



### TRUE or FALSE?

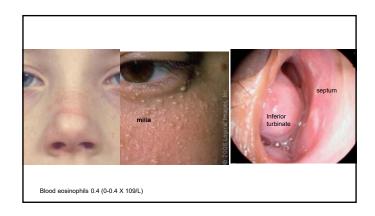
- Intranasal steroids are the first line for the treatment of rhinitis when moderate nasal congestion is present
- 2. Sublingual house dust mite immunotherapy reduces allergic rhinitis and asthma symptoms

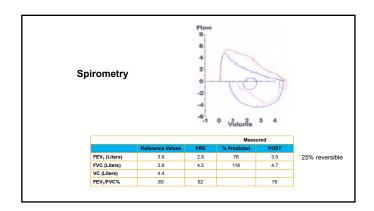
## 18 year old girl

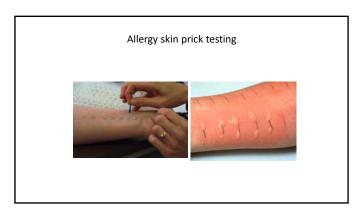
- Severe ear itching and nasal congestion in May and June but can occur anytime of year
- Peaches give her a very itchy throat if raw but not cooked
- Chest tightness with exertion and wakes with cough at least one night per week
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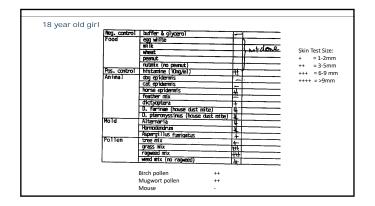
## 18 year old girl

- Tried oral antihistamines but got drowsiness
- Tried nasal steroids but got bleeding
- · Uses inhaled steroid when cough severe
- Uses salbutamol 2 puffs before exercises and every morning



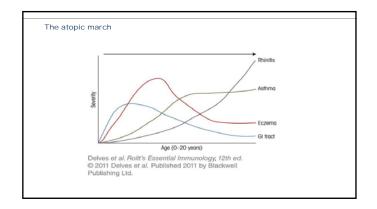


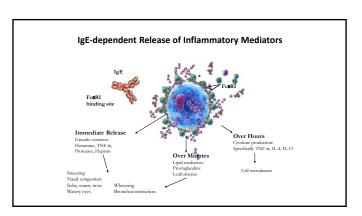


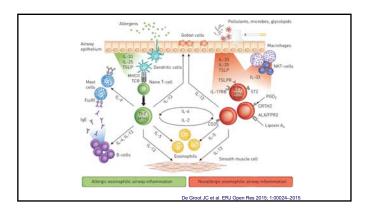


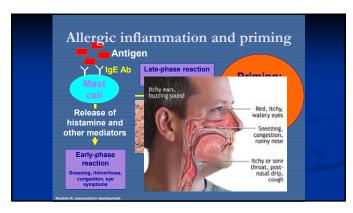
What do you think is causing her symptoms?

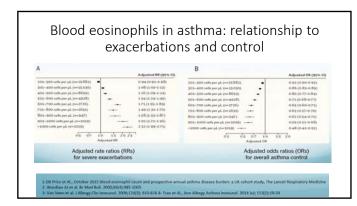
What are your next steps?

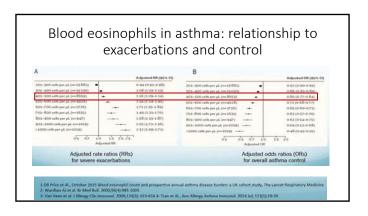










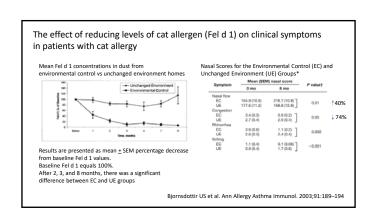


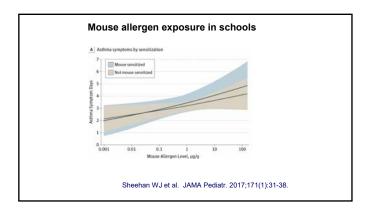
The effect of reducing levels of cat allergen (Fel d 1) on clinical symptoms in patients with cat allergy:

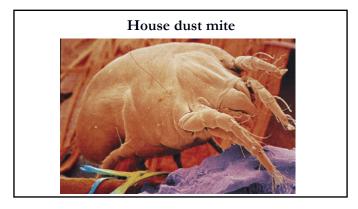
Only 31 of 219 initial volunteers completed the study once it was explained

Environmental Control Measures:

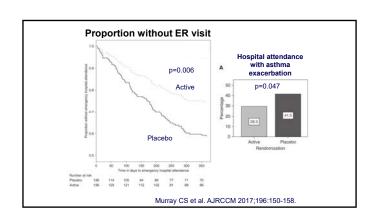
Wash all wall and floors at study entry.
Remove carpeting from bedrooms.
Remove upholstered furniture from bedrooms.
Close closets at all times when not in use.
Vacuum floors, carpets, and furniture weekly.
Apply tannic acid (3%) to carpeting and upholstered furniture every 2 months.
Wash bedding at 60° (130° f) weekly.
Replace old duvets and pillows with polyester-filled duvets and pillows for both patient and spouse.
Cover mattresses and pillows with impermeable covers, mop floor, and wet-wipe surfaces weekly.
Wash cat every 2 weeks.
Keep cat out of bedroom.
Sleep with bedroom windows open.

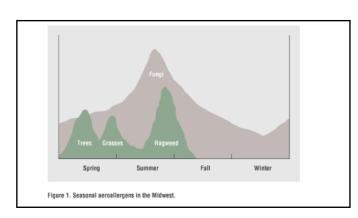




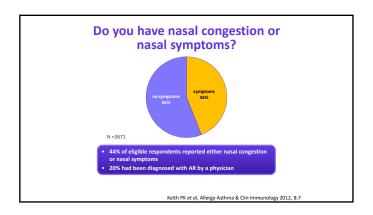


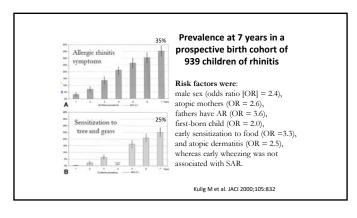
# Preventing Severe Asthma Exacerbations in Children A Randomized Trial of Mitte-Impermeable Bedcovers Clare & Marry <sup>1,12</sup>, Philip Fodom<sup>2</sup>, Helien Summer, Etabeth Shepley <sup>1,12</sup>, Advance Lustovic<sup>1</sup>, and Angela Simpson<sup>1,12</sup> Tobase of Network, Princip Fodom<sup>2</sup>, Helien Summer, Etabeth Shepley <sup>1,12</sup>, Advance Code, Shepper <sup>1,12</sup> Tobase of Network, Princip Fodom<sup>2</sup>, Helien Summer, Etabeth Shepley Shepper <sup>1,12</sup> Tobase of Network, Princip Fodom<sup>2</sup>, Helien Summer, Etabeth Shepley Shepper <sup>1,12</sup> Tobase of Network, Princip Fodom<sup>2</sup>, Helien Summer, Etabeth Shepper <sup>1,12</sup> Tobase of Network, Princip Fodom<sup>2</sup>, Helien Summer, Shepper <sup>1,12</sup> The Marry Helien Linked Rogiston and Chepterest of Princip Helien Shepper <sup>1,12</sup> Tobase October <sup>1,12</sup> Tobase October <sup>1,12</sup> • randomized, double-blind, placebo-controlled, parallel-group study of the effect of mite-impermeable bedcovers on the risk of severe asthma exacerbations in mite-sensitized children with asthma • Children 3 to 17 without dust mite covers, excluded premature • required admission to hospital with asthma American Journal of Respiratory and Critical Care Medicine Volume 196 Number <sup>1,12</sup> July 15 2017

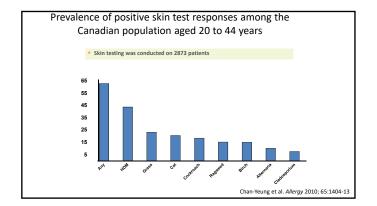


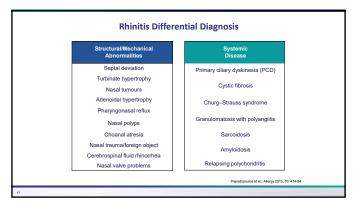


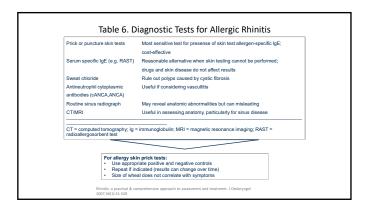
# Oral allergy syndrome Alder pollen: almonds, apples, celery, cherries, hazel nuts, peaches, pears, parsley, raspberry, strawberry Birch pollen: almonds, apples, apricots, avocados, bananas, carrots, celery, cherries, chicory, coriander, fennel, fig, hazel nuts, kiwlifruit, nectarines, parsley, parsnips, peaches, pears, peppers, plums, potatoes, prunes, soy, strawberries, wheat; Potential: walnuts Grass pollen: fig, melons, tomatoes, oranges, celery, peach Mugwort pollen: carrots, celery, coriander, fennel, parsley, peppers, sunflower Ragweed pollen: banana, cantaloupe, cucumber, green pepper, paprika, sunflower seeds/oil, honeydew, watermelon, zucchini, echinacea, artichoke, dandelions, honey (if bees pollinate with pollen from wild flowers), hibiscus or chamomile tea Possible cross-reactions (to any of the above): berries (blueberries, raspberries, etc.), citrus (oranges, lemons, etc.), grapes, mango, figs, peanut, pineapple, pomegranates, watermelon

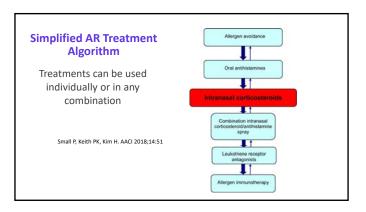






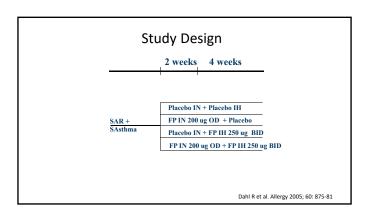


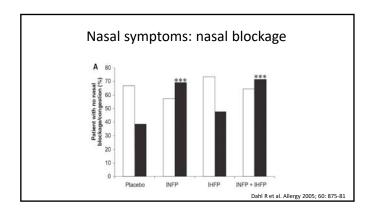


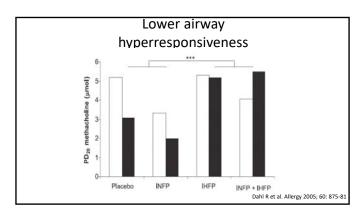


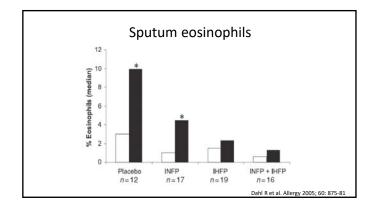
Intranasal and inhaled fluticasone propionate for pollen-induced rhinitis and asthma

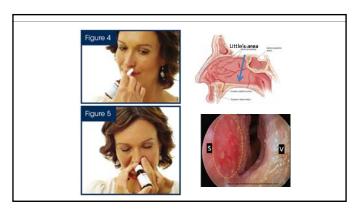
Dahl R et al. Allergy 2005; 60: 875-81

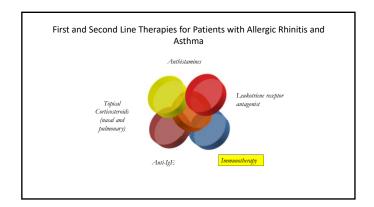


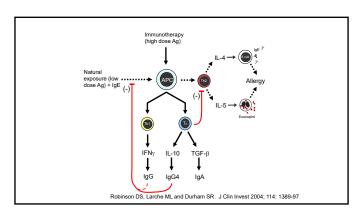




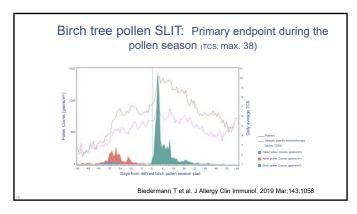


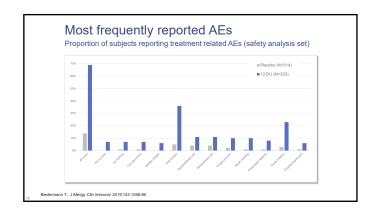


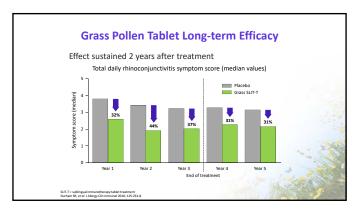


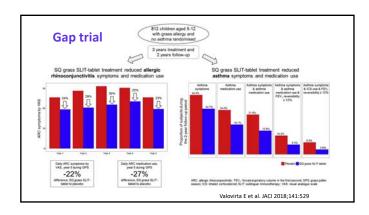


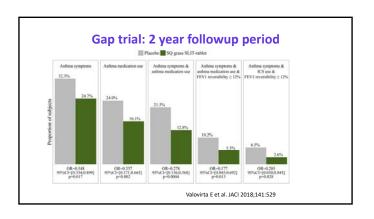


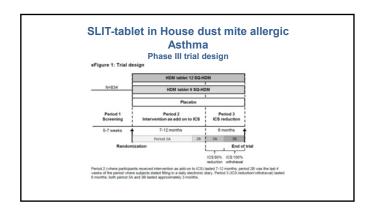


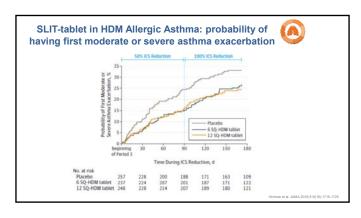


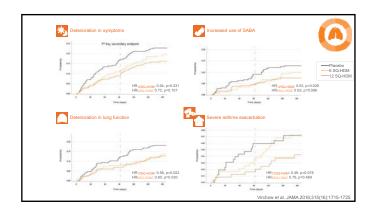


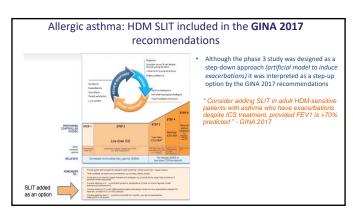


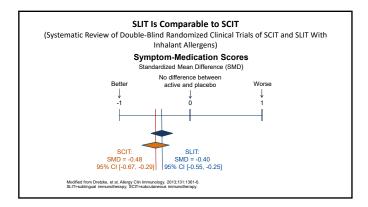


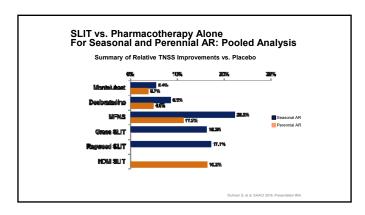


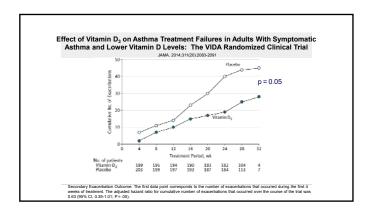


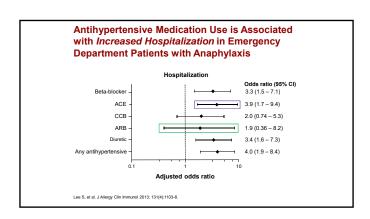












# 18 year old girl

- Severe ear itching and nasal congestion in May and June but can occur anytime of year
- Peaches give her a very itchy throat if raw but not cooked
- Chest tightness with exertion and wakes with cough at least one night per week
- Tried allergy shots in past with some benefit but still has symptoms this year

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- Allergen avoidance particularly dust mite covers for pillow and mattress, window filter for bedroom
- · Intranasal and inhaled steroid regularly
- Vitamin D3 2000 IU daily
- Nonsedating antihistamine prn
- Consider leukotriene receptor antagonist
- Consider intranasal corticosteroid/antihistamine combination
- Consider immunotherapy, particularly sublingual immunotherapy to house dust mite, which would reduce her asthma and rhinitis symptoms and need for treatment

# **Summary:**

- Allergic rhinitis and asthma are common conditions which often coexist
- Effective therapy can reduce symptoms and improve outcomes
- Immunotherapy can reduce symptoms and medication use if given appropriately for sufficient duration

# Summary

- · Sublingual immunotherapy products available:
  - Grass (5 years of age and over) Oralair and Grastek
  - Ragweed (Ragwitek)
  - House dust mite ( Acarizax)
  - · Birch tree (Itulatek)
- Asthma benefits emerging as an important treatment benefit
- Safety profile for sublingual immunotherapy continues to be robust

### TRUE or FALSE?

- Intranasal steroids are the first line for the treatment of rhinitis when moderate nasal congestion is present TRUE
- 2. Sublingual house dust mite immunotherapy reduces allergic rhinitis and asthma symptoms TRUE