

Drug Classes & Actions : Antihistamines Cheat Sheet by Roxanne (Reuben) via cheatography.com/69645/cs/18367/

Commonly Prescribed Fo	r	
Allergic Rhinitis	Hay Fever	Insomnia
Nasal Congestion	Anaphylaxis	Urticaria
Motion Sickness	Angioedema	Drug Fevers
Parkinson-like Reactions		

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Allergy Symptoms

Sedative

Anticholinergic-Properties: Antihistamines effect the secretions of the lacrimal, salivary, and respiratory mucosal glands.

What is Histamine?

Released By: mast cells, basophils, and other cells in response to antigens circulating in the blood.

Mechanism Of Action: bind to/activate cells in the nose, eyes, respiratory tract, GI tract, and skin, producing characteristic allergic S&S

MOA - Receptor Antagonist & Inverse Agonist

H Receptor Antagonist: Competes with histamine at the unoccupied H receptor sites of basophil and mast cells in the smooth muscle surrounding blood vessels and bronchioles.

Inverse H Receptor Agonist: Binds to the H receptors and instead of taking up the space, induce the opposite effect of a histamine.

First Generation: Strong sedative effect, can increase the effect of opiods analgesics and some non-opiod analgesics. Can be used as an analgesic itself in some cases (orphenadrine)

Second Generation: Less likely to cause adverse effects on the heart, central nervous system and other organs than first generation antihistamines. Have a less sedative effect because they cross the blood-brain barrier slower and act mainly on peripheral receptors. Have a longer duration of action.

Third Generation: Stimulant and nootropic effects.

Fourth Generation: Immunomodulatory effects

NOTE: Antihistamines do not block histamine release, antibody production, or antigen-antibody reactions. They also don't push off histamines from receptor sites.

Generic &	Гrade Nar	nes	
Generic	Trade	Route	
Peripherally Acting			
Loratadine	Claritin	Tablet (10mg), Soft Gel Capsule (10mg), Syrup	

Generic & Trade Names (cont)				
Cetirizine Hydrochl	Cetirizine Hydrochloride			
Fexofenadine Hydrochloride				
Traditional				
Diphenhydramine	Aller-Aide®,	caplets, capsules, chewable		
Hydrochloride	Allernix®,	tablets, liquid, injection, spray,		
	Benadryl®,	creams, lotions		
	others			

Name Endings	
-astine	Antihistaminics
-azoline	Antihistaminic, local vasoconstrictor
-rizine/izine/yzine	Antihistaminic, peripheral/cerebral vasodilator
-tadine	H1-receptor antagonists, tricyclic compounds
-tidine	H2-receptor antagonists, cimetidine derivatives

Precautions & Contraindictions			
Impaired Kidney Function	Pyloric Obstruction	BPH	
Severe Liver Disease	Prostatic Hypertrophy	Children <6yrs	
Peptic Ulcer Disease	Hypersensitivity	Pregnancy	
Cardiovascular Disease	Seizure Disorders	Hyperthyroidism	
Pulmonary Disease (COPD)	Angle-Closure Glauco	ma	

Interactions		
Interactions	Increases	Decreases
MAO Inhibitors	Anticholinergic Properties	
CNS Depressants	Sedation Effects	
CNS Depressants: Alcohol, antidepressants, opiod analgesics, sedatives & hypnotics		





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Side Effects			
Cardiovascular			
Dysrhythmia	Palpations	Syncope	Hypotension
CNS			
Paradoxical Excitement	Sedation	Nervousness	Dizziness
Muscular Weakness	Restlessness	Seizures	
Gastrointestinal			
Nausea & Vomiting	Hepatitis	Diarrhea	Constipation
Other			
Visual Disturbances	Xerostomia	Tinnitus	Vertigo
Dry Nose & Throat	Headache	Urinary Retenti	on

Assessments

Nausea & Vomiting: Assess the degree and frequency of nausea and the amount of emesis when administering for nausea and vomiting

Anxiety: Assess mental status, mood, and behavior when administering for anxiety.

Pruritus: Observe character, location, and size of affected area when administering for pruritis skin conditions.

Respiratory: Assess lung sounds for bronchial secretions. Maintain fluid intake (1500-200ml/day) to decrease viscosity secretions.

Allergy Symptoms: Assess for this before and periodically throughout treatment.

IV Therapy: Assess BP and RR before and throughout IV therapy.

Nursing Diagnosis	
Ineffective Airway Clearence	Indications
Risk for Injury	Adverse Reactions
Deficiet Knowledge (Disease Process/Medication Regimen)	Patient/Family Teaching

Implementation

Prophylaxis of Motion Sickness: Administer 30min-2hrs before exposure to motion sickness inducing conditions.

Concurrent Use w/ Opiod Analgesics: Supervise ambulation to prevent injury secondary to increased sedation.

Patient Education

Drowsiness: Inform patient they may feel drowsy. Avoid driving and activities requiring alertness.

Sedation: Caution patient to avoid concurrent use of alcohol or CNS depressants.

Xerostomia: Advise patient good oral hygiene, frequent mouth rinsing with water, and sugarless gum/candy may relieve from mouth dryness

Persistent Symptoms: Inform patient to contact a health care professional if symptoms persist.

Evaluation/Desired Outcomes Decrease/Prevent nausea Decrease allergic S&S Decrease/Prevent vomiting Relieve pruritus Sedation when used as a hypnotic Decrease anxiety

Additional Notes	

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