Management of Asthma in Adults (Preferred treatment is shown in **bold text**)

Step	Symptoms	Nocturnal Symptoms	Lung Function	Long-Term Control	Quick Relief	Education
Step 4: Severe Persistent	●Continual Symptoms ●Limited Physical Activity ●Frequent exacerbations	Frequent	●FEV-1 or PEF≤ 60% predicted ●PEF variability > 30%	Daily medications: •Anti-inflammatory; inhaled corticosteroid (high dose) and •Long-acting bronchodilator; either long-acting inhaled beta₂ agonist, sustained-release theophylline, or long-acting beta₂ agonist tablets and •Corticosteroid tablets or syrup long-term (make repeat attempts to reduce systemic steroids and maintain control with high-dose ihaled steroids)	●Short-acting bronchodilator; inhaled beta₂-agonists as needed for symptoms. ●Intensity of treatment will depend on severity of exacerbation. ●Use of short-acting inhaled beta₂-agonists on a daily basis, or increasing use, indicates the need for additional long-term- control therapy.	Steps 2 and 3 actions plus: •Refer to individual education/ counseling
Step 3: Moderate Persistent	Daily Symptoms Daily use of inhaled short-acting beta2-agaonists Exacerbations affect activity Exacerbations ≥ 2 times a week; may last days	> 1 time a week	●FEV-1 or PEF > 60% - < 80% predicted ●PEF variability > 30%	Daily medication: • Either Anti- inflammatory: inhaled corticosteroid (medium dose) • or Inhaled corticosteroid (low-medium dose) and add a long-acting bronchodilator, especially for nighttime symptoms: either long-acting inhaled beta ₂ -agonist, sustained-release theophylline, or long-acting beta ₂ -agonist tablets. If needed: Anti-inflammatory: inhaled cortico-steroids (medium-high dose) and Long-acting bronchodilator, especially for nighttime symptoms: either long-acting inhaled beta ₂ -agonist, sustained-release theophylline, or long-acting beta ₂ -agonist tablets	Short-acting broncho-dilator; Inhaled beta₂-agonists as needed for symptoms. Intensity of treatment will depend on severity of exacerbation. Use of short-acting inhaled beta₂-agonists on a daily basis, or increasing use, indicates the need for additional long-term- control therapy.	Step 1 actions plus: •Teach self- monitoring •Refer to group education if available •Review and update self-management plan
Step 2: Mild Persistent	●Symptoms > 2 times a week but < 1 time a day ●Exacerbations may affect activity	> 2 times a month	●FEV-1 or PEF ≥ 80% predicted ●PEF variability 20-30%	One daily medication: • Anti-inflammatory: either inhaled corticosteroid (low doses) or cromolyn or nedocromil (children usually begin with a trial of cromolyn or nedocromil). Sustained-release theophylline to serium concentrations of 5-15 mcg/mL is an alternative, but not preferred, therapy. Zafirlukast or zileuton may also be considered for patients > 12 years of age, although their position in therapy is not fully established.	●Short-acting broncho-dilator: inhaled beta₂-agonists as needed for symptoms. ●Intensity of treatment will depend on severity of exacerbation. ●Use of short-acting inhaled beta₂-agonists on a daily basis, or increasing use, indicates the need for additional long-term-control therapy.	Step 1 actions plus:
Step 1: Mild Intermittent	●Symptoms ≤ 2 times a week ●Asymptomatic and normal PEF between exacerbations ●Exacerbations brief (from a few hours to a few days); intensity may vary	≤ 2 times a month	●FEV-1 or PEF ≥ 80% predicted ●PEF variability < 20%	No daily medication needed.		●Teach basic facts about asthma ●Teach inhaler /spacer/holding chamber technique ●Discuss roles of medications ●Develop self-management plan ●Develop action plan for when and how to take rescue actions, especially for patients with a history of severe exacerbations ●Discuss appropriate environmental control measures to avoid exposure to known allergens and irritants.