### On behalf of Vision Expo, we sincerely thank you for being with us this year.

#### Vision Expo Has Gone Green!

We have eliminated all paper session evaluation forms. Please be sure to complete your electronic session evaluations online when you login to request your CE Letter for each course you attended! Your feedback is important to us as our Education Planning Committee considers content and speakers for future meetings to provide you with the best education possible.



#### disclosures

last 12 months

allergan/abbvie sun pharma tarsus pharma Ocuphire Bruder Scope last 12 months

sydnexis
eyenovia bio
laboratoires Thea
visus/tenpoint
therapeutics
Harrow

last 12 months

aperta biosciences astareal, inc. azura ophthalmics aldeyra therapeutics Vyluma Lenz

"All relevant relationships have been mitigated."

# The OTC Allergy Equation: Timing, Treatment, and Tailored Care

### The OTC Allergy Equation: Timing, Treatment, and Tailored Care

Milton M. Hom, OD, FAAO, FACAAI (Sc) eyemage@mminternet.com

## The OTC Allergy Equation: Timing, Treatment, and Tailored Care

One airway philosophy

Cases

Antihistamines, Asthma, Allergic conjunctivitis

Allergic rhinitis, Allergic cough, Allergic hives

### Truth or Tale?

Allergic conjunctivitis is an eye disease

It's not just the eye—it's the body.

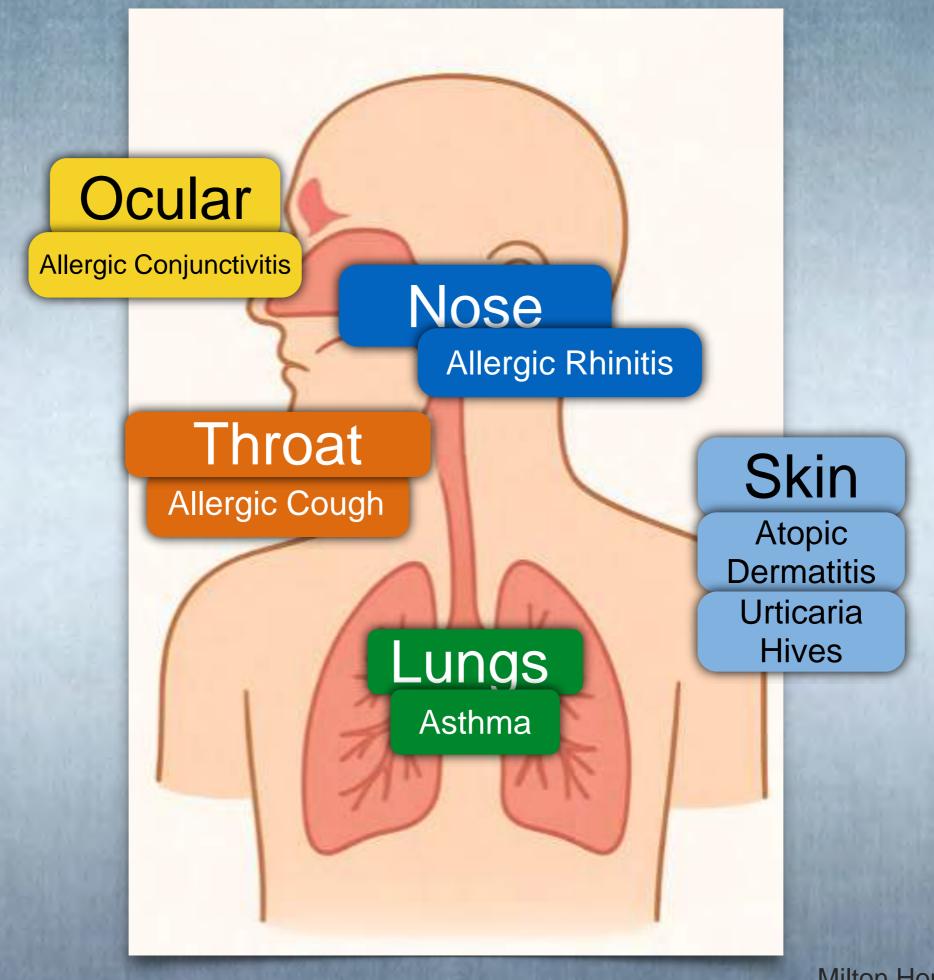
allergic conjunctivitis = systemic allergy

# One airway One disease

Grossman J. One airway, one disease. Chest. 1997 Feb;111(2 Suppl):11S-16S. doi: 10.1378/chest.111.2\_supplement.11s. PMID: 9042022.

# One airway philosophy: "The upper and lower airways are a single organ that work together"

Grossman J. One airway, one disease. Chest. 1997 Feb;111(2 Suppl):11S-16S. doi: 10.1378/chest.111.2\_supplement.11s. PMID: 9042022



### OTC Toolbox

Ocular

Topical anti-histamines

cyclosporine

Loteprednol

PF Artificial tears

Throat

Cough suppressants

Nin Jiom

Nose

Sprays

Saline rinses

Lungs

Prescribed Inhalers

Primatene mist emergency use

Skin

Topical anti-histamines & steroids

Lubrication

Oral anti-histamines & Pepcid

Systemic

Oral anti-histamines

### OTC Toolbox

Oral anti-histamines













**Topical** anti-histamines





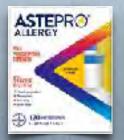








#### **Sprays**









#### Saline rinses

Lubrication





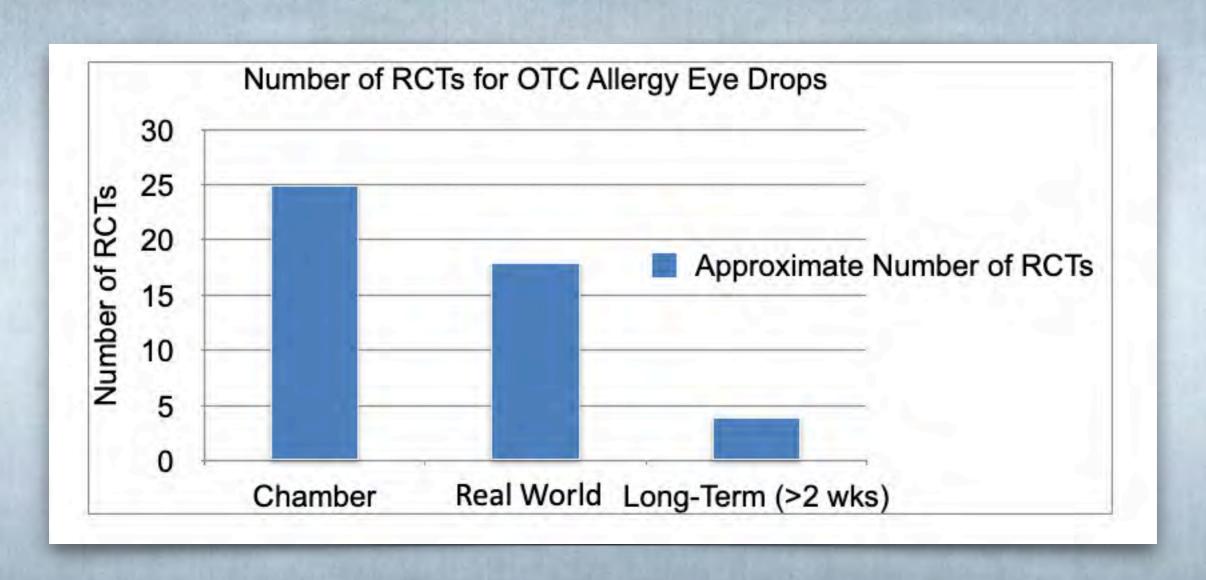




### Allergic conjunctivitis drops

Data Gap: Most studies are chamber studies (1-2 days) Very few are real world and over 2 weeks

### Allergic conjunctivitis drops



# Case Vignette: The Sniffling Accountant

### Case Summary

- Jason, 39-year-old CPA with persistent nasal congestion.
  - Symptoms: "Can't breathe through my nose at night—wakes me up." Morning stuffiness, post-nasal drip
- - Current OTC: Loratadine daily
  - Triggers: Office pollen, scented candles, window open at night

### Case Summary

- 🔀 Jason, 39-year-old CPA with persistent nasal congestion.
  - Symptoms: "Can't breathe through my nose at night—wakes me up." Morning stuffiness, post-nasal drip
- - Current OTC: Loratadine daily
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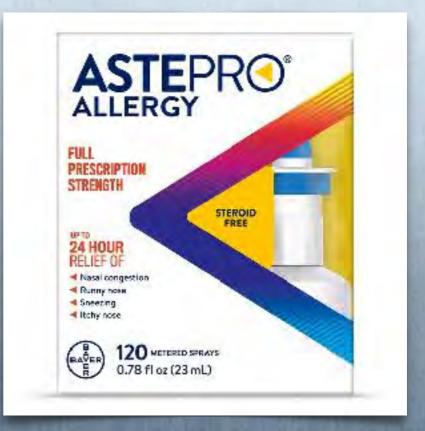
### Allergic rhinitis

### Sprays







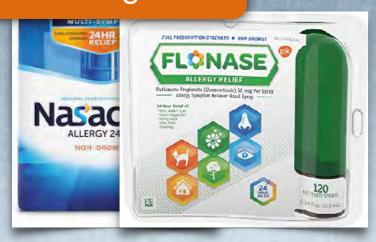


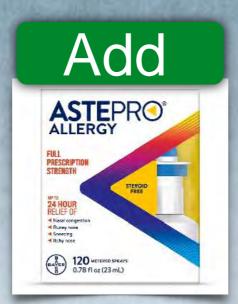


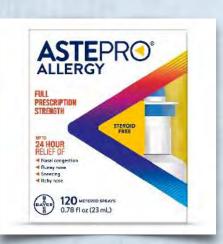


Cromolyn 1965
Opti-Crom
Inventor: Dr. Roger Altounyan
8 years 500 compounds
1000 asthma attacks

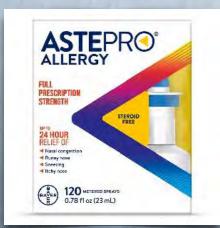
#### Allergist





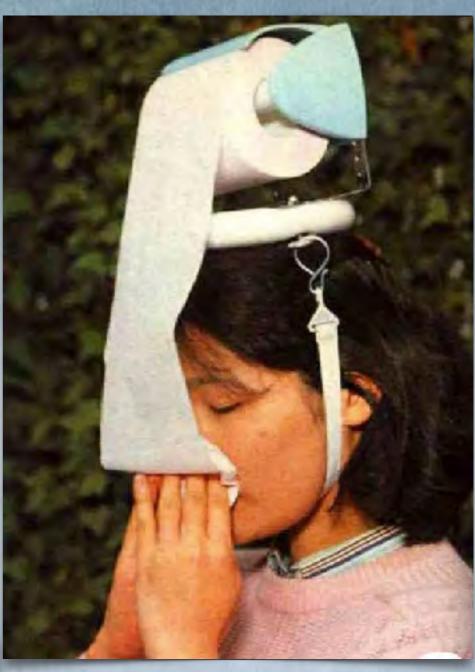


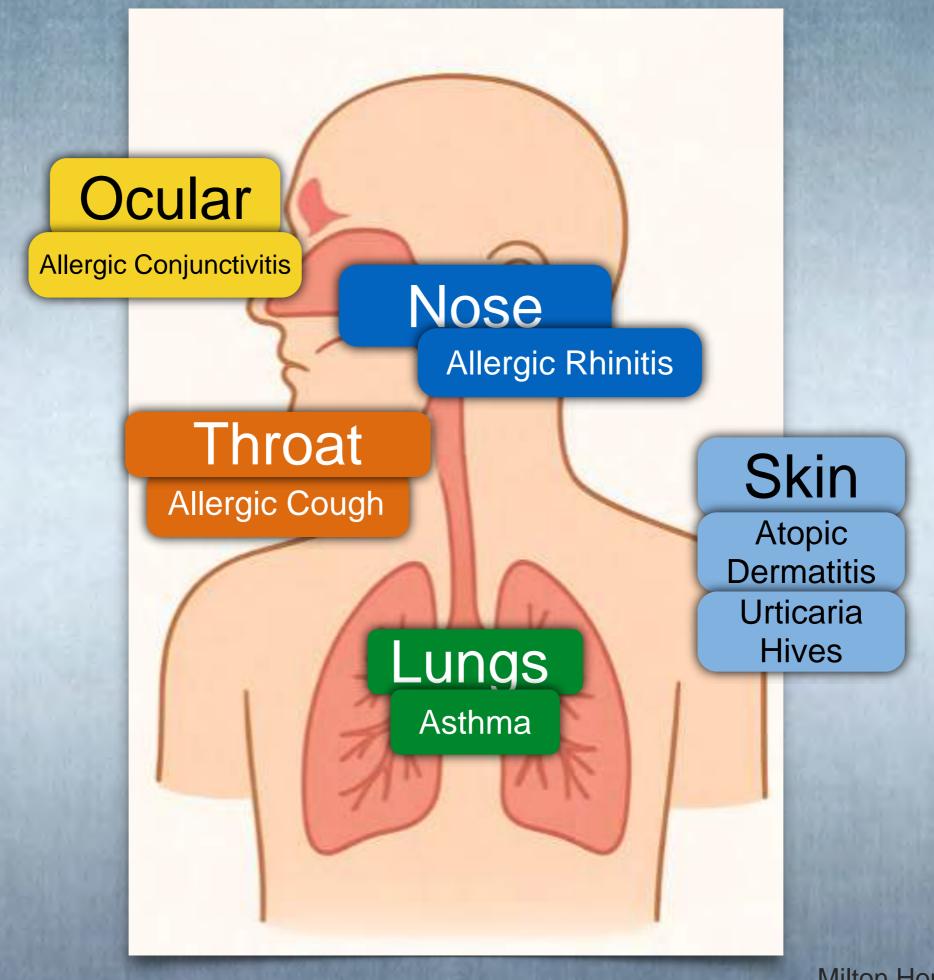












#### Sprays



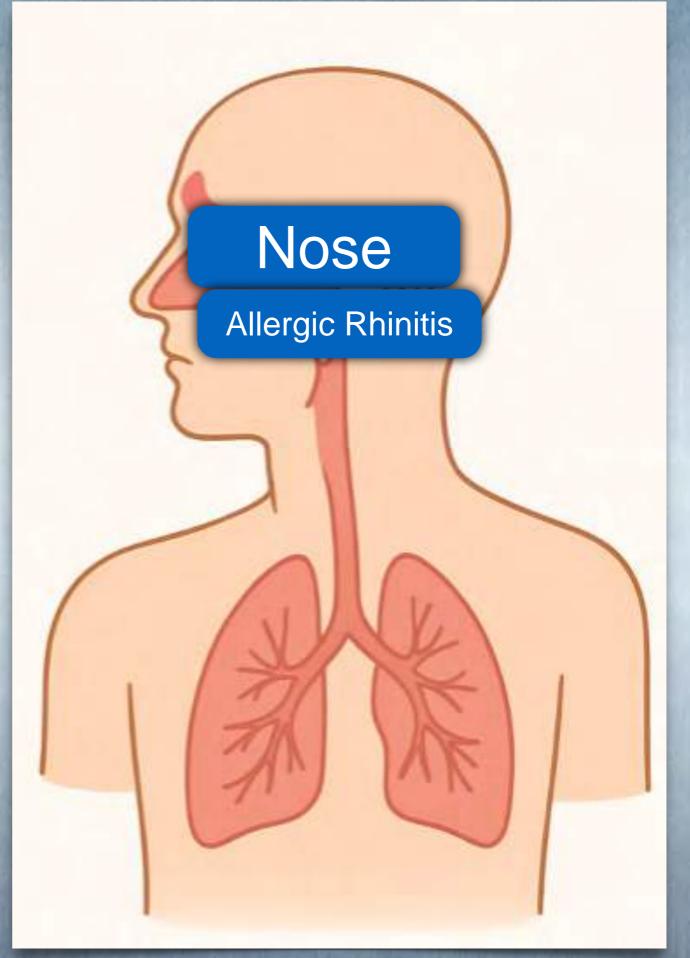






#### Saline rinses





Milton Hom, OD, FAAO.

### Treatment





### Navage



#### Navage Nasal Care Starter Bundle: Navage Nose Cleaner and 20 SaltPod Capsules

Visit the Navage Store

\*\*\* \* 10,732 ratings | 249 answered questions

Price: \$99.95 (599.95 / Count) Vprime & FREE Returns

Get \$125 off: Pay \$0.00 upon approval for the Amazon Business Prime Card. Terms apply.

#### Style: Standard packaging

Brand Navage

Ingredients Sodium chloride (purified sea salt) and purified

water.

Item Form Capsule

Package Type Box

Age Range

Kid

(Description)

- See more

CONTRACTOR PROPERTY.

#### About this item

- Your NOSE is the body's AIR FILTER, the first line of defense against airborne germs and allergens. Now you can keep your nose clean with easy-to-use Naväge nasal rinsel
- Naväge uses POWERED SUCTION to FLUSH OUT allergens, germs, dirt, and mucus. Naväge is the world's ONLY nose cleaner with powered suction. You'll love that clean nose feeling!
- For fast, all-natural relief from allergies and sinus congestion –
   WITHOUT DRUGS! Naväge operates only with genuine Naväge SaltPod rapsules.
- Bundle includes Naväge Nose Cleaner, 20 Navage SaltPods inside the box, 1 pair of Standard Nose Pillows, and batteries. \$109.95 if purchased separately. You save \$10 (9%)!
- Make good NASAL hygiene, YOUR new normal. CLEAN NOSE, HEALTHY LIFE!

### Truth or Tale?

Use a nasal rinse daily



62% lower incidence of sinusitis after stopping Neti-pots

### Use nasal irrigation no more than 1-3 weeks

Nsouli TM, Schluckebier CD, McSorley-Gerard EJ, et al. Long-term use of nasal saline irrigation: harmful or helpful? Ann Allery Asthma Immunol 103(suppl 3):A3-A146, 2009. (Abstracts of the 2009 annual meeting of the American College of Allergy, Asthma, and Immunology, Miami, FL, November 5-10, 2009.)

http://www.webmd.com/allergies/guide/neti-pot-nasal-irrigation-pros-and-cons? page=2



"The nasal mucus...contains very important immune elements that are the first line of respiratory defense against infections"

Talal Nsouli, MD

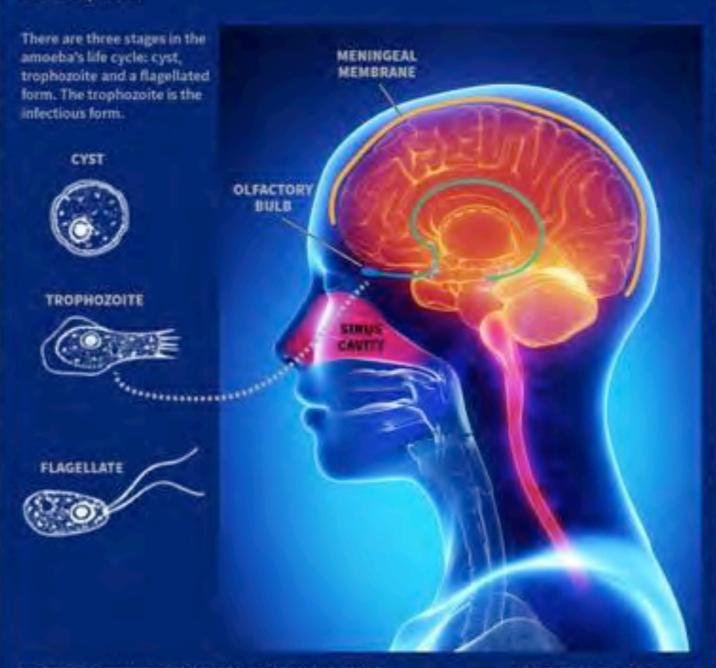
Nsouli TM, Schluckebier CD, McSorley-Gerard EJ, et al. Long-term use of nasal saline irrigation: harmful or helpful? Ann Allery Asthma Immunol 103(suppl 3):A3-A146, 2009. (Abstracts of the 2009 annual meeting of the American College of Allergy, Asthma, and Immunology, Miami, FL, November 5-10, 2009.)

http://www.webmd.com/allergies/guide/neti-pot-nasal-irrigation-pros-and-cons? page=2



#### **BRAIN-EATING AMOEBA**

Naegleria fowleri is a microscopic amoeba that lives in warm, fresh waters. It can enter the nose and pass through the sinus membranes into the olfactory bulb, reproduces by fission and spreads throughout the brain. The amoeba consumes brain tissue, causes swelling of the brain and finally death.



SOURCES: SHUTTERSTOCK/CLIPAREA, STANFORD UNIVERSITY

KARL TATE / C LiveScience.com

### Case Summary

- Jason, 39-year-old CPA with persistent nasal congestion.
  - Symptoms: "Can't breathe through my nose at night—wakes me up." Morning stuffiness, post-nasal drip
- - Current OTC: Loratadine daily
  - Triggers: Office pollen, scented candles, window open at night

### Anti-histamines

# Not all antihistamines are created equal. Choose wisely.

### Drowsiness ranking: The trade-off between efficacy and sedation











### Anti-histamines

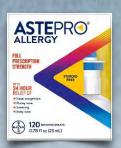
Most effective

Most drowsiness

Least effective

Least drowsiness

#### Sprays









#### Saline rinses



### Oral anti-histamines

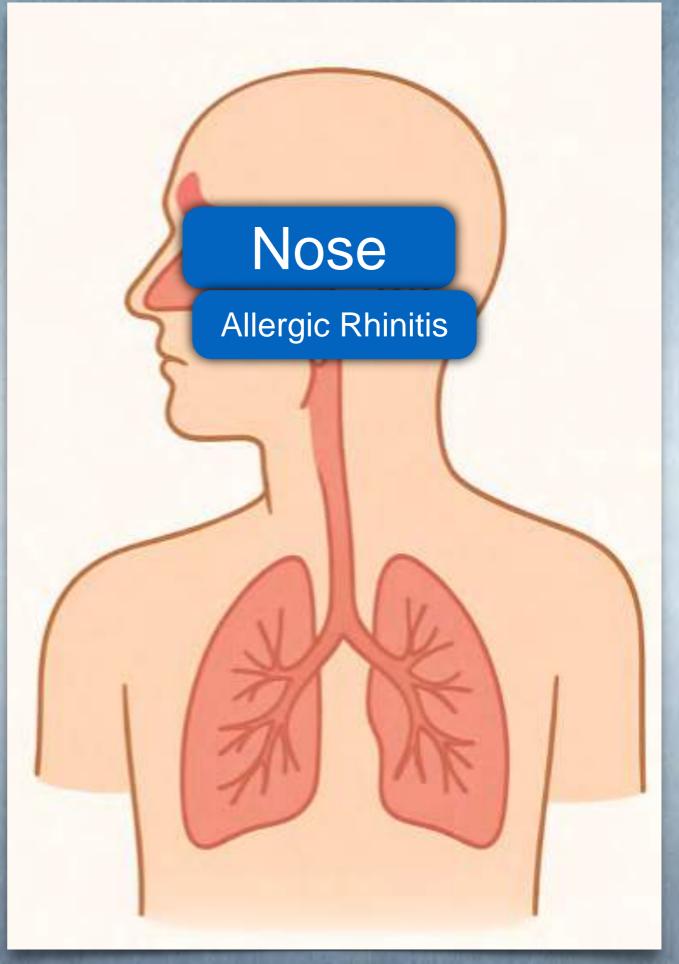












# Case Vignette: Trick or Trigger: Allergy in Fall

## Case Summary

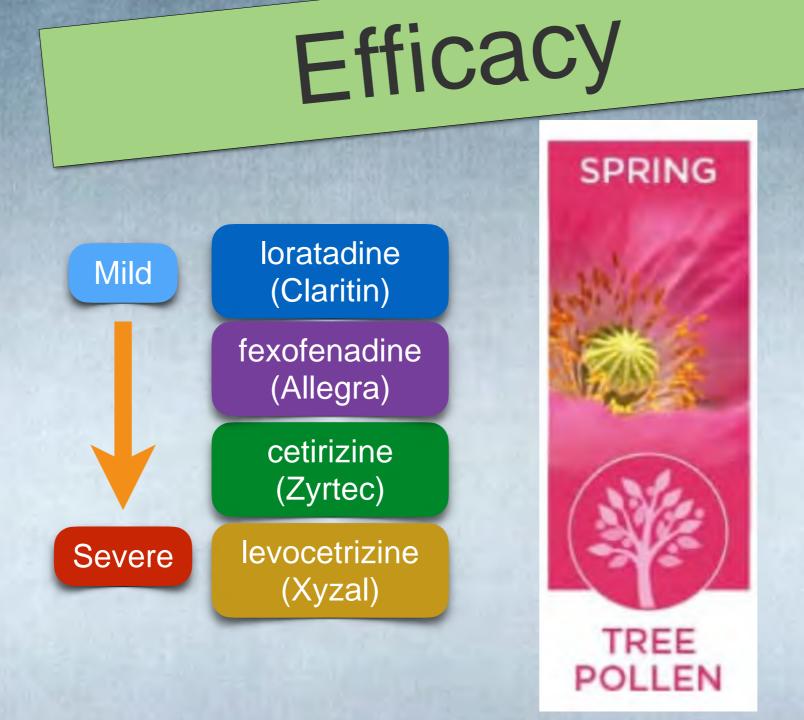
- James, 29-year-old software developer
- Complaints: Sneezing, congestion, post-nasal drip (Sept Oct)
- Reports chest tightness at night (mild asthma history)
- Current meds: Loratadine
- No ocular complaints
- Lives near fields, ragweed exposure

## Case Summary

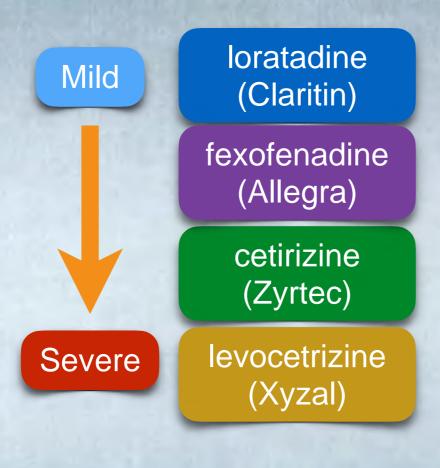
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### SEASONAL ALLERGIES



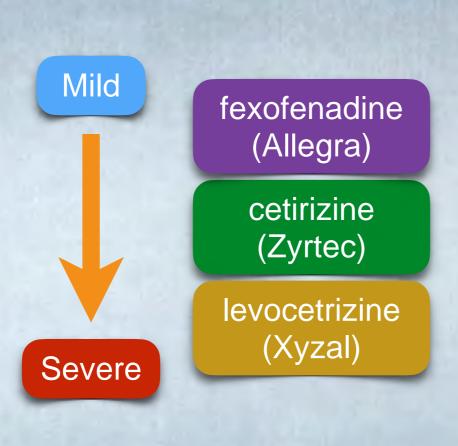






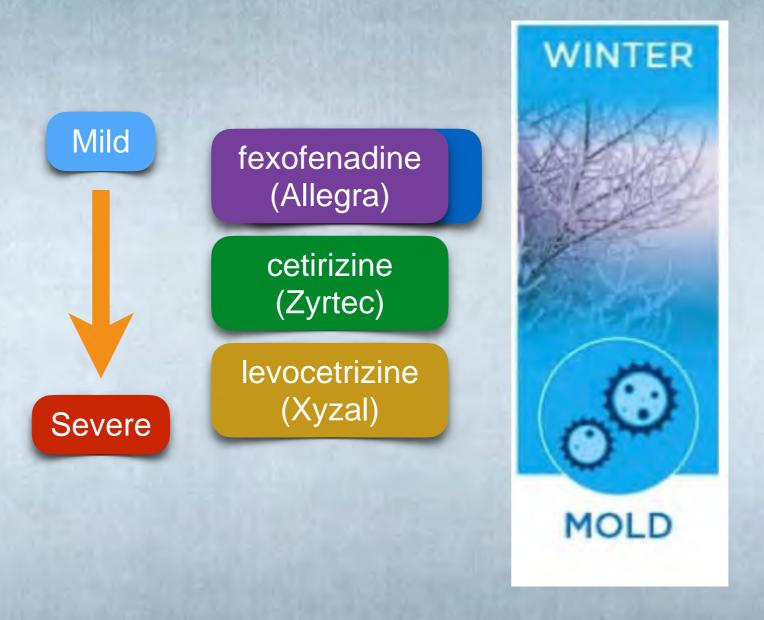


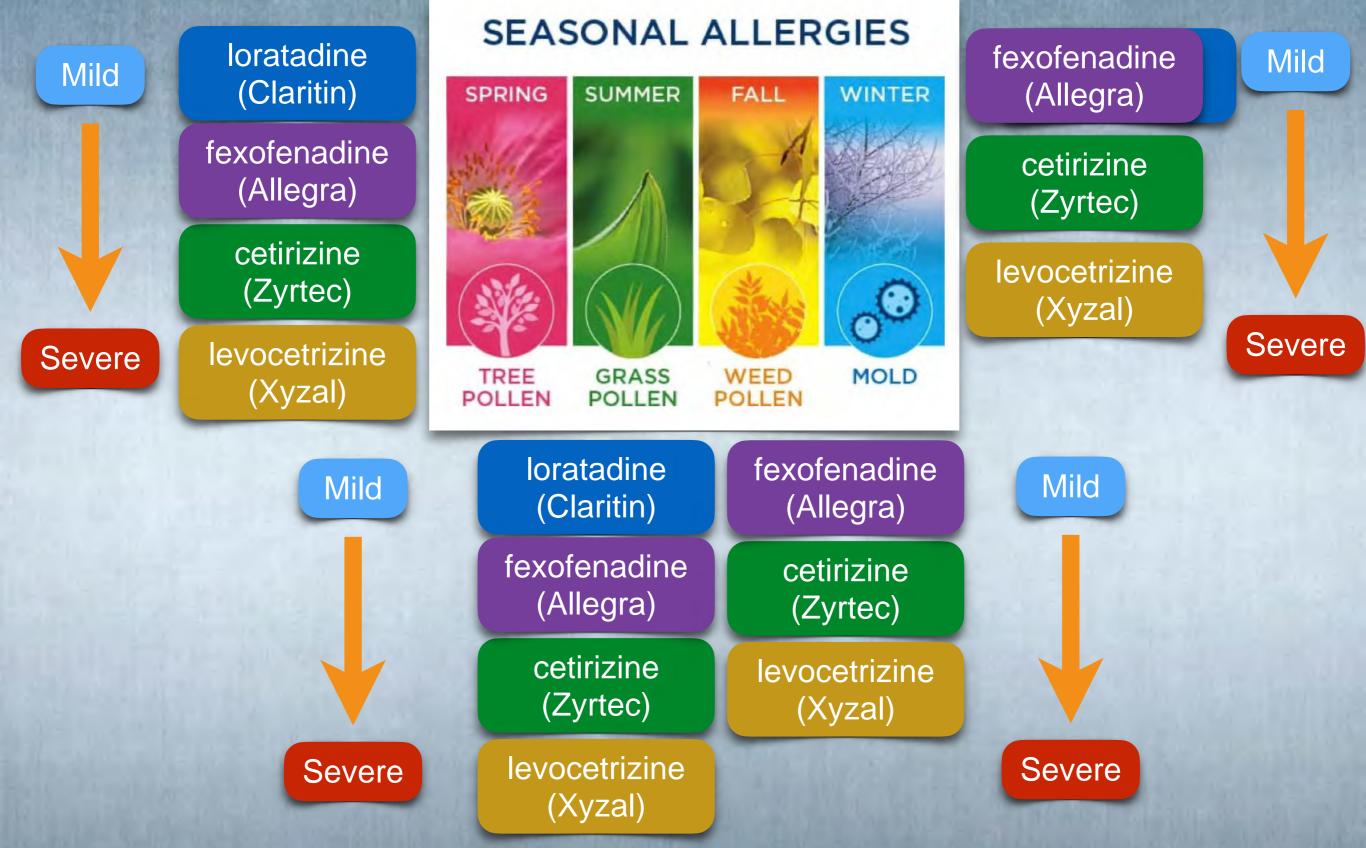












## Rotate anti-histamines

"Loratadine (Claritin) weak against ragweed and mold"

Rotate to a different antihistamine (especially Fall and Winter if using (Claritin) loratadine)

Day, James H. et al. Cetirizine, loratadine, or placebo in subjects with seasonal allergic rhinitis: Effects after controlled ragweed pollen challenge in an environmental exposure unit Journal of Allergy and Clinical Immunology, Volume 101, Issue 5, 638 – 645 McGill A. The Best Antihistamines for Mold Allergies: Allegra vs Zyrtec vs Claritin vs Xyzal vs Benadryl

## Case Summary

- James, 29-year-old software developer
- Complaints: Sneezing, congestion, post-nasal drip (Sept Oct)
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- Current meds: Loratadine
- No ocular complaints
- Lives near fields, ragweed exposure

## Asthma

Primatene mist

0.125mg per spray inhalation epinephrine



Domingo C, Singh D. The Changing Asthma Management Landscape and Need for Appropriate SABA Prescription. Adv Ther. 2023 Apr;40(4):1301-1316. doi: 10.1007/s12325-022-02410-z. Epub 2023 Jan 30. PMID: 36715896; PMCID: PMC10070225.

"Primatene Mist...will offer suboptimal care for the treatment of asthma...none of the expert guidelines recommend the use...[of] Primatene Mist...to treat asthma"

"[NIH] recommends against the use...[it] has the potential for 'excessive cardiac stimulation."

American Lung Association

https://www.lung.org/media/press-releases/fda-approval-primatene#:~:text=CHICAGO, IL | November 9,,does not prevent asthma episodes.

"We know that the No. 1 reason 10 people die from asthma daily is due to lack of control and overuse of quick-relief medication"

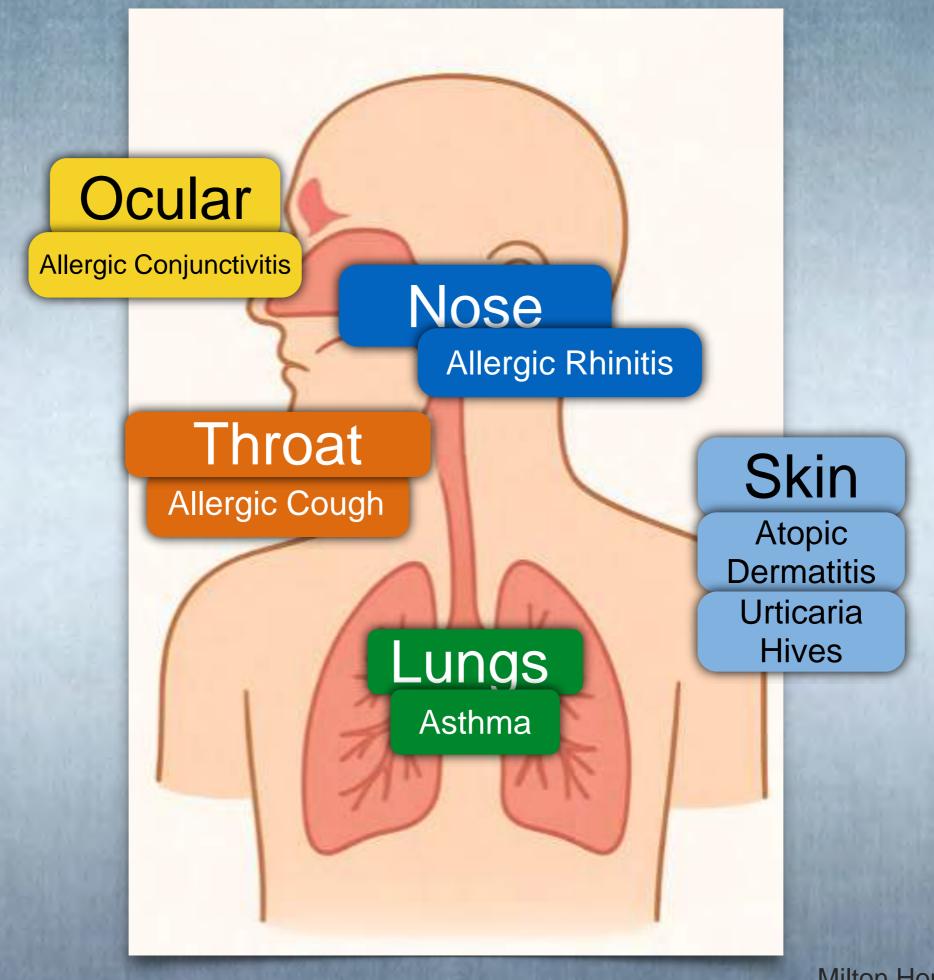
~Tonya Winders, President & CEO at Allergy & Asthma Network

https://www.jaxallergy.com/primatene-mist-otc-caution/

"Asthma is not a 'do-it-yourself' disease that you can treat yourself with OTC medication."

~Bradley Chipps, MD, ACAAI President

https://www.jaxallergy.com/primatene-mist-otc-caution/

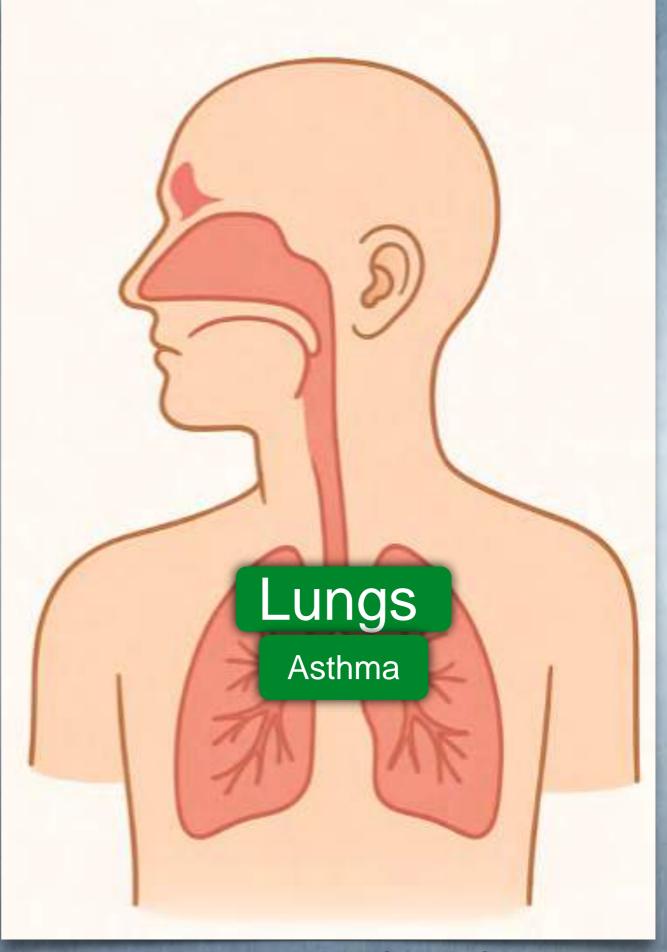


### Prescribed Inhalers



Primatene mist emergency use



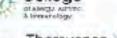


Milton Hom, OD, FAAO.

### Allergy Man

### Respiratory Treatments







800.508.4403 - Allersy Astron Betweek are in control of a special and a

VIATRIS

Blopharma

SABA and ICS CONTAINS SABA IN TELECOPORTY INSURES AFT OFFI

Q-ASTI MA @-corn

#### SHORT-ACTING BETA2-AGONIST (SABA) BRONCHODILATORS REprogramments of all representative of the property of the second second property of the second property of t

Albutarel Sulfate Inhalation Solution L58.12,23mg 3 mL 00















Appenex" 1.25 mg 3 mL regitation. hydrosalaride lakeleten salatina 000









#### INHALED CORTICOSTEROIDS (ICS) reduce and proved ewaling of all was those, they do not reliable audition symptoms of coupling, whose ling or absolute reas of branch





















#### LONG-ACTING BETA2-AGONIST (LABA) BRONCHODILATORS

15 mg; 2 m. erlanditiva terinde chardwign adiction. 00











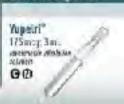












#### COMBINATION MEDICATIONS











Stietto"

Easpimat\*

25/25 Teg.

ard alaminot

DE G

Ediones branco













#### contain LAB4 and long-acting museum nic an agonist (LAMA)

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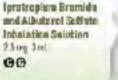








#### eight SABA and good tracking this carried antager ist (SAMA). Combivent<sup>®</sup> Ross irred."



#### BIOLOGICS larged colla and pathways thet considerway influence (co.) and the rejection or 19



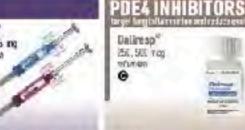
















0



Zafirtukast 10, 20 mg 0



@®®

Reviewed Av Dennie W. Harry D.

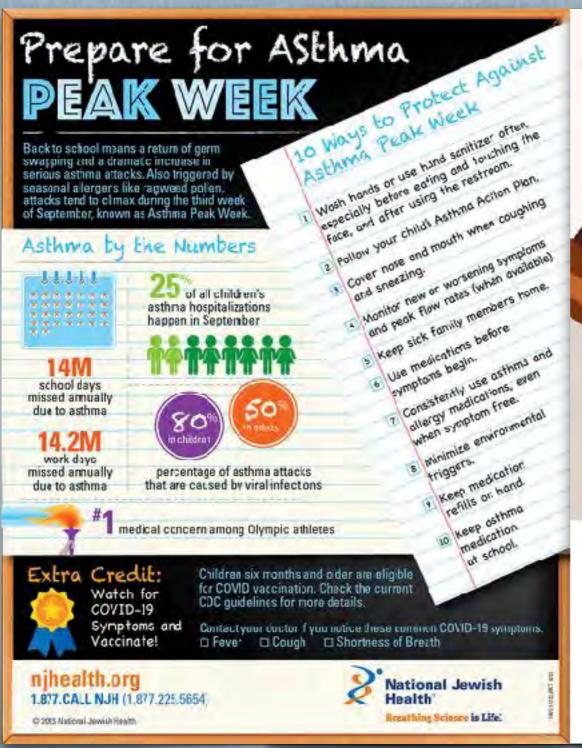
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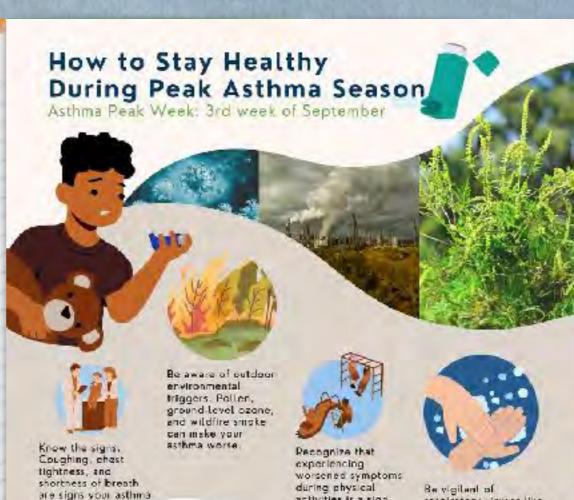
# Have you heard of Asthma Peak Week?











activities is a sign

that your asthma

control.

may not be under

#### Use these tips to protect yourself and your family.

may be getting

WEIFSE.

- 1. Work with your healthcare provider to create an asthmaaction plan and take your inhaler or other medication as prescribed.
- 2 Stay up to date on immunizations and refit! all asthmamedications before school starts so you don't run out.
- 3. Support your immune system by getting enough sleep, eating healthy, and managing your stress.
- 4. Keep your child's bedroom clean and free of dust and mold, and consider a HEPA air purifier.
- 5. Check the weather and air quality forecast before planning. outdoor activities, and stay indoors when there is extreme heat. or excessive smake from wildfres.



respiratory viruses like

the common cold, flu,

These can exacerbate

especially during peak asthma season.

and even COVID 19.

asthma symptoms.

### Asthma

Asthma Peak Week: 3rd week of September 25% of all asthma hospitalizations Ragweed highest levels Flu season starts Seasonal weather change Back to school Mold School stress

## Pollmageddon

Asthma Peak Week = Allergy Peak Week

"Start taking med[s] around St. Patrick's Day" "Now start around Valentine's Day"

Stanley Fineman, MD Allergist, Atlanta

# Case Vignette: Feline Fine Until the Swelling Starts

## Case Summary

- Patient: Angela, 37-year-old yoga instructor
- Eyelid swelling and itchy eyes after visiting a friend with cats
- Hives on arms and torso
- Reports mild tearing and conjunctival itch, no discharge
- Using Ioratadine PRN, feels it's not working
- Symptoms start ~6 hours post-exposure, last
   1–2 days
- No asthma or systemic symptoms

## Case Summary

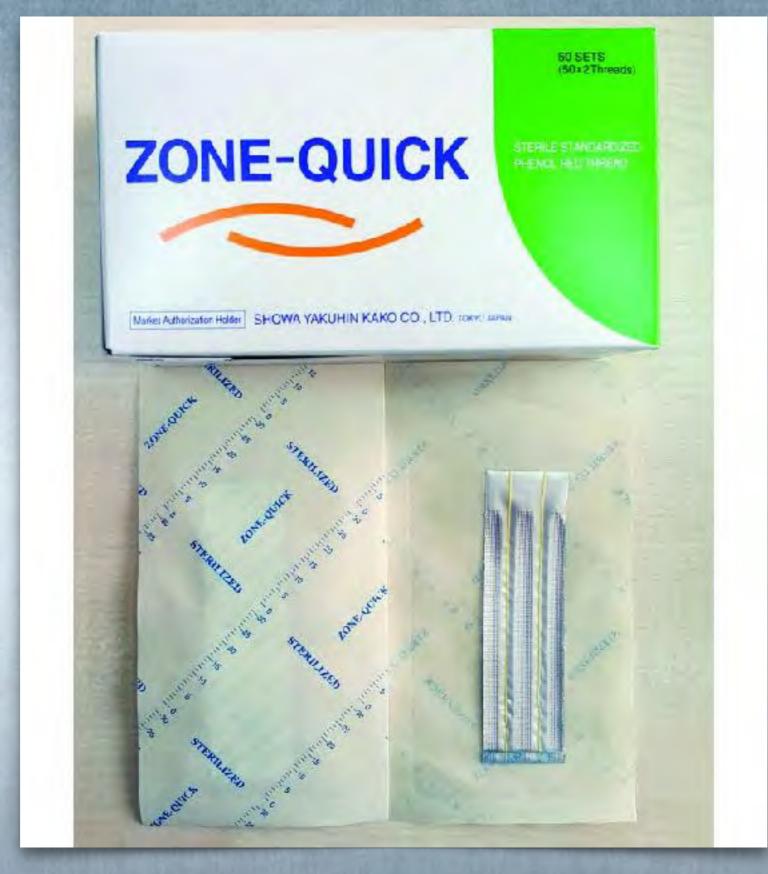
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## Topical anti-histamines

### Topical anti-histamines

### OTC Allergy Eye Drops: Comparison

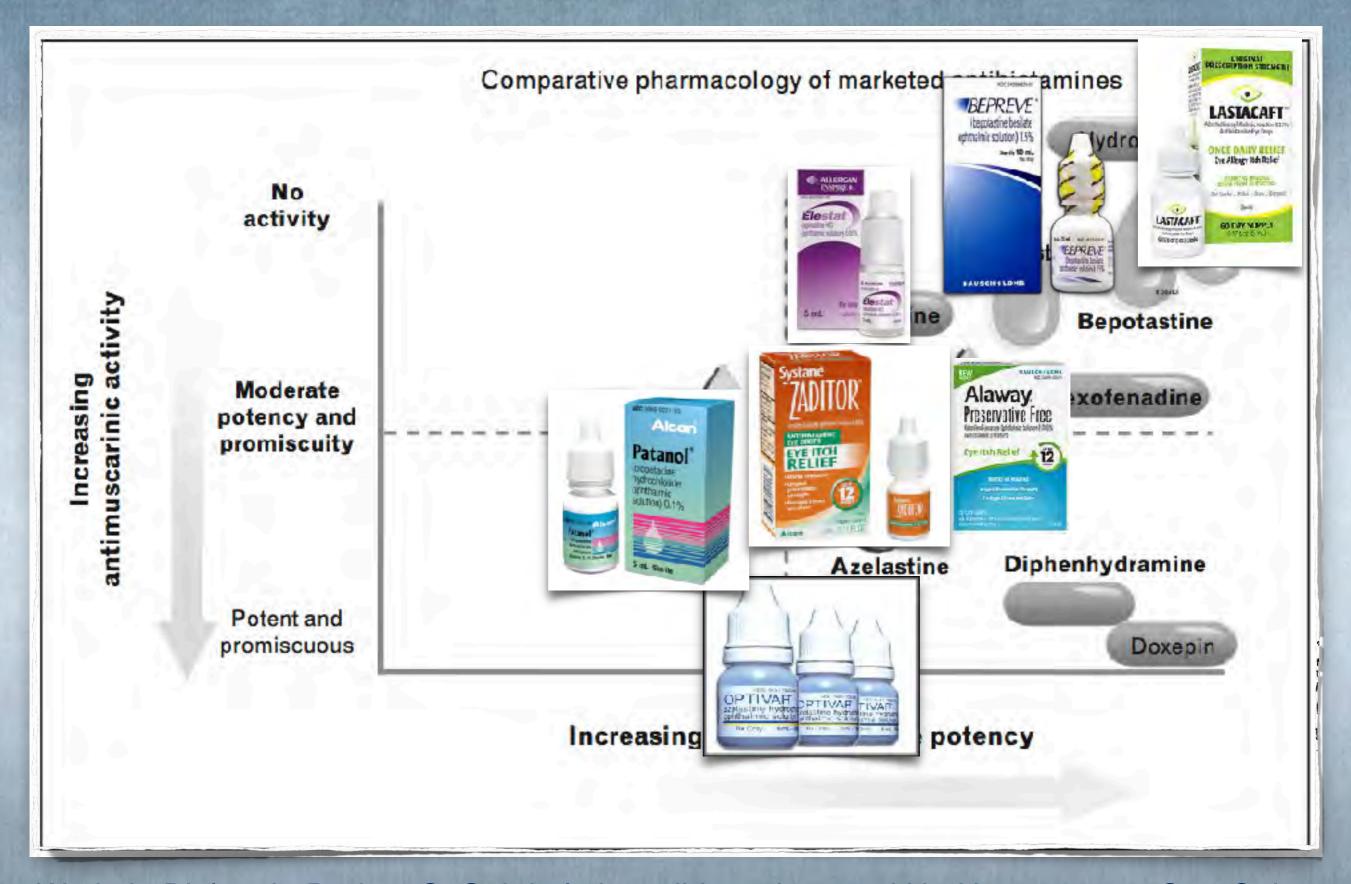
Agent (OTC in US)	Receptor Target	Onset	Duration	Side Effect Profile
Ketotifen (Zaditor, Alaway)  O H <sub>1</sub> antagonist Mast cell stabilizer	H <sub>1</sub> mast cell stabilizer	15-30 min	16-24 hrs	Generally well tolerated, Mild burning/itching risk in some studes
Olopatadine (Rx in US UOC olterwise)  O H <sub>1</sub> antagonist Mast cell stabilizer	H <sub>1</sub> mast cell stabilizer		Upto 24 h (once dally)	Mild stinging: lower dryness effect compared to Olopatadine
Alcaftadine (Lastacaft 0.25%)  O H <sub>1</sub> antagonist Mast cell atabilizer, reported H <sub>2</sub> /H <sub>4</sub>	H <sub>2</sub> H <sub>1</sub> repobeot H <sub>2</sub> /H <sub>4</sub> activity	15 min	Very low dryness risk	Mild burning/ instillation site drymsofort
Pheniramine + Naphazoline (Naphcon-A, Opcon-A, Visine-A) • No receptor effect (dilution only)	No receptor effect (dilution only)	Immediate	Short (minutes)	Rebound hyperemia Vasoconstrictor- induced dryness



Villareal AL, Farley W, Pflugfelder SC. Effect of topical ophthalmic epinastine and olopatadine on tear volume in mice. Eye Contact Lens. 2006 Dec;32(6):272-6. doi: 10.1097/01.icl.0000224360.10319.b1. PMID: 17099387.

## "After 2 days of treatment, epinastine-treated mice showed greater mean tear volumes than olopatadine-treated mice"

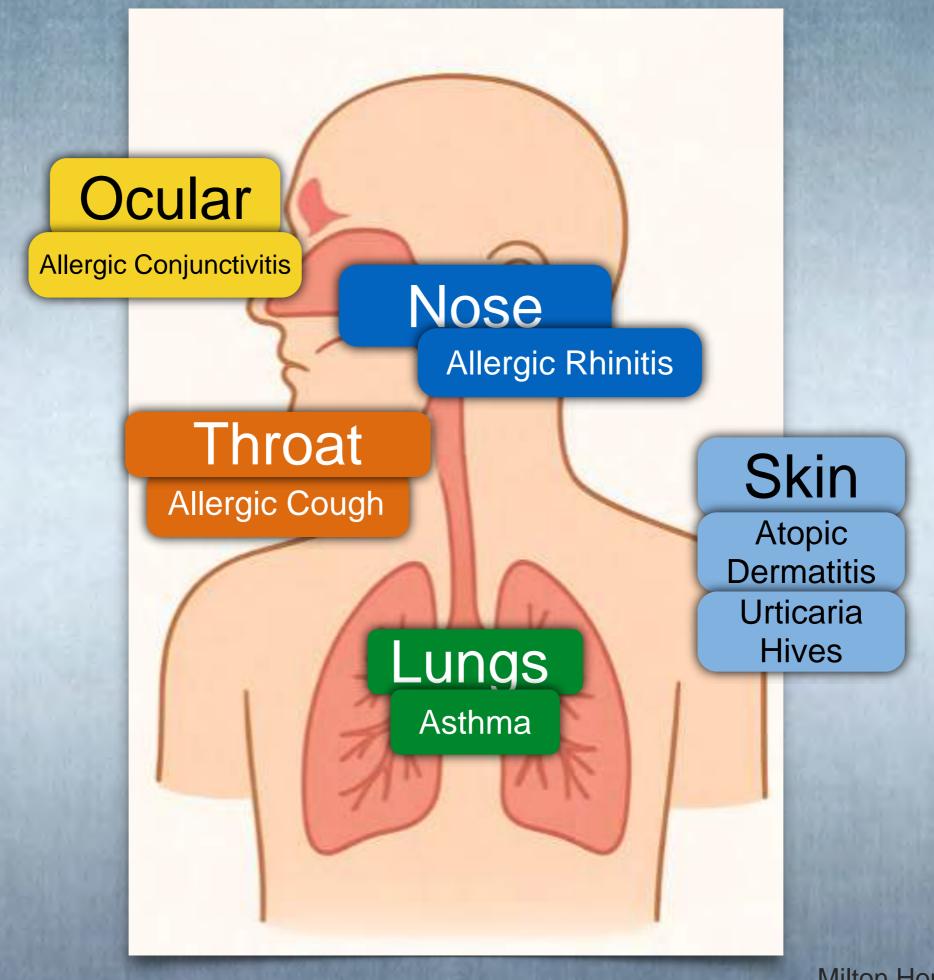
Villareal AL, Farley W, Pflugfelder SC. Effect of topical ophthalmic epinastine and olopatadine on tear volume in mice. Eye Contact Lens. 2006 Dec;32(6):272-6. doi: 10.1097/01.icl.0000224360.10319.b1. PMID: 17099387.



Wade L, Bielory L, Rudner S. Ophthalmic antihistamines and H1-H4 receptors. Curr Opin Allergy Clin Immunol. 2012 Oct;12(5):510-6. doi: 10.1097/ACI.0b013e328357d3ba. PMID: 22918191.



Wade L, Bielory L, Rudner S. Ophthalmic antihistamines and H1-H4 receptors. Curr Opin Allergy Clin Immunol. 2012 Oct;12(5):510-6. doi: 10.1097/ACI.0b013e328357d3ba. PMID: 22918191.



#### **Topical** anti-histamines



















Allergic Conjunctivitis

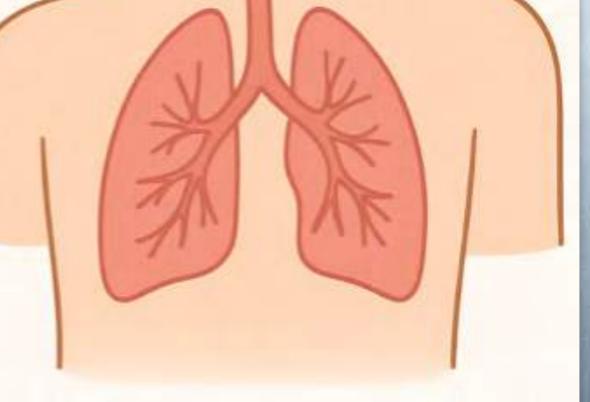


#### Loteprednol



cyclosporine





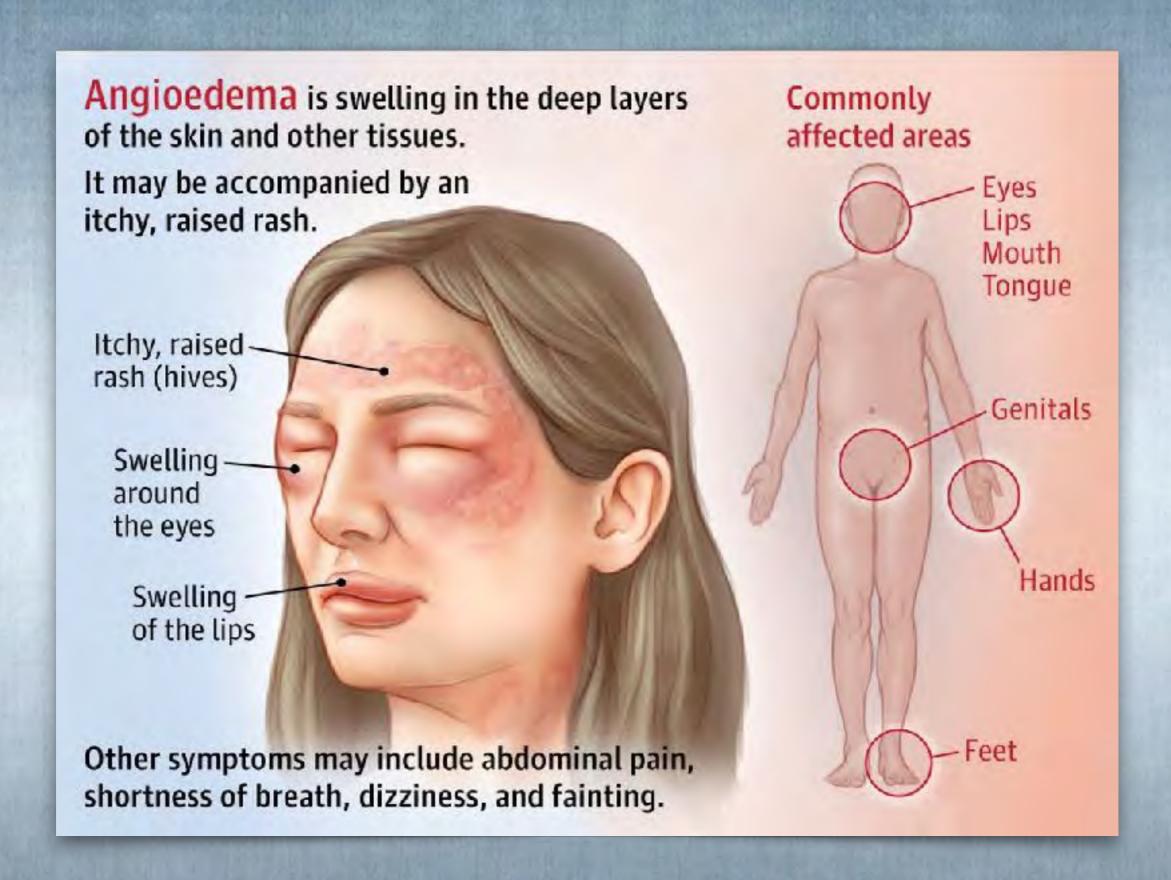
## Case Summary

- Patient: Angela, 37-year-old yoga instructor
- Eyelid swelling and itchy eyes after visiting a friend with cats
- Hives on arms and torso
- Reports mild tearing and conjunctival itch, no discharge
- Using loratadine PRN, feels it's not working
- Symptoms start ~6 hours post-exposure, last
   1–2 days
- No asthma or systemic symptoms

### Urticaria Hives Rash



https://www.verywellhealth.com/rash-around-eyes-8622562



#### H1 histamine receptor

### Oral anti-histamines









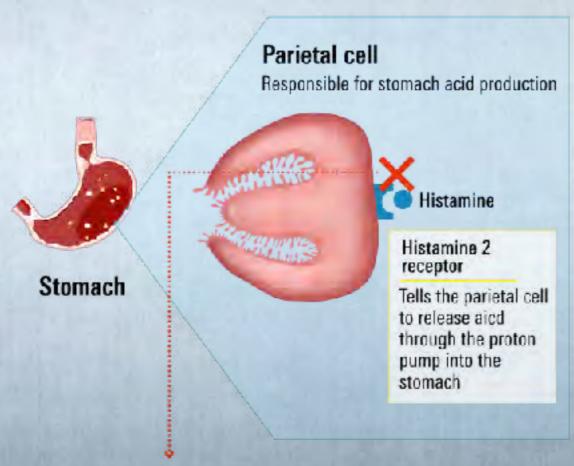
#### H2 histamine receptor

"Fifteen per cent of the histamine receptors in the skin are H2-receptors"

Fedorowicz Z, van Zuuren EJ, Hu N. Histamine H2-receptor antagonists for urticaria. Cochrane Database Syst Rev. 2012 Mar 14;2012(3):CD008596. doi: 10.1002/14651858.CD008596.pub2. PMID: 22419335; PMCID: PMC7390502.

### Treatment

#### How H2 Blockers Work



H2 blockers (H<sub>2</sub>RAs) block histamine from binding to the histamine 2 receptor. This prevents the histamine 2 receptor from sending a signal to release acid into the stomach.

#### Famotidine H2 histamine receptor



## Treatment

- 1. Start with 2G Anti-histamine 2x day
- 2. Can increase to 4x day
- 3. Add famotidine 2x day
- 4.Refer

### Oral anti-histamines















## Treatment

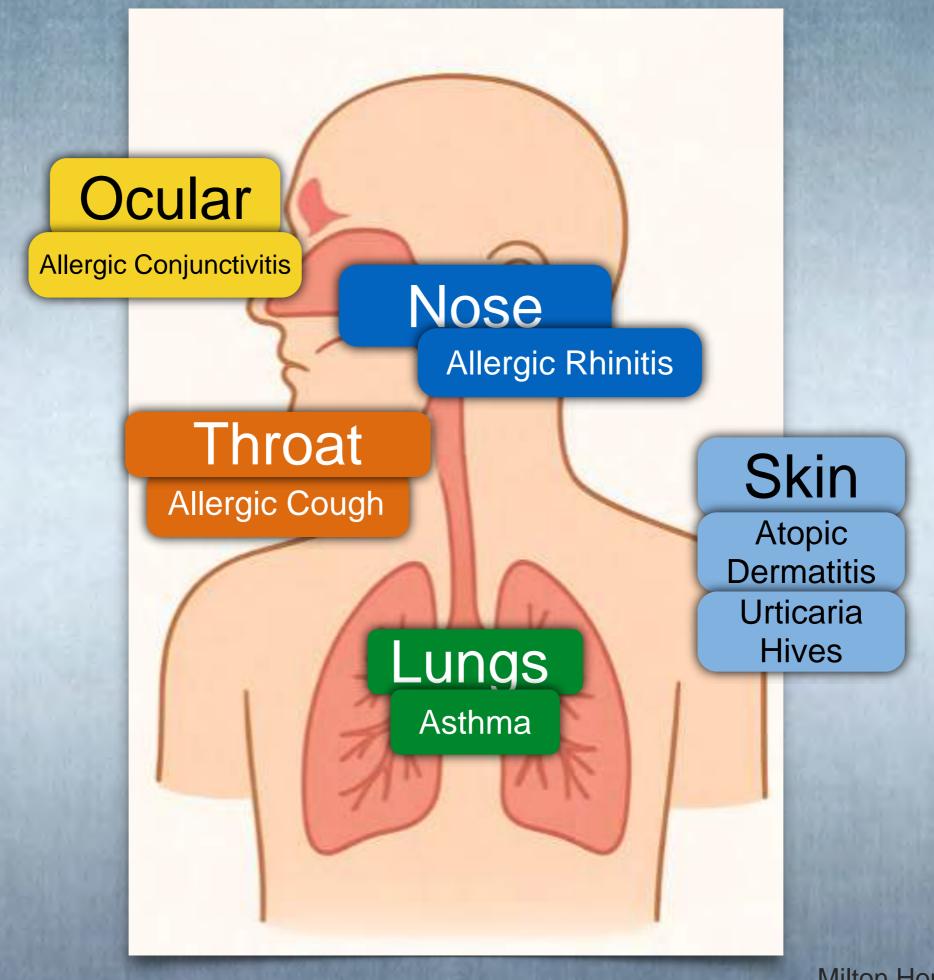
1.Avoidance2.Lubricate3.Oral anti-histamines4.Refer Red flags(breathing problems, etc)

Lubricate
Dryness triggers
Pramoxine









#### Avoidance

#### Lubrication







### Oral anti-histamines



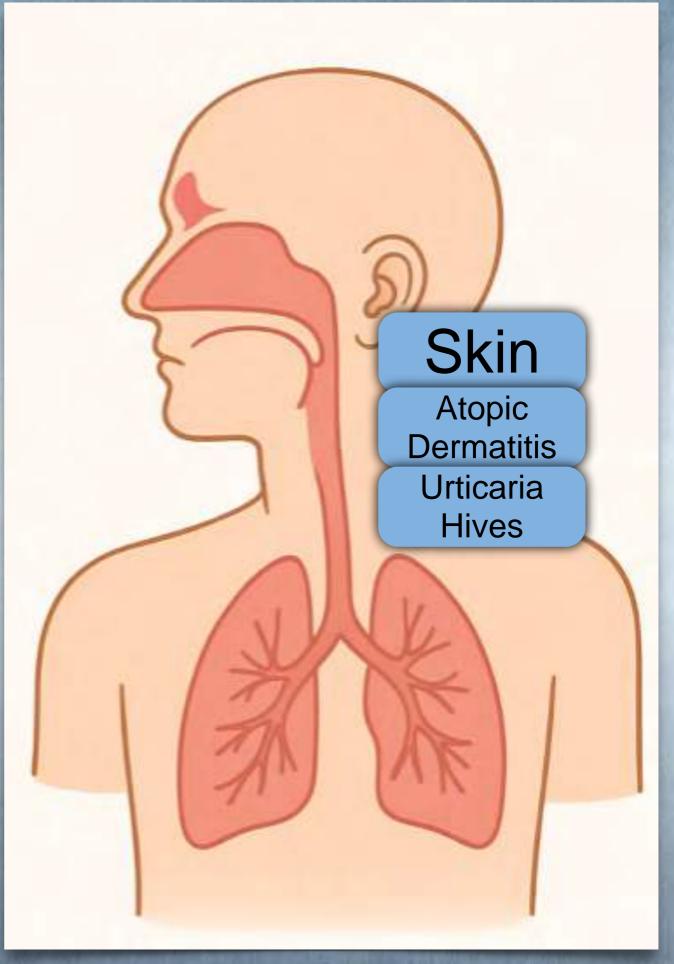






#### Oral anti-histamines + Pepcid





## Case Summary

- Patient: Angela, 37-year-old yoga instructor
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- Symptoms start ~6 hours post-exposure, last
   1–2 days
- No asthma or systemic symptoms

## Do you love cats?

A. Yes

B.No

C.Prefer not to say

(do not want to upset my significant other)

Fel d-l glycoprotein:

Secreted by sebaceous glands

Found in fur, urine, saliva

Can remain airborne for months

10x smaller than pollen

amazon \$22.99



Washing/baths only effective for 3 hours

Males neutered much lower (5.46 to 1.28)

HEPA vacuum + HEPA room filtration works, each alone has diminished effect

# Hypoallergenic cats

Breed	Fel d 1	Coat	Notes	
Siberian	Lower	Long	Very low Fel d 1	
Balinese	Lower	Long	"Hypoallergenic" Siamese	
Oriental Shorthair	Lower	Short	Related to Siamese	
Russian Blue	Lower	Short	Anecdotal	
Devon Rex	Possibly Low	Very Short	Minimal grooming	
Cornish Rex	Possibly Low	Down Coat (soft)	Similar to Devon Rex	

Beheshti R, Huang P, Le M, Peterson R, Tversky JR. Should the Cat Stay Home? A Guide to Managing Cat Allergies. Allergies. 2025; 5(2):12.

# Hypoallergenic cats

"Fabrics with an average pore size of 6 μm or less blocked cat allergen (Fel d 1)"

Vaughan JW, McLaughlin TE, Perzanowski MS, Platts-Mills TA. Evaluation of materials used for bedding encasement: effect of pore size in blocking cat and dust mite allergen. J Allergy Clin Immunol. 1999 Feb;103(2 Pt 1):227-31. doi: 10.1016/s0091-6749(99)70495-1. PMID: 9949312.

# Hypoallergenic casings

Type Pore size		Where to Buy	
National Allergy	2.6 microns	Amazon	
Mission:Allergy	2 microns	Amazon  "Dust Mite and Allergen Proof"	

Vaughan JW, McLaughlin TE, Perzanowski MS, Platts-Mills TA. Evaluation of materials used for bedding encasement: effect of pore size in blocking cat and dust mite allergen. J Allergy Clin Immunol. 1999 Feb;103(2 Pt 1):227-31. doi: 10.1016/s0091-6749(99)70495-1. PMID: 9949312.

Intervention	Rhinitis Reduction	Asthma Reduction	Allergen Reduction	Notes
Bathing Cat	10-30%	5-20%	25-50%	Lasts few hours
HEPA filters	20-40%	15-30%	50-80%	Combine with HEPA vacuum
HEPA Vacuum	5-15%	5-10%	10-30%	Combine with HEPA filter
Immunotherapy	60-80%	50-80%	N/A	High efficiency
Removing Cat	50-80%	40-60%	90-100% (20 months)	High efficiency Poor compliance

Also recommended: Male neutered, Mattress/pillow

Beheshti R, Huang P, Le M, Peterson R, Tversky JR. Should the Cat Stay Home? A Guide to Managing Cat Allergies. Allergies. 2025; 5(2):12.

Cat food?

"Feeding a diet with anti Fel d1 IgY [anti Fel d1 antibodies] significantly reduced the active Fel d1 on the hair of cats."

Satyaraj, Ebenezer, et al. "Reduction of active Fel d1 from cats using an antiFel d1 egg IgY antibody." Immunity, inflammation and disease 7.2 (2019): 68-73.



Winner Cat Care Category. Survey of 40,000 people by Kantar.

# Case Vignette: The Fall Hack Attack

## Case Summary

- Patient: Darius, 33-year-old warehouse manager
- Dry, hacking cough—worse at night
- No fever, chills, or mucus
- Mild runny nose and throat clearing
- No ocular signs or asthma
- Positive allergy history: dust mites, ragweed, cats
- Poor response to OTC cough suppressants

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## Allergic cough



## "with cough, it's an airway itch"

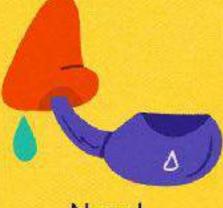
Gibson PG. Cough is an airway itch? Am J Respir Crit Care Med. 2004 Jan 1;169(1):1-2. doi: 10.1164/rccm.2310009. PMID: 14695099.

## Allergic cough

#### Treatment of Allergy Cough



**Antihistamines** 



Nasal rinse/irrigation



**Decongestants** 







## Allergic cough

"[Anticholinergic Tussin] blocks activity of the sphincter muscle and the ciliary muscle of the lens, affecting accommodation"



-Dharmendra J. Bhoola South Africa

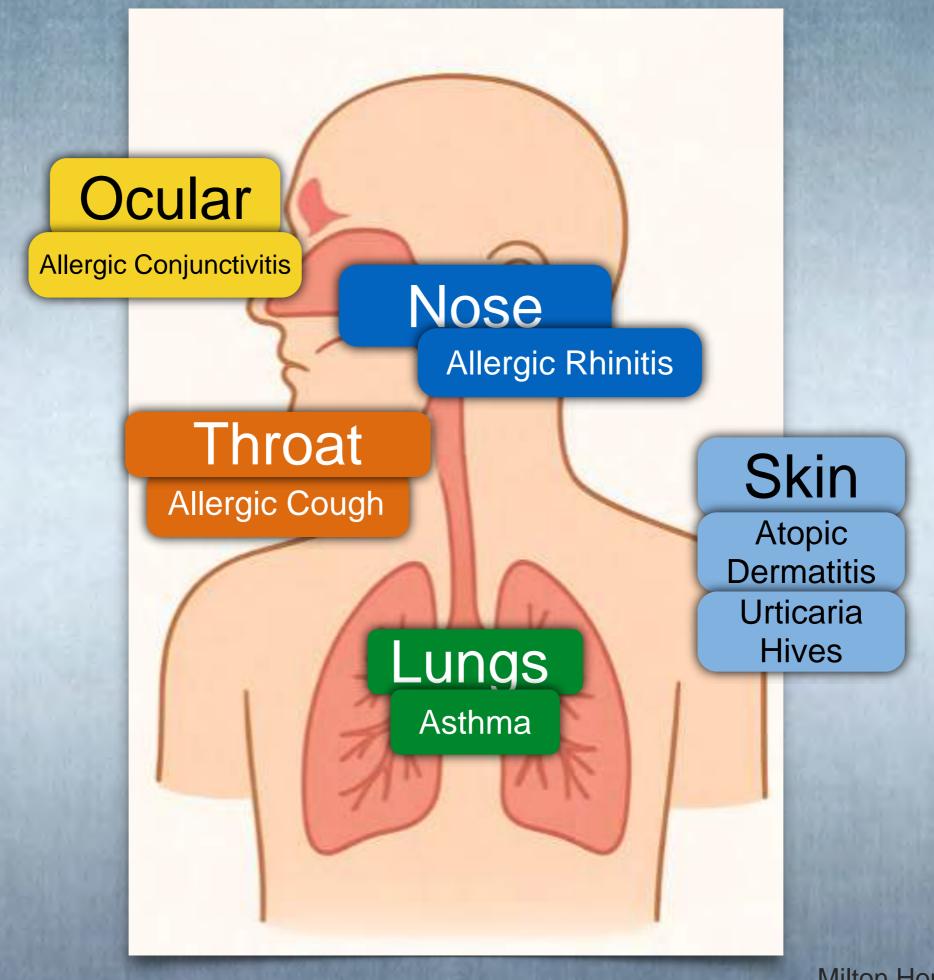
Cooper J. Patients need to know about ocular risks related to over-the-counter drugs PCON June 27, 2025

## Nin Jiom





https://www.amazon.com/NIN-JIOM-NATURAL-Soothing-Respiratory/dp/B001A5Z78O



#### Saline rinses



#### Sprays









### Oral anti-histamines







### Cough suppressants



#### Nin Jiom





## OTC Toolbox

Ocular

Topical anti-histamines

cyclosporine

Loteprednol

PF Artificial tears

Throat

Cough suppressants

Nin Jiom

Nose

**Sprays** 

Saline rinses

Lungs

Prescribed Inhalers

Primatene mist emergency use

Skin

Topical anti-histamines & steroids

Lubrication

Oral anti-histamines & Pepcid

Systemic

Oral anti-histamines

## OTC Tips



#### Oral anti-histamines









Do: Switch to stronger (claritin→zyrtec→ xyzal→benadryl)

> Don't: Use year round; rotate seasonally



Do: Use anti-histamine and cromolyn (if available)

Don't: Use Primatene as 1st line; only for emergencies

Do: Make asthma referrals



#### **Topical** anti-histamines











Do: Prescribe with PF artificial tears and dry eyes/steroids meds

Avoid drops with strong antimuscarinic dryness effects













Do: Preload meds Do: HEPA filter and HEPA vacuum

Don't: ignore red flags

(asthma, hives)

## Skin prick test



## thank you!

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