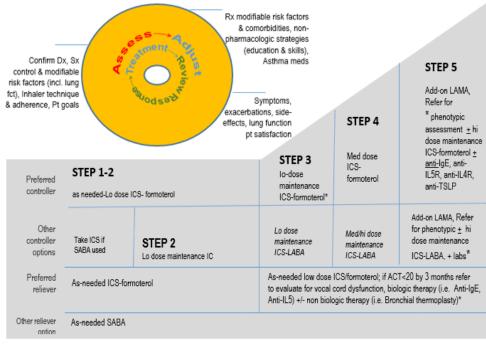


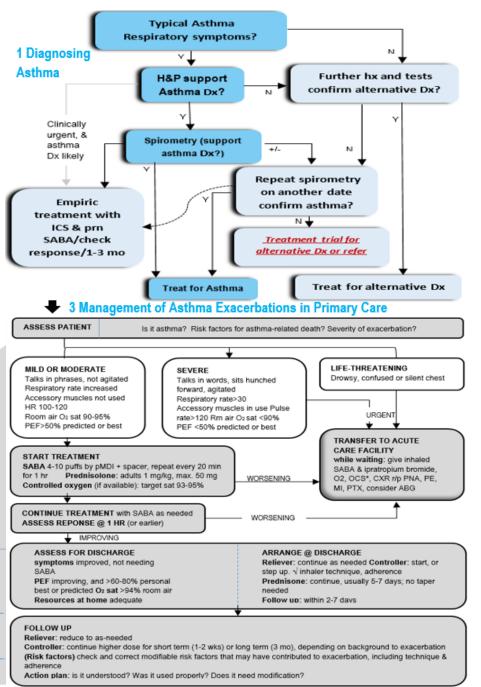
2023 Asthma age >12

Management Algorithm

BDP	Beclomethasone dipropionate	LAMA	Long-acting muscarinic antagonist	
BUD	Budesonide	OCS	Oral corticosteroid	
DPI	Dry powdered inhaler	PEF	Peak expiratory flow	
FEV1	Forced expiratory volume in 1 sec	pMDI	Pressurized metered dose inhaler	
FVC	Forced vital capacity	SABA	Short-acting β2-agonist	
HDM	House dust mite	SLIT	Sublingual immunotherapy	
ICS	Inhaled corticosteroid	GINA Main Report 2022 Front Cover		
LABA Long-acting β2-agonist			Onva mun Report 2022 From Cover	

2 STEPWISE APPROACH TO ASTHMA MANAGEMENT





Consider ordering spirometry with DLCO, IgE, eosinophil count and complete radioallergosorbent test (RAST) *

Asthma codes: Intermittent	Mild	Moderate	Severe	Have patient complete Asthma Co resources/asthma-control-	ontrol Test (ACT) https://www.asthma.com/additional- test.html
Step 1	Step 2	Step 3	Step 4	Provide guided self-	Consider step up Rx for uncontrolled sx, exacerbations or risks
Activity: Normal	Minor limitation	Some limitation	Extreme limitation	management education (self- monitoring + written action plan	(after recheck Dx, inhaler technique and adherence)
FEV ₁ : normal	normal	>60 <80% predicted	<60% predicted	+ regular review)	
FEV ₁ /FVC: normal	Normal	↓ 5%	↓>5%	 A set of the set of	May add SLIT in adult HDM-sensitive patients with allergic rhinitis with exacerbations despite ICS (& FEV ₁ is >70%)
In two to six weeks as	aluste level of asthma con	trol that is achieved to adjust t	herany accordingly	Advise non-pharmacological therapies & strategies (physical activity, weight loss, avoidance of asthma sensitizers)	Consider stepping down if sx controlled for 3 mo + low risk for exacerbations. Ceasing ICS is not advised.

ASTHMA	/ COPD PRESCRIPTION MEDICATION FORMULARY (Updated 2.23.23)
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MEDICATION CLASS	MEDI-CAL		MISP
Short-acting Beta2-Agonists	Albuterol meter dosed inhaler (ProAir HFA) Albuterol nebulizer 0.63 mg/3 mL 1.25 mg/3 mL 2.5 mg/3 mL (0.083%) 2.5 mg/0.5 mL (0.5%; concentrated, nee Levalbuterol meter dosed inhaler (Xopenex Levalbuterol nebulizer 0.31 mg/3 mL 0.63 mg/3 mL	ds saline)	Albuterol sulfate HFA (ProAir) 90 mcg/actuation Albuterol sulfate neb 0.083% (2.5 mg/3 mL), Albuterol nebulizer 0.5% (2.5 mg/5 mL)
Long-acting Beta2-Agonists	1.25 mg/3 mL Salmeterol (Serevent Diskus)		Salmeterol (Serevent Diskus)
Short-acting Anticholinergics	Ipratropium (Atrovent HFA) Ipratropium nebulizer 0.02% (2.5 mL)		Ipratropium nebulizer 0.02% (2.5 mL)
Long-acting Anticholinergics	Tiotropium (Spiriva Respimat) 1.25 mcg/actuation; 2.5 mcg/actuation		Tiotropium 18 mcg capsule (Spiriva Handihaler) – FDA approved for COPD
Short-acting Anticholinergics /Short- acting Beta2-Agonists Combination	Ipratropium/Albuterol meter dosed inhaler ((base) 100 mcg per inhalation Ipratropium/Albuterol nebulizer 0.5 mg/3 mg	Combivent Respimat) Ipratropium bromide 20 mcg/albuterol g per 3 mL	
<u>Medium-dose</u> : beclometha: mcg/day <u>High-dose</u> : beclomethason	e HFA (Qvar HFA) 80 mcg-240 mcg/day, flutic sone HFA (Qvar HFA) 240 mcg-480 mcg/day, re HFA (Qvar) > 480 mcg/day, flunisolide HFA	fluticasone HFA (Flovent HFA) 220-440 mcg/day, fluticasone DP	rent Diskus) 100-300 mcg/day, mometasone DPI (Asmanex Twisthaler) 220 mcg/day I (Flovent Diskus) 300-500 mcg/day, mometasone DPI (Asmanex Twisthaler) 440 >440 mcg/day, fluticasone DPI (Flovent Diskus) >500 mcg/day, mometasone DPI
(Asmanex Twisthaler) >440 Inhaled Corticosteroids	Asmanex HFA (50, 100, 200 mcg) Asmanex Twisthaler (110, 220 mcg) Flovent HFA (44, 110, 220 mcg) Flovent Diskus (50, 100, 250 mcg)	Pulmicort Flexhaler (90, 180 mcg) Pulmicort Nebulizer (0.25 mg/2 mL, 0.5 mg/2 mL; 1 mg/2 mL) Qvar RediHaler (40, 80 mcg)	Flovent HFA (44, 110, 220 mcg)
Corticosteroid / Long- acting Beta2-agonists Combination	Advair Diskus Advair HFA Anoro Ellipta	Breo Ellipta Dulera Symbicort	Advair Diskus/Wixela Inhub
Systemic Corticosteroids	Methylprednisolone Prednisone Prednisolone		Methylprednisolone Prednisone Prednisolone
Leukotriene Antagonists	Montelukast		Montelukast
Methylxanthines	Theophylline		