MORIC General Principles for the Diagnosis and Management of Asthma

The following guideline recommends general principles and key clinical activities for the diagnosis and management of asthma.		
Eligible Population	Key Components	Recommendation and Level of Evidence
Children and adults	Diagnosis and	Detailed medical history and physical exam to determine precipitating factors and that symptoms of recurrent episodes of airflow obstruction are present and
with the following:	management	reversed by bronchodilator.
Whoozing	goals	Use spirometry (FEV ₁ , FEV ₆ , FVC, FEV ₁ /FVC) in all patients age \geq 5 to determine that airway obstruction is at least partially reversible. [C]
History of cough		Consider alternative causes of airway obstruction.
(worse particularly at		Goals of therapy are to achieve control by: Reducing impairment: chronic symptoms, need for rescue therapy and maintain near-permal lung function and activity level [A]
night), recurrent		Reducing risk: exacerbations, need for emergency care or hospitalization, loss of lung function or reduced lung growth in children, or adverse effects of
wheeze, recurrent		therapy.[A]
recurrent chest tightness Symptoms occur or worsen in the	Assessment	Assess asthma severity to initiate therapy using severity classification chart for impairment [B] and risk [C]
	and monitoring	Assess asthma control to monitor and adjust therapy [B]. (Use asthma control chart, for impairment and risk. Step up if necessary; step down if possible.)
		Obtain spirometry (FEV ₁ , FEV ₆ , FVC, FEV ₁ /FVC) to confirm control after symptoms have stabilized; and, at least every 1-2 years [B], more frequently for not
		well-controlled asthma.
exercise, viral		If suspected or confirmed COVID-19, avoid nebulizers and spirometry.
infection, inhalant		Schedule follow-up care: within 1 week, or sooner, if acute exacerbation; at 2- to 6-week intervals while gaining control [D]; monitor control at 1- to
allergens, irritants, changes in weather, strong emotional expression (laughing		6-month intervals, at 3-month interval if a step-down in therapy is anticipated. [D]
	Education	Assess astrina control, medication technique, written astrina action plan, patient adherence and concerns at every visit.
	Luucation	Develop white in <u>astimita action plan</u> in partnership with patient/family/caregiver. [D] Opuate annually, more nequently in needed.
or crying hard),		flow monitoring) [B]: using written asthma action plan: taking medication correctly (inhaler technique and use of devices): recognizing, reporting and avoiding
stress, menstrual		environmental and occupational factors that worsen asthma (outdoor activity, reflux; see Eligible Population column).
cycles Symptoms occur or worsen at night, awakening the patient		Tailor education to literacy level of patient; appreciate potential role of patient's cultural beliefs and practices in asthma management. [C]
	Control	Recommend measures to control exposures to allergens (dust, mold, pollen), smoke, pollutants, or other irritants (perfumes, chemicals) that make asthma
	environmental	worse. [A]
	factors and	Consider allergen immunotherapy for patients with persistent asthma and when there is clear evidence of a relationship between symptoms and exposure to
	conditions	Treat relevant conditions (e.g., gastroesophageal reflux/lan/ngotracheal reflux [B] allergic bronchopulmonary aspergillosis [A] obesity [B] obstructive
	oonaliono	sleep apnea [D], rhinitis and sinusitis [B], chronic stress or depression [D], vocal cord dysfunction, especially in adolescent females [D].)
		Inactivated influenza vaccine for all patients over 6 months of age [A] unless contraindicated. Do not use intranasal influenza vaccine.
		Give 23-valent pneumococcal polysaccharide vaccine (PPSV23) age 19 and older (age 2-18 if using high-dose oral steroids).
	Medications	Initial treatment should be based on the severity of asthma, both impairment and risk.
	(LINK to national age-specific	Inhaled short-acting beta agonist and/or inhaled corticosteroids (ICS), for intermittent asthma.
	guidelines for	For persistent astima, innaled corticosteroids (ICS) alone or in combination with Long-Acting Beta Agonist (LABA) appears to be the most effective
	treatment recommendations)	Re-evaluate in 2 - 6 weeks for control. Modify treatment based on level of control. See asthma vardstick: Children Adults
	recommendations)	Consider step down if well-controlled for 3 months
	Referral	Consider referral to an asthma specialist for consultation or co-management if there are difficulties achieving or maintaining control if immunotherapy or
		biologics is considered, if additional testing is indicated, if the patient required 2 bursts of oral corticosteroids in the past vear or a hospitalization, or if the
		diagnosis is in doubt. [D]
levels of Evidence for the mo	st significant recom	mendations: A = randomized controlled trials: B = controlled trials: no randomization: C = observational studies: D = onition of expert panel

This guideline lists for the Diagnosis and Management steps. It is based on 2007 National Asthma Education and Prevention Program Expert Panel Report 3, Guidelines for the Diagnosis and Management of Asthma. National Heart, Lung and Blood Institute; Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention, 2020; NHLBI Asthma Care Quick Reference Diagnosing and Managing Asthma NIH Publication No. 12-5075, Revised September 2012; Advisory Committee on Immunization Practices, Pneumococcal ACIP Vaccine Recommendations (cdc.gov).

Approved by MQIC Medical Directors July 2008, 2010, 2012, 2014, 2016, 2018, 2020