

When to refer your pediatric asthma patient to a specialist

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Case

- CC: "he keeps getting sick"
- HPI: 6yo male with chronic cough, recurrent wheezing with respiratory illness and season change for several years
- Typically doesn't make it through respiratory illness or season change without 7-10 days of cough and wheezing
 - Cough described as barky, worse at night
- All illnesses typically require MD visit and oral steroids to improve, frequent antibiotics with illness
- He has a daily cough and coughs with activity when he is well
 - Cough is dry
- Frequent school absence





History

PMH: full term, no complications

Iyo when respiratory symptoms developed

- -No hospitalizations, but I-2 ED visits per year related to symptoms
- -No history of recurrent pneumonia or other severe infections
- -Tympanostomy tubes placed at 2yo
- -No history of food allergies or eczema
- -1-2 episodes of croup
- -Allergy testing by local allergist + dust mites and tree pollens

- FH: Father with asthma as a child, no other chronic lung disease
- SH: lives with parents, attends kindergarten, no tobacco exposure, no environmental concerns
- Medications
 - Advair 230/21 2 puffs twice a day
 - Qvar 40 2 puffs twice a day
 - Montelukast 5mg daily
 - Cetirizine 10mg daily
 - Flonase daily
 - Albuterol nebs twice a day, added Budesonide during illness

Physical Exam

- ROS: + mild intermittent allergy symptoms,
 picky eater, occasional constipation with
 associated abdominal pain
- Vital signs stable
- Mildly underweight
- Appears tired, but non-toxic, no acute distress
- Remainder of physical exam normal

- CXR: normal
- Spirometry normal
- Labs: Nnl: CBC, Immunoglobulins,
 Complement AH50 and CH50, Lymphocyte markers, and Tetanus titers

Additional Diagnostic Evaluation and Management

- Screening for iatrogenic adrenal insufficiency
- Reducing daily medications
- Performing PFTs when ill
- Airway evaluation
 - Aerodigestive team
- Final Diagnosis:
 - Severe Persistent Asthma
 - Eosinophilic Esophagitis





When to refer to asthma specialist?

- Patient with poorly controlled asthma or "asthma" not behaving as asthma
- History of 2 or more hospitalizations in the past 12 months
- History of life threatening asthma exacerbation
- Patient and caregivers need additional chronic disease management education
- Symptoms concerning for a comorbid condition that needs further evaluation
- Evaluation for biologics





What to Refer to Allergy/Immunology

- Any uncontrolled OR moderate/severe persistent asthmatic
 - A/I preferred:
 - Food allergy history/concerns
 - Uncontrolled eczema or seasonal allergies
 - Immunodeficiency concerns
 - Eosinophilic esophagitis
- Anaphylaxis: Any & All
- Eczema: Severe/Uncontrolled do NOT delay introduction of/eliminate foods!
- Uncontrolled rhinitis despite treatment
- Chronic urticaria that has failed quadruple normal dosing of cetirizine/levocetirizine/ fexofenadine





What to Refer to Pediatric Pulmonary

- Any uncontrolled OR moderate/severe persistent asthmatic
 - Pulmonary preferred:
 - Concerns for Cystic Fibrosis or Primary Ciliary Dyskinesia
 - Concerns for Aspiration
 - Comorbid congenital heart disease
 - Concerns for airway abnormalities, malacia, vascular ring
 - Concerns for OSA
- Asthma clinic
 - Severe asthma or asthma refractory to standard therapies
 - Recurrent hospitalizations and/or urgent care visits
 - Co-morbid conditions that contribute to difficult disease control
 - Unique asthma self management education needs

https://www.childrensal.org/services/asthma-clinic/education-and-resources



