





CLASSIFICATION OF ASTHMA SYMPTOM SEVERITY AND THERAPY

| DAYTIME SYMPTOMS | NIGHTTIME SYMPTOMS | LUNG FUNCTION | | LONG TERM CONTROL (see reverse side for drugs and dosages) | QUICK RELIEF | Considerations for infants and children <5 years ^{1,2} |
|---|--------------------|--|--|---|---|---|
| Continual symptoms Limited physical activity Frequent exacerbations | Frequent | FEV ₁ or PEF ≤ 60% Predicted PEF variability >30% ³ | Severe Persistent  | Refer to asthma specialist Daily high dose inhaled steroid AND Long acting bronchodilator ⁴ +/- oral steroid or theophylline AND Consider leukotriene modifier | Short-acting <i>B</i> ₂ -agonist prn | Corticosteroids: Inhaled: high dose systemic steroid only <u>if needed</u> |
| Daily symptoms Daily use of inhaled short-acting <i>B</i> ₂ agonist Exacerbations affect activity Exacerbations ≥ 2 times/wk, may last days | ≥5 month | FEV ₁ or PEF >60%-<80% Predicted PEF variability >30% ³ | Moderate Persistent  | Daily medium dose inhaled steroid AND Consider leukotriene modifier OR Daily low inhaled medium dose steroid AND Long acting bronchodilator ⁴ AND Consider leukotriene modifier | Short-acting <i>B</i> ₂ -agonist prn | Med dose ICS OR, once controlled Lower med dose ICS AND Nedocromil OR Lower med dose ICS AND Theophylline |
| Symptoms 3-6 times/wk Exacerbations may affect activity | 3-4 times/month | FEV ₁ or PEF ≥ 80% Predicted PEF variability 20 - 30% ³ | Mild Persistent  | Daily low dose inhaled steroid OR Daily Cromolyn or Nedocromil OR Daily leukotriene modifier | Short-acting <i>B</i> ₂ -agonist prn | Start with Cromolyn or Nedocromil, or low dose inhaled corticosteroids <i>if needed</i> |
| Symptoms ≤ 2 times/wk Asymptomatic and normal PEF between exacerbations Exacerbations brief (hrs-days), variable intensity | ≤2 times/month | FEV ₁ or PEF ≥ 80% predicted PEF variability <20% ³ | Mild Intermittent  | None | Short-acting <i>B</i> ₂ -agonist prn | None |

Adapted from Expert Panel Report 2 *Guidelines for the Diagnosis and Management of Asthma*, National Institutes of Health, National Heart, Lung, and Blood Institute

¹ For infants and children use spacer AND MASK.

² Infants and young children consistently requiring symptomatic treatment more than twice a week should be given daily anti-inflammatory therapy.

³ Assessment of diurnal variation in peak expiratory flow over 1-2 weeks is recommended when patients have asthma symptoms but normal spirometry. PEF should be measured before taking a short-acting inhaled beta₂ agonist in the morning and after taking one in the afternoon. A 20% difference between the morning and afternoon measurements suggests asthma.

⁴ Theophylline, sustained release / Salmeterol / Albuterol, sustained release.

If a patient has seasonal asthma on a predictable basis, daily, long-term anti-inflammatory therapy (inhaled corticosteroids, cromolyn, or nedocromil) should be initiated prior to the anticipated onset of symptoms and continued through the season.