

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

# Commonly Prescribed For... 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 bloodbrain 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 & Trade Names

Generic Trade Route

Peripherally Acting

Loratadine Claritin Tablet (10mg), Soft Gel Capsule (10mg),

Syrup (1mg/ml)

Generic & Trade Names (cont)

Cetirizine Hydrochloride

Fexofenadine Hydrochloride

Traditional

Diphenhyd- Aller-Aide®, caplets, capsules, chewable ramine Allernix®, tablets, liquid, injection, spray, Hydroc- Benadryl®, creams, lotions

hloride 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 & Contraindiction	ons	
Impaired Kidney Function	Pyloric Obstruction	BPH
Severe Liver Disease	Prostatic Hypert- rophy	Children <6yrs
Peptic Ulcer Disease	Hypersensitivity	Pregnancy
Cardiovascular Disease	Seizure Disorders	Hyperthyr- oidism
Pulmonary Disease (COPD)	Angle-Closure Glauce	oma

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	Hypote- nsion
CNS			
Paradoxical Excitement	Sedation	Nervou- sness	Dizziness
Muscular Weakness	Restle- ssness	Seizures	
Gastrointestinal			
Nausea & Vomiting	Hepatitis	Diarrhea	Consti- pation
Other			
Visual Disturbances	Xerostomia	Tinnitus	Vertigo
Dry Nose & Throat	Headache	Urinary Rete	ntion

### 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

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### References

Additional Notes

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