Summary of the NAEPP's EPR-3: Guidelines for the **Diagnosis and Management of Asthma**

Consider the Diagnosis of ASTHMA if: Patient has RECURRENT episodes of cough, wheeze, shortness of breath, or chest tightness. Symptoms occur or worsen at night, awakening the patient. Symptoms occur or worsen in the presence of factors known to precipitate asthma. Alternative diagnoses have been considered such as GERD (a common co-morbidity), airway anomaly, foreign body, cystic fibrosis, vocal cord dysfunction, TB, or COPD. If diagnosis is in doubt, consider consulting an asthma specialist. Confirm the Diagnosis of ASTHMA if: Spirometry demonstrates obstruction and reversibility by an increase in FEV1 of ≥12% after bronchodilator (in all adults and children 5 years of age or older). Assess Asthma Severity: Any of the following indicate PERSISTENT ASTHMA Daytime symptoms >2 days per week OR Awakens at night from asthma ≥2X per month (age 0-4 years: ≥1X per month) OR Limitation of activities, despite pretreatment for EIB OR Short-acting beta, agonist (SABA) use for symptom control >2 days per week (not prevention of EIB) **OR** Two or more bursts oral corticosteroids in 1 year (age 0-4 years: >2 bursts oral corticosteroids in 6 months*) OR Age \geq 5 years: FEV₁ <80% predicted **OR** FEV₁/FVC ratio < predicted normal range for age (see below) *NOTE: For children age 0-4 years who had 4 or more episodes of wheezing during the previous year lasting >1 day, check risk factors for persistent asthma. Risk factors include either (1) one of the following: parental history of asthma, a physician diagnosis of atopic dermatitis, or evidence of sensitization to aeroallergens, or (2) two of the following: evidence of sensitization to foods, \geq 4% peripheral blood eosinophilia, or wheezing apart from colds. **Treatment for Persistent Asthma: Quick Tips for All Patients with Asthma** Daily Inhaled Corticosteroids (Step 2 or higher) Planned Asthma Visits: Every 1-6 months Follow the Stepwise Approach **Environmental Control**: Identify and avoid exposures such as tobacco smoke, pollens, molds, animal dander, cockroaches, and dust mites (Allergy testing recommended for anyone with persistent Assess response within 2-6 weeks asthma who is exposed to perennial indoor allergens) Flu Vaccine: Recommend annually Spirometry (Not During Exacerbation): At diagnosis and at least every 1-2 years starting at age 5 years Is Asthma Well Controlled? Asthma Control: Use tools such as ACQ®, ACT™ or ATAQ[©] to 1. Daytime symptoms <2 days per week AND assess asthma control Awakens at night from asthma <1X per month Asthma Education: Review correct inhaled medication device (age ≥12 years: <2X per month) AND technique at every visit 3. No limitation of activities AND Asthma Action Plan: At diagnosis; review and update at each visit SABA use for symptom control (not **SABA** (e.g., inhaled albuterol): 1) for guick relief every 4-6 hours as FEV₁/FVC: prevention of EIB) <2 days per week AND needed (see step 1), 2) pretreat with 2 puffs for exercise-induced 5-19 yrs <u>>85%</u> 1 burst oral corticosteroids per year bronchospasm (EIB) 5 minutes before exercise 20-39 yrs <u>></u>80% 40-59 yrs <u>≥</u>75% FEV1 >80% predicted Inhaled Corticosteroids (ICS): Preferred therapy for all patients 60-80 yrs >70% 7. FEV1/FVC · with persistent asthma Oral Corticosteroids: Consider burst for acute exacerbation Valved Holding Chamber (VHC) or Spacer: Recommend for use NO with all metered dose inhalers (MDI) Mask: Recommend for use with VHCs or spacers and/or nebulizer for age <5 years and anyone unable to use correct mouthpiece technique Consider step down if Step up therapy. well controlled for 3 Indications for asthma specialist consultation include: Asthma is unrespon-Reassess in 2-6 weeks. consecutive months. sive to therapy; asthma is not well controlled within 3-6 months of treatment; Continue to step up until Reassess every 3 to 6 life-threatening asthma exacerbation; hospitalization for asthma; required

2.

4

5.

6.

months.

Produced by the California Asthma Public Health Initiative (CAPHI) in association with CAPHI's Improving Asthma Control collaborative. Summarized from the NAEPP's Expert Panel Report 3: Guidelines for the Diagnosis and Management of Asthma (www.nhlbi.nih.gov/guidelines/asthma/). This summary of NAEPP's guidelines is designed to assist the clinician in the diagnosis and management of asthma and is not intended Diagnosis and Management of Astima (<u>www.nnior.nni.gov/quidelines/astima/</u>). This summary of NEEFE's guidelines is dosigned to asset the summary and other asthma resources available at <u>www.betterasthmacare.org</u>. Permission to replace the clinician's judgment or establish a protocol for all patients with a particular condition. Additional copies of the summary and other asthma resources available at <u>www.betterasthmacare.org</u>. Permission to replate r

>2 bursts oral corticosteroids in 1 year; requires higher level step care (see Stepwise Approach, next page); immunotherapy is being considered.

well controlled.

Summary of the NAEPP's EPR-3: Stepwise Approach for Managing Asthma in Children and Adults



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