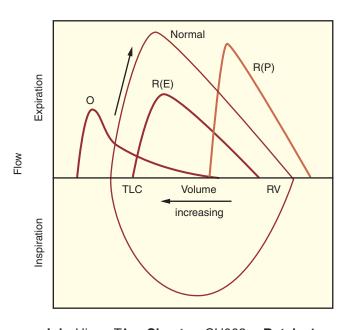


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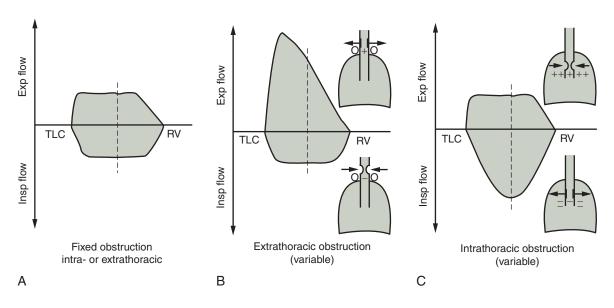


 
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## AGES 12+ YEARS: STEPWISE APPROACH FOR MANAGEMENT OF ASTHMA

	Intermittent Asthma	Management of Persistent Asthma in Individuals Ages 12+ Years					
Treatment	STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6	
Preferred	PRN SABA	Daily low-dose ICS and PRN SABA or PRN concomitant ICS and SABA	Daily and PRN combination low-dose ICS-formoterol A	Daily and PRN combination medium-dose ICS-formoterol	Daily medium-high dose ICS-LABA + LAMA and PRN SABA ▲	Daily high-dose ICS-LABA + oral systemic corticosteroids + PRN SABA	
Alternative		Daily LTRA* and PRN SABA or Cromolyn,* or Nedocromil,* or Zileuton,* or Theophylline,* and PRN SABA	Daily medium-dose ICS and PRN SABA or Daily low-dose ICS + LAMA, A or daily low-dose ICS + LTRA,* and PRN SABA or Daily low-dose ICS + Theophylline* or Zileuton,* and PRN SABA	Daily medium-dose ICS-LABA or daily medium-dose ICS+LAMA, and PRN SABA A or Daily medium-dose ICS+LTRA,* or daily medium-dose ICS+ Theophylline,* or daily medium-dose ICS+ AIBeuton,* and PRN SABA	Daily medium-high dose ICS-LABA or daily high-dose ICS + LTRA,* and PRN SABA		
		immunotherapy as an ac in individuals ≥ 5 years	recommend the use of sub djunct treatment to standard s of age whose asthma is co naintenance phases of immu	Consider adding Asthma Biologics (e.g., anti-IgE, anti-IL5, anti-IL5R, anti-IL4/IL13)**			
	. First sho	ank adharanaa inhalar		Control	sorbid conditions		
	• Step u • Step d	eck adherence, inhaler  if needed; reassess  own if possible (if astle  h asthma specialist if	in 2-6 weeks hma is well controlled f	or at least 3 consecut	ive months)		

Control assessment is a key element of asthma care. This involves both impairment and risk. Use of objective measures, self-reported control, and health care utilization are complementary and should be employed on an ongoing basis, depending on the individual's clinical situation.

**Abbreviations:** ICS, inhaled corticosteroid; LABA, long-acting beta<sub>2</sub>-agonist; LAMA, long-acting muscarinic antagonist; LTRA, leukotriene receptor antagonist; SABA, inhaled short-acting beta<sub>2</sub>-agonist

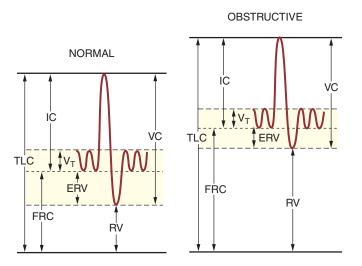
- ▲ Updated based on the 2020 guidelines.

  \* Cromolyn Nedocromil LTRA
- Updated based on the 2020 guidelines.
   Cromolyn, Nedocromil, LTRAs including Zileuton and montelukast, and Theophylline were not considered for this update, and/or have limited availability for use in the United States, and/or have an increased risk of adverse consequences and need for monitoring that make their use less desirable. The FDA issued a Boxed Warning for montelukast in March 2020.
   \*\* The AHRQ systematic reviews that informed this report did not include studies that examined the role of asthma biologics
- (e.g. anti-IgE, anti-IL5, anti-IL5R, anti-IL4/IL13). Thus, this report does not contain specific recommendations for the use of biologics in asthma in Steps 5 and 6.
- B Data on the use of LAMA therapy in individuals with severe persistent asthma (Step 6) were not included in the AHRQ systematic review and thus no recommendation is made.

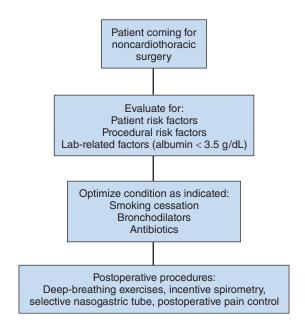
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Compo	nents of	Classification of Asthma Severity (Youths ≥ 12 years of age and adults)				
	erity	Intermittent -	Persistent			
			Mild	Moderate	Severe	
	Symptoms	≤ 2 days/week	> 2 days/week but not daily	Daily	Throughout the day	
	Nighttime awakenings	≤ 2x/month	3–4x/month	> 1x/week but not nightly	Often 7x/week	
Impairment Normal FEV <sub>1</sub> :FVC:	Short-acting $\beta_2$ -agonist use for symptom control (not prevention of EIB)	≤ 2 days/week	>2 days/week but not daily	Daily	Several times per day	
8–19 yr 85% 20–39 yr 80% 40–59 yr 75%	Interference with normal activity	None	Minor limitation	Some limitation	Extremely limited	
60–80 yr 70%	Lung function	Normal FEV <sub>1</sub> between exacerbations     FEV <sub>1</sub> > 80% predicted     FEV <sub>1</sub> :FVC normal	• FEV <sub>1</sub> < 80% predicted • FEV <sub>1</sub> :FVC normal	• FEV <sub>1</sub> > 60% but < 80% predicted • FEV <sub>1</sub> :FVC reduced 5%	• FEV <sub>1</sub> < 60% predicted • FEV <sub>1</sub> :FVC reduced > 5%	
Risk	Exacerbations (consider frequency and severity)	0-2/year >2/year    Frequency and severity may fluctuate over time for patients in any severity category  Relative annual risk of exacerbations may be related to FEV <sub>1</sub> .				

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