time daily</p> <p><b>Adverse effects:</b> tremor, tachycardia &amp; hypokalemia due to shift of potassium into cells</p>	<p>is <b>long-acting</b> , has slower onset of action &amp; longer duration (12 hr)</p> <p>It should not be used for treatment of <b>acute attacks</b> because of its slow onset of action (15-30 min) but <b>used for as prophylaxis in chronic asthma</b></p>	<ul style="list-style-type: none"> <li>- in acute severe asthma combined with β2-agonists to potentiate bronchodilatation</li> <li>- Inhaled , synthetic derivatives of atropine</li> <li>- less effective than adrenergic agonists</li> <li>- They block vagus-mediated effects on bronchi (M3-induced bronchospasm &amp; increase mucous secretion)</li> </ul>	<p>It is a bronchodilator useful in <b>acute asthma attacks &amp; in chronic asthma</b></p> <p>Has been replaced by B2 agonists and CS due to narrow therapeutic window, side effects and drug interactions</p> <p><b>orally or aminophylline by IV infusion</b> , can be administered IV (slowly) (status asthmaticus)</p> <ul style="list-style-type: none"> <li>-Absorption is good</li> <li>-The t ½ is about 8 hours</li> <li>-To enhance theophylline solubility, it is usually mixed with EDTA forming <b>aminophylline</b></li> </ul> <p><b>Adverse effects:</b> nausea, vomiting, insomnia &amp; hypotension</p> <p>Has a <b>narrow therapeutic index</b></p> <p>Arrhythmias &amp; convulsions may develop with high doses</p>

## Expectorants (جواي فيميسست ابودين مؤيد؟)

### Theory :

expectoration (removal) of mucus → reduce the viscosity of secretions +disintegrate and thin secretions: thinner mucus that is easier to remove

### Direct stimulation

EX : iodine-containing Products such as **iodinated glycerol** + **potassium iodide**

The secretory glands are stimulated directly to increase their production of respiratory tract fluids

### Reflex stimulation

EX : **guaifenesin**

- Agent causes irritation of the GI tract

Loosening and thinning of respiratory tract secretions occur in response to this irritation

- Helps loosen phlegm and thin bronchial secretions in patients with stable chronic bronchitis.

### Dose :

All every 4 h

Syrup (100mg/5ml)

syrup - 12 years of age and older: 2 to 4 teaspoonfuls (200 mg to 400 mg) not to exceed 2400 mg (24 teaspoonfuls) in 24 hours.

Children 6 years to under 12 years of age: 1 to 2 teaspoonfuls (100 mg to 200 mg) not to exceed 1200 mg (12 teaspoonfuls) in 24 hours.

(النص)

Children 2 years to under 6 years of age: ½ to 1 teaspoonful (50 mg to 100 mg) not to exceed 600 mg (6 teaspoonfuls) in 24 hours. (النص)

Children 6 mo. to under 2 years of age: A common dosage is 1/4 to ½ teaspoonful (25 mg to 50 mg) every four hours, not to exceed 300 mg (3 teaspoonfuls) in 24 hours.

النص

Infection	Treatment
<b>Acute bronchitis</b> - s. pneumoniae + H. influenzae - { fever + pain + cough + expectoration }	<del>Amoxicillin</del> <del>metaxalin</del> Amoxicillin, tetracycline <sup>protein</sup> or co-trimoxazole (Trimethoprim + Sulphamethaxzole)
<b>Chronic Bronchitis</b> chronic smoker	Treating acute exacerbation as acute bronchitis
<b>Community acquired pneumonia</b> s. pneumoniae { fever + pleuritic + chest pain }	Amoxicillin (oral) + Benzylpenicillin IV or <sup>Drug of choice.</sup> In penicillin allergic patients, (erythromycin or clarithromycin, azithromycin) <sup>Macrolid.</sup> In seriously ill patients use benzylpenicillin with (ciprofloxacin) <sup>Amoxicillin</sup> In penicillin-resistant pneumococci infections, <del>Amoxicillin</del> cefotaxime (claforan) IV (3d G)
<b>Atypical pneumonia</b> pathogens: Mycoplasma + Pneumonia + Chlamydia + P. stewartii + Legionella	(tetracycline, erythromycin or clarithromycin) <sup>for 3 weeks</sup>

Reduction of bronchial inflammation	Prophylaxis		
CORTICOSTEROID (CS)	Leukotriene receptor antagonists	Omalizumab (Xolair)	Mast cell stabilizer
<p>1. Oral<sup>o</sup> predni-solonein ( in severe attacks ) + inhalational (الوحدة بارة (بردني سولو )</p> <p>2. IV<sup>o</sup> -methyl-prednisolonein (severe attacks)</p> <p>3. Inhalational<sup>o</sup> Beclo-methasone بكلة</p> <p>4. Fluti-casone ايت خال فلوتي</p> <p>5. Budesonide (بيد (سرير</p>	<p>1. Montelukast orally once daily</p> <p>2. Zafirlukast orally twice daily</p> <p>مونتي على زافر لانك من عيلة لوكست (بنت عمو )</p>	<p>Omalizumab (Xolair)</p> <p>اوه مالي زنب</p>	<p>Cromoglicate (Cromolyn)</p> <p>شلونو قلقت (كلونو )</p>
<p>IN moderate to severe asthma that need frequent daily administrations of <math>\beta</math>2-gonists</p> <p>Topical adverse effects: oral candidiasis (thrush) &amp; hoarseness of voice can be reduced by using a spacer device &amp; rinsing mouth</p> <p><b>-are not direct bronchodilators</b></p>	<ul style="list-style-type: none"> <li>- block LTD4-receptors &amp; prevent bronchoconstrictor effects of leukotrienes C4, D4 &amp; E4</li> <li>- as in aspirin-induced asthma (also with other NSAIDs)</li> <li>- well-tolerated &amp; used to reduce frequency of exacerbations التفاقم</li> </ul>	<ul style="list-style-type: none"> <li>-monoclonal antibody</li> <li>-moderate to severe cases, who are poorly controlled by conventional therapy</li> <li>-It binds to immunoglobulin IgE, decrease binding of IgE to receptor on mast cells</li> <li>-Due to high cost, not used as first-line</li> </ul>	<ul style="list-style-type: none"> <li>-not in acute asthmatic attacks</li> <li>-does not reverse bronchospasm</li> <li>-fine powder by inhalation or as aerosol solution for period of <b>6-8 weeks</b> to reduce bronchial reactivity</li> </ul>

<b>Expectorant syrup</b>	<b>Expectorant codeine syrup</b>
<p data-bbox="7 808 638 880"><b>Each 5 ml contains:</b></p> <ol data-bbox="7 907 798 1366" style="list-style-type: none"><li data-bbox="7 907 766 978">1. Guaifenesin 100 mg</li><li data-bbox="7 996 702 1176">2. Chlorpheniramine 2mg</li><li data-bbox="7 1193 798 1366">3. Phenylpropanolamine 5mg</li></ol>	<p data-bbox="818 808 1449 880"><b>Each 5 ml contains:</b></p> <ol data-bbox="818 907 1580 1556" style="list-style-type: none"><li data-bbox="818 907 1580 978">1. Guaifenesin 100 mg</li><li data-bbox="818 996 1516 1176">2. Chlorpheniramine 2mg</li><li data-bbox="818 1193 1564 1366">3. Phenylpropanolamine 12.5mg</li><li data-bbox="818 1384 1564 1556">4. Codeine phosphate 10 mg</li></ol>



## Mucolytics

### **Bromhexine** بروم هكسين (سنة) بلاش تخليها ستين

#### Quantity :

Ellixir: 4mg/5ml

Inj. : 4mg/2ml

Tab : 8mg

#### Dose:

Adult 1-2 tabs (10-20 cc ellixir) tid

5-10 years : 4mg qid

< 5 years : 4mg bid

-oral mucolytic agent with a low level of associated toxicity.

#### Mechanism of action:

- acts on the mucus at the formative stages in the glands, within the **mucus-secreting cells**.

-disrupts the structure of **acid mucopolysaccharide** fibres in mucoid sputum and produces a less viscous mucus, which is easier to expectorate.

#### Contraindications

with known hypersensitivity or idiosyncratic reaction to **bromhexine** hydrochloride (or any of the other ingredients in the product).

#### Precautions

history of gastric ulceration. "disrupt the gastric mucosal barrier,"

#### Use in pregnancy

without any proven increase in the frequency of malformations or other direct or indirect harmful effects on the foetus having been observed.

#### Lactation

It is not known whether is excreted in breast milk or whether it has a harmful effect on the breastfeeding infant. Therefore it is **not recommended for breastfeeding**

#### S.E

**Gastrointestinal side effects** may occur occasionally

transient rise in **serum aminotransferase values** has been reported.

Other: headache, vertigo دوارة(dizziness), sweating and allergic reactions.

### **NAC ((N-acetyl cysteine))**

**M.comyst**(Acetylcysteine)

#### Quantity :

Inj : 200mg/ml

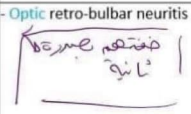
Tab : 200mg

Eff. Tab.: 600mg

#### **Mucomyst** is used for:

Treatment of abnormal, sticky, or thick mucus secretions in various lung problems

Infection	Treatment
<p><b>Acute sinusitis</b></p> <p>→ Decongestion [ephedrine + Xylometazoline]</p>	<p>oral amoxicillin or co-amoxiclav or doxycycline <del>or</del> (tetracycline)</p>
<p><b>Chronic sinusitis</b></p>	<p><u>anatomical abnormalities</u> (polyp, nasal septum deviation) should be corrected &amp; antibiotics are given according to results of culture &amp; sensitivity</p>
<p><b>Otitis media</b></p> <p>→ ↑ viral, ↑ sinus ⇒ strep. pyogenes (Fever + sore throat + swallowing difficulty)</p> <p><b>Tonsillitis</b></p> <p>→ Treatment for 10 day to prevent Rheumatic Fever.</p> <p>(macrolid)</p> <p>penicillin</p>	<p>amoxicillin or Co-amoxiclav</p> <ul style="list-style-type: none"> <li>- viral = spontaneously + analgesia</li> <li>- bacterial ⇒ eardrum inflamed + bulging.</li> </ul> <p>benzylpenicillin (injection), phenoxymethylpenicillin (oral) } erythromycin or clarithromycin } or cephalexin (1st generation)</p>

Anti-tuberculous drugs					First line → 2 months	Second line → 4 months
	Isoniazid (INH)	Rifampicin (RIF)	Ethambutol	Pyrazinamide	Streptomycin	Capreomycin
<b>MOA</b>	Interferes with mycolic acid synthesis (unique to mycobacterial cell wall) زيد حيط الخيط with "pyridoxine" in both 2 → 4 months.	DNA-dependent RNA polymerase inhibitor, •Bactericidal, G+/- kill intracellular organism ريف البرقائية	arabinosyl (helps TB in survival inside macrophages) transferases inhibition Bacteriostatic ايما الشاطرة بالعربي عمية	Fatty acid synthesis inhibition Inactivate mycobacteria at acidic PH Effective against intracellular organism in macrophages – PH is low زينة دية	MOA → Aminoglycoside - Inhibits protein synthesis Bactericidal P.K → Poorly absorbed from GIT - IM. CSF penetration: poor Renal elimination S.E → Ototoxicity, vestibular toxicity, nephrotoxicity Uses → very ill patients, Multi- drug resistance Not responding to treatment	MOA → Peptide antibiotic Broad spectrum antibiotic P.K → IM + Reaches the CSF well S.E → •Causes CNS side effects •affect 8 <sup>th</sup> cranial nerve – deafness, ataxia Uses → drug resistant TB
<b>P.K</b>	-GI absorbed -20%CSF -Fatty food & aluminum-containing antacids may reduce absorption -Penetrate well into caseous material -Excretion – urine -Metabolism By acetylation – genetically determined Slow acetylation – better response t ½ - 3h Fast acetylation – t ½ - 1h poor	-GI absorbed -10-40%CSF -Renal & hepatic Elimination -- Potent CYP-P450 inducer- reduce the serum level of drugs → warfarin, oestrogen (most increase their level with it) *absorption influenced by food	-GI absorbed -CSF penetration poor - bioavailability 80% -Elimination renal	-GI absorbed -CSF penetration = plasma concentration -Hepatic metabolism -Excretion - kidney *kill dormant one.		
<b>S.Es</b>	-Hepatotoxicity C ↑ + acetylation -Hemolytic anemia in GP6D deficiency -Rash & acne -Polyneuropathy : prevent by (+pyridoxine "vit B6)	Hepatotoxicity -Thrombocytopenia -liver enzymes -Rash -Orange urine sweat, tears	- Optic retro-bulbar neuritis 	Hepatotoxicity -GI disturbance -Arthralgia -Hyperuricemia-gout		
	Acts only on mycobacteria -Passes freely to mammalian cell wall -Effective for intracellular organism -Bacteriostatic – to resting organism -Bactericidal – to multiplying organism	-Resistance – chemical modification of DNA-dependent RNA polymerase	-Resistance develops rapidly if used alone	*All take it 30 min before breakfast.		Others Clarithromycin ,Ciprofloxacin Cycloserine , Kanamycin Amikasin SIMDR → XDR } extensive drug resistant

## Antitussives

Used to stop the cough reflex when the cough is nonproductive and/or harmful

Opioid (narcotic )		Nonopioid (nonnarcotic)	
Used only for <i>nonproductive</i> coughs dry cough by acting on the cough <b>center in the medulla</b> S.E Sedation, nausea, vomiting, lightheadedness, constipation    حكي دكتور : مع الكوديين كل شي بيوتي		-Suppress the cough reflex by preventing the cough reflex from being stimulated	
Codeine	Dextromethorphan HBr	Clobutinol HCl	benzonatate (Tessalon Perles)
S.E: High abuse potential CNS depressant  10%: Drowsiness, Constipation 1-10: CNS: dizziness, confusion, euphoria النشوة, malaise الضيق, headache, restlessness, CNS stimulation Respiratory: SOB تنهد, dyspnea (use with caution in patients with respiratory disorders) Skin: rash, urticaria GI: xerostomia, anorexia, N/V GU: decreased urination, ureteral spasm	Quantity : Tab 15 mg Drop 4mg/ ml Syrup 15 mg/5ml -unlike the isomeric <u>levorphanol</u> , it has no analgesic or addictive <b>مسبب</b> properties. - <b>Mechanism</b> : elevates the <u>threshold</u> for coughing. = codeine in depressing the cough reflex. pharmacokinetics In therapeutic dosage does <b>not</b> inhibit ciliary activity. - <b>rapidly</b> absorbed from the GIT and exerts its effect in <u>15 to 30 minutes</u> . The duration of action 3 to 6 h S.E -Dizziness, <u>drowsiness</u> , nausea - <b>may</b> produce central excitement + mental confusion. - <b>Very high doses</b> may produce respiratory depression. - <b>One case of toxic psychosis</b> (hyperactivity, marked visual and auditory hallucinations) - after ingestion of a single dose of 20 tablets (300 mg ) <b>has been reported</b> . cautions Hepatic disease Asthmatic With MAOI " <b>antidepressant</b> " (hallucination, delirium, hyperpyrexia)	Quantity : Tablets 40 mg Drop 60mg/ml Injection 20mg/2ml Dosage: Adults 30-40 drops or 1-2 tab tid Children 1drop/kg tid  Contraindication Epilepsy , pregnancy	S.E Dizziness, headache, sedation, nausea, and others

Comments



Doctors 2019 (Nabed)

Juman Riyad · 25 Jan · 🌐

مرحبا نبض في اكثر من حد سألني عن تلخيص الفارما فهاد الرابط الي جمعتهم في وهدول الصور بالتوفيق يا رب 🙏👍  
ضفت ادوية محاضرة 5 عشان الي بدو يدرسهم عالماشي برضو بالصور في تشبيهات لانهم عاخر دراسة قصدي الي بالبوست

[https://l.facebook.com/l.php?u=https%3A%2F%2Fdrive.google.com%2Fdrive%2Ffolders%2F1jvzoy9K4AXba2Yc9bF7Ahd\\_1JS\\_sWbVb%3Fusp%3Dsharing%26fbclid%3DIwAR1mvXRIGv9Wg\\_\\_u4I1PcLkUM9J7XeGM1Y-PEi6XsZDA9lkGgQLF5zYQC\\_o&h=AT3nr9Tm4dj1N99DxxdCr3hg0eG659jQrXA5HRhz7G9Zfms\\_uQPEID4vFH6UPX4Wrk6jYMK\\_dwTupJg2XlyzZtygopgBAKzQirsADi6kvcRBZlu2dRSgnj1TbSs8PQuI8FSC&\\_\\_tn\\_\\_=-UK-R&c\[0\]=AT36Bamj0u4wbKglmabJNvaAsbqCC\\_S8veTsFPKne9nP6Exuj6VtYlyk9mY-CS83LObLLpOwcsWyL1pSVDx6jt--YCSluFwc\\_KPMnlWJITuA9D1HSr6ZqxfWUqNBjxl23xODknz9SxMch55cTpAr16DolX6I5fvY1Q](https://l.facebook.com/l.php?u=https%3A%2F%2Fdrive.google.com%2Fdrive%2Ffolders%2F1jvzoy9K4AXba2Yc9bF7Ahd_1JS_sWbVb%3Fusp%3Dsharing%26fbclid%3DIwAR1mvXRIGv9Wg__u4I1PcLkUM9J7XeGM1Y-PEi6XsZDA9lkGgQLF5zYQC_o&h=AT3nr9Tm4dj1N99DxxdCr3hg0eG659jQrXA5HRhz7G9Zfms_uQPEID4vFH6UPX4Wrk6jYMK_dwTupJg2XlyzZtygopgBAKzQirsADi6kvcRBZlu2dRSgnj1TbSs8PQuI8FSC&__tn__=-UK-R&c[0]=AT36Bamj0u4wbKglmabJNvaAsbqCC_S8veTsFPKne9nP6Exuj6VtYlyk9mY-CS83LObLLpOwcsWyL1pSVDx6jt--YCSluFwc_KPMnlWJITuA9D1HSr6ZqxfWUqNBjxl23xODknz9SxMch55cTpAr16DolX6I5fvY1Q)

Infection	Treatment	Infection	Treatment
sinusitis	oral amoxicillin or co-amoxiclav doxycycline	Pneumonia following influenza	flucloxacillin
sinusitis	anatomical abnormalities (polyp, septum deviation) should be corrected antibiotics are given according to re	Pneumonia with chronic lung disease	Amoxicillin or trimethoprim or ciprofloxacin (B. pertussis + pneumonia)
		Community acquired pneumonia	- aminoglycoside with cefotaxime - If pseudomonas suspected: Piperacillin - For Pneumocystis carinii pneumonia in AIDS give co-trimoxazole orally or IV

Rules



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Notifications 1



Menu

**Doctors 2019 (Nabed)**  
Private group  
904 Members

See Group

First Generation (amine +azine)	Second Generation (adine )	HISTAMINE H2 ANTAGONISTS (idine)
<p><b>EX :</b></p> <ul style="list-style-type: none"> <li>Ethanolamines: DCD كحول ايثان</li> <li>Diphenhydramine , Clemastine , Dimethindene</li> <li>Ethylenediame</li> <li>Triprolidine ايثل باخذك رحلة</li> <li>Alkylamine: الكل كلور</li> <li>Chlorpheniramine</li> <li>Phenothiazine: فينو ثيازين؟</li> <li>Promethazine بالاروم</li> <li>Piperazines: Hydroxyzine , Cyclizine ; Meclizine ظفلة</li> <li>مطلولة منوره مأكولة (زين)</li> </ul>	<p><b>EX :</b></p> <ul style="list-style-type: none"> <li>Cetirizine (Zyrtec) كيري</li> <li>Fexofenadine (Tel-fast) فيكس</li> <li>Loratadine (Clarinase) لورا</li> <li>Desloratadine (Aerius )</li> <li>Azelastin (Intranasal Spray) ايزري</li> <li>لورا ايدها جبنة كيري عشان</li> <li>فيكس (تصلح ) ديس (السنية ) لورا</li> <li>.. اوكي ايزري</li> </ul>	<p><b>EX :</b></p> <ul style="list-style-type: none"> <li>cimetidine سيمي</li> <li>( Tagamet)→prototype.</li> <li>Ranitidine (Zantac)+ راني</li> <li>famotidine+ فاموت</li> <li>nizatidine having fewer S.E than cimetidine. نيزات</li> <li>نيزات فاموت و اشرب عصير راني. سيم (same )</li> </ul>
<p><b>Uses:</b></p> <ul style="list-style-type: none"> <li>anaphylaxis</li> <li>Antiallergy (dermatoses +.. itis)</li> <li>Sedative</li> <li>Diphenhydramine</li> <li>motion sickness (meclizine, cyclizine)</li> <li>Antiemetic: prophylactic for motion sickness (promethazine)</li> <li>Antivertigo (meclizine) safe in pregnancy</li> <li>Local anesthetic: diphenhydramine</li> <li>Antitussive ( cough ) diphenhydramine نوم و تخدير كحه</li> </ul>	<p><b>Uses:</b></p> <p>Antiallergy</p> <p><b>S.E</b></p> <ul style="list-style-type: none"> <li>Lower than first</li> <li>terfenadine (seldane) + astemizole (hismanal) removed t due to effects on cardiac K+ channels - prolong QT interval (potentially fatal arrhythmia "torsades de pointes")</li> <li>fexofenadine is active metabolite of terfenadine</li> <li>Cetirizine more sedative than fexofenadine or loratadine. Do not use with pilots.</li> </ul>	<p><b>Uses:</b></p> <ul style="list-style-type: none"> <li>acid-peptic disease (duodenal ulcer) →reduce nocturnal acid secretion,</li> <li>Intravenous → gastric erosions + hemorrhage that occur in stressed patients in intensive care units.</li> <li>In Zollinger-Ellison syndrome, which is associated with gastrinoma and characterized by acid hypersecretion, peptic ulceration, gastrointestinal bleeding, and diarrhea, but very large doses are required; proton pump inhibitors are preferred.</li> <li>Used in gastroesophageal reflux disease (GERD), but they are not as effective as proton pump inhibitors</li> </ul>
<p><b>S.E</b></p> <ul style="list-style-type: none"> <li>Sedation (Paradoxical Excitation in children)</li> <li>Dizziness + Fatigue</li> <li>Tachydysrhythmias in overdose - rare</li> <li>Allergic reactions with topical use</li> <li>Peripheral antimuscarinic effects (dry Mouth, blurred Vision , constipation, urinary Retention)</li> </ul>	<ul style="list-style-type: none"> <li>Erythromycin and ketoconazole inhibit the metabolism of fexofenadine and loratadine in healthy subjects, this caused no adverse effects</li> </ul>	<p><b>Pharmacokinetics:</b></p> <ul style="list-style-type: none"> <li>orally active, t<sub>1/2</sub>→ 1–3 h.</li> <li>available in oral over-the counter formulations.</li> </ul>
<p><b>Drug interactions:</b></p> <ul style="list-style-type: none"> <li>antimuscarinics</li> <li>Potentiate CNS depressants</li> </ul> <p>Opioids , sedatives ,general and narcotic analgesics , alcohol</p>	<p><b>Pharmacokinetics:</b></p> <p>Cetirizine , loratadine , fexofenadine لورا , فيكس و كيري</p> <ul style="list-style-type: none"> <li>well absorbed and are excreted mainly unmetabolized form.</li> <li>They are less lipid soluble than the first-generation agents</li> <li>T<sub>1/2</sub> →12–24 h.</li> <li>They induce Cyt P450 liver enzymes</li> </ul>	
<p><b>Pharmacokinetics:</b></p> <ul style="list-style-type: none"> <li>oral route+ promoted for topical use in the eye or nose.</li> <li>Cross BBB and placenta</li> <li>metabolized in the liver (induce hepatic microsomal enzymes).</li> <li>T<sub>1/2</sub> → 4 to 12 h.</li> </ul>		