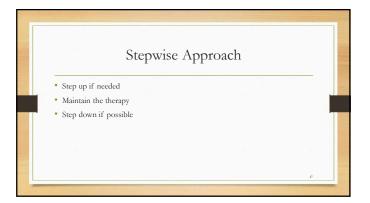


		Intermittent			Mild		Persistent	Moderate	
Severity	Ages 0-4 years	Ages 5-11 years	Ages ≥12 years	Ages 0-4 years	Ages 5-11 years	Ages ≥12 years	Ages 0-4 years	Ages 5-11 years	Ages 212 years
Symptoms		s2 days/week		>2 da;	/s/week but no	t daily		Delty	
Nighttime awakenings	0	s2x/n	nonth	1+2x/month	3-4x/	month	3-4x/month	≻tx/week b	ut not nightly
SABA" use for symptom control (not to prevent EIB*)		<2 days/week		>2 days/week but not daily	>2 days/ not daily ar than once	id not more		Deily	
Interference with normal activity		None		1	Minor limitation			Some limitatio	0
+ FEV,* (% predicted) + FEV,/FVC*	Not applicable	Normal FEV, between exacerbations >80% >85%	Normal FEV, between exacerbations >80% Normal [®]	Not applicable	>80%	>80% Normal*	Not applicable	60-80% 75-80%	60-80% Reduced SN*
Asthma exacerbations requiring oral systemic conticosteroids ¹		0-1/year		a2 exacerb. in 6 months, or wheezing a4x per year lasting >1 day AND risk factors for persistent asthma	Generally, r =2/	nore frequent - year			ter seventy. Intense events ind

Severity Output Original Original <thoriginal< th=""> <thoriginal< th=""> <th< th=""><th></th><th></th><th></th><th>Intermittent</th><th></th><th></th><th></th><th></th><th>Persistent</th><th></th><th>_</th><th></th><th></th><th></th></th<></thoriginal<></thoriginal<>				Intermittent					Persistent		_							
Number Address Partial Mark Output Mark O		Components of Severity					Mild			Moderate	_		Seviere					
Nytetime avalanting Staffunge avalanting Staffung			Ages 0-4 years	Ages S-11 years	Ages ≥12 years			Ages ≥12 years	Ages 0-4 years	Ages 5-11 years	Ages a12 years	Ages 0-4 years		Ages 212 years				
Statution 2 display/week 2 display/week 2 display/week Display Several times or any constrained with the several and several a		Symptoms		s2 days/week		>2 day	/s/week but no	t daily		Daily		Π	hroughout the	day				
Important contraction 2 displayment 2 displayment 2 displayment 3 displayment		Nighttime awakenings	0	s2x/r	nonth	1-2x/month	3-4x/	month	3-4x/month	>tx/week b	ut not nightly	>1x/week	Often	7x/week				
Lung Lung Lung (Lung Lung) Mot Report (Long Lung) Mot Report		symptom control		s2 days/week		>2 days/week but not daily	not daily as	nd not more		Daily		50	weral times per	day				
Lung Lung Lung (Lung Lung) Mot Report (Long Lung) Mot Report	airme	Interference with normal activity		None			Minor limitation			Some limitatio	n	1	Extremely limit	ed				
Attma executions at a second time and interview of the second time and the second time and the second time and tim				between exacerbations	between exacerbations		>80%	>80%	Not applicable	60-80%	60-80%	Not ecolicable	<60%	<60%				
Asthma exacerbations and year and interest a		+ FEV,/FVC*		>85%	Normal [®]						>80%	Normal ¹		75-80%	Reduced SN*		<75%	Reduced >5%
		Arthma everytheticor				in 6 months, or wheezing	Generally, /	nore frequent	ard intense even	ts indicate grea	(er sevenily:	\rightarrow						
		requiring oral systemic		O-U/year		year lasting >1 day	war lasting		⊨2/year		Generally: more frequent and intense events in			Nicate greater sevenity				
e cercosivogi decession for persistent actives for persistent	2					factors for persistent												
														15				

Components of	Intermittent	Hid		Persistent Moderate	1	Severe	
Severity	Ages Ages Ag 0-4 years 8-11 years 212 y			Ages Ages 5-11 years 212 years	Ages 0-4 years	Ages 8-TT years	Ages 212 year
Recommended Step for Initiating Therapy (See "Disputs Approach for Maraping Actime Long Tem," appe 7)	Sixo 1	Step 2	Step 3 r	Step 3 redum-dose Step 3 ICS" option	Step 3	Stap 3 medium-dose ICS" option or Stap 4	Step 4 or 5
The stepwise approach is meant to help, not replace, the plnics/				Consider short course of		ricostwoids	
decisionmaking needed to meet individual patient needs		in 2–6 weeks, depending on sevenity asse Idren 0–4 years old, if no clear benefit is o					



	to De	STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6
		At	each step: Patient e	ducation, environme	ental control, and man	agement of comorb	idities
		Intermittent Asthma	Consult with ast		tent Asthma: Daily M 3 care or higher is re		nsultation at step 2.
ars of age	Preferred Treatment [*]	SABA* as needed	low-dose ICS*	medium-dose ICS*	medium-dose ICS* + either LABA* or montelukast	high-dose ICS* + either LABA* or montelukast	high-dose ICS* + either LABA* or montelukast + oral corticosteroid
years	Alternative Treatment ^{5,1}		cromolyn or montelukast	_			_
1		If clear benefit is		weeks, and medicat djusting therapy or a	ion technique and adl Iternate diagnoses.	herence are satisfact	ory;
	Quick-Relief Medication	 With viral respin course of oral s 	atory symptoms: SA stemic corticosteroi	ABA every 4-6 hours	epends on severity of up to 24 hours (longe ation is severe or patie step up treatment,	r with physician cons	

							_
		STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6
		At e	ach step: Patient ec	lucation, environme	ntal control, and mana	gement of comorb	idities
		Intermittent Asthma	Consult with asth	Persist ma specialist if step	tent Asthma: Daily Me 4 care or higher is rec	dication Juired. Consider co	nsultation at step 3
of age	Preferred Treatment*	SABA* as needed	low-dose ICS*	low-dose ICS* + either LABA,* LTRA,* or theophylline ^{ne}	medium-dose ICS* + LABA*	high-dose ICS* + LABA*	high-dose ICS* + LABA* + oral corticosteroid
5-11 years of	Alternative Treatment ⁴		cromolyn, LTRA,* or theophylline ⁹	OR medium-dose ICS	medium-dose ICS* + either LTRA* or theophylline*	high-dose ICS* + either LTRA* or theophylline*	high-dose ICS* + either LTRA* or theophylline*
2				staneous allergen ir have persistent, al			+ oral corticosteroid
	Quick-Relief Medication	every 20 minuter • Caution: Increas	s as needed. Short c	ourse of oral system ise >2 days/week fo	ent depends on severit lic corticosterolds may r symptom relief (not t	be needed.	

		STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6
		At e	ach step: Patient ec	lucation, environmen	tal control, and mana	agement of comorb	idities
		Intermittent Asthma	Consult with asth	Persisten na specialist if step 4	nt Asthma: Daily Me care or higher is rec		nsultation at step
8	Preferred Treatment [*]	SABA* as needed	low-dose ICS*	low-dose ICS* + LABA* OR medium-dose ICS*	medium-dose ICS* + LABA*	high-dose ICS* + LABA* AND consider	high-dose ICS* + LABA* + oral corticosteroid%
LIZ YEARS OF	Alternative Treatment ^{*,1}		cromolyn, LTRA,* or theophylline*	low-dose ICS* + either LTRA,* theophylline, ⁸ or zileuton ¹¹	medium-dose ICS* + either LTRA,* theophylline,8 or zileutonII	omalizumab for patients who have allergies"	AND consider omalizumab fo patients who have allergies"
			Consider sub for patients wi	cutaneous allergen in ho have persistent, al	nmunotherapy lergic asthma.**		
	Quick-Relief Medication	every 20 minute Caution: Use of 1	as needed. Short o	intensity of treatmen ourse of oral systemic for symptom relief (n	corticosteroids may	be needed.	

			Well Controlled					
	mponents of Control	Ages O-4 years	Ages 5-11 years	Ages >12 years				
	Symptoms	s2 days/week	<2 days/week but not more than once on each day	<2 days/week				
	Nighttime awakenings	e'x/	month	s2x/month				
	Interference with normal activity		None					
	SABA* use for symptom control (not to prevent EIB*)		«2 days/week					
	Lung function • FEV," (8 predicted) or peak flow (% personal best) • FEV./FVC*	Not applicable	>80%	>80% Not applicable			 5.,	
	Validated questionnaires' ATAQ* ACQ* ACT*	Not applicable	Not applicable	0 40.751 520				
	Asthma exacerbations requiring oral systemic corticosteroids ⁹		0-1/year					
	Reduction in lung growth/Progressive loss of lung function	Not applicable	Evaluation required	ires long-term p care.				
	Treatment-related adverse effects		The level	Medicatio of intensity does i				
Reco for T	mmended Action reatment							
Marca page		Regula	Maintain current step r follow-up every I+6 o down if well control	months.		- 11	21	
to he decis	tepwise approach is meant (b, not replace, the clinical lonmaking needed to meet (dual patient needs.		3 months.		-			

		2.5.4		Well Controlled		Þ	lot Well Controlle	d
		mponents of Control	Ages 0-4 years	Ages 5-11 years	Ages >12 years	Ages 0-4 years	Ages 5-11 years	Ages ≥12 years
I		Symptoms	s2 days/week	deys/week but not more than once on each day	<2 days/week	>2 days/week	>2 days/week or multiple times on s2 days/week	>2 days/week
		Nighttime awakenings	ata,	imonth	s2x/month	>lx/month	≥2x/month	1-3x/week
		Interference with normal activity		None			Some limitation	
		SABA* use for symptom control (not to prevent EIB*)		42 days/week			>2 days/week	
		Lung function						
		 FEV,*(% predicted) or peak flow (% personal best) 	Not applicable	>80%	>80%	Not applicable	60-80%	60-80%
		+ FEV./FVC*		>80%	Not applicable		75-80%	Not applicable
		Validated questionnaires ¹ + ATAQ* + ACQ* + ACT*	Not applicable	Not applicable	0 40.751 320	Not applicable	Not applicable	1-2 a1.5 16-19
		Asthma exacerbations requiring oral systemic		0-\/year		2-3/year	>2/y	ear
		corticosteroids ⁶				Consider sevent	y and interval since las	t asthma exacerbati
		Reduction in lung growth/Progressive loss of lung function	Not applicable	Evaluation required	ires long-term p care.	Not applicable	Evaluation required	
1		Treatment-related adverse effects		The leve	Medicatio I of intensity does i	side effects can var ot correlate to speci	, y in intensity from non fic levels of control but	e to very traubleson should be considen
		mmended Action reatment				Step up 1 step	Step up at least 1 step	Step up 1 step
	Mana page		Regula	Maintain current ste, ir follow-up every I-6 o down if well contro	months.	For children 0-4	e in 2–6 weeks to achie years, if no clear bene idjusting thereby or alte	fit observed in 4-6
	to he decla	tepwise approach is meant (b, not replace, the clinical lonmaking needed to meet (dual patient needs.	Consect Au	3 months.		Review ache	rence to medication, in	Before step o heler technique, and

			Well Controlled		N	lot Well Controlle	d	Ve	ry Poorly Contro	lled	
	omponents of Control	Ages 06 years	Ages 5-11 years	Apes >12 years	Ages 0-4 years	Ages 5-11 years	Ages ≥12 years	Ages O-4 years	Ages 5-11 years	Ages ≥12 years	
	Symptoms	<2 days/week	<2 days/week but not more than once on each day	<2 days/week	>2 days/week	>2 days/week or multiple times on s2 days/week	>2 days/week		Throughout the day		
	Nighttime awakenings	alx/	month	s2x/month	>1x/month	>2x/month	1-3x/week	>1x/week	s2x/week	a4x/week	
	interference with normal activity		None			Some limitation		Extremely limited			
	SABA* use for symptom control (not to prevent EIB*)		s2 days/week			>2 days/week			Several times per da	,	
Impairment	Lung function • FEV," (% predicted) or peak flow (% personal best) • FEV,/FVC*	Not applicable	×80% ×80%	>80% Not applicable	Not applicable	60-80%	60-80% Not applicable	Not applicable	<50%	<60% Not applicable	
	Validated questionnaires" + ATAQ* + ACQ* + ACT*	Not applicable	Not applicable	0 #0.75 [‡] #20	Not applicable	Not applicable	1-2 >1.5 16-19	Not applicable	Not applicable	3-4 Not applicable «15	
	Asthma exacerbations		0-1/year		2-3/year	#2/y	>3/year	>3/year s2/year			
	requiring oral systemic corticosteroids [®]				Consider sevent	y and interval since las	it asthma exacerbat	atin			
	Reduction in lung growth/Progressive loss of lung function	Not applicable	Evaluation required		Not applicable	Evaluation required		Not applicable	Evaluation rec follow-	uires long-term up care.	
	Treatment-related adverse effects		The level	Madicatio I of intensity does i	side effects can vary in intensity from none to vary troublesone and worrisome. to correlate to specific levels of control but should be considered in the overall assessment of risk.						
	ommended Action Treatment				Step up 1 step	Step up at least 1 step	Step up I step	Consider short	course of onal system	ic corticosterolds	
Maria 58,99	"Stepwise Approach for Iging Asthme Long Term," 7) Iteowise approach is meant	Regula	Maintain current step r follow-up every I+6 o down if well control	months.	For children 0-4	e in 2–6 weeks to achie years, if no clear bener idjusting therapy or alle	fit observed in 4-6	Reevalue	Step up 1-2 steps. Ite in 2 weeks to achie	we Abotrol.	
to he decis	(o, not replace, the clinical lonmaking needed to meet idual patient needs.		3 months.		Review adher	rence to medication, in	wherler technique, an	p in treatment: environmental contr	ol. If alternative treat	ment was used.	

		0-4 years of ag	0
Daily Dose	Low	Medium*	High*
MEDICATION			
Beclomethasone MDI	N/A	N/A	N/A
40 mcg/puff			
80 mcg/puff			
Budesonide DPI'	N/A	N/A	N/A
90 mcg/inhalation			
180 mca/			
inhalation			
Budesonide Nebules	0.25-0.5 mg	>0.5-1.0 mg	>1.0 mg
0.25 mg	1-2 nebs*/day		
0.5 mg	1 neb1/day	2 nebs'/day	3 nebs*/day
1.0 mg		1 neb1/day	2 nebs*/day
Ciclesonide MDI	N/A	N/A	N/A
80 mcg/puff			
160 mcg/puff			
10000 000 000 000 000 000 000 000 000 0			
Flunisolide MDI'	N/A	N/A	N/A
80 mcg/puff			

		0-4 years of ag	e		5–11 years of age	,
Daily Dose	Low	Medium*	High*	Low	Medium*	High*
MEDICATION						
Beclomethasone MDI'	N/A	N/A	N/A	80-160 mcg	>160-320 mcg	>320 mog
40 mcg/puff				1-2 puffs 2x/day	3-4 puffs 2x/day	
80 mcg/puff				1 puff 2x/day	2 puffs 2x/day	≥3 puffs 2x/day
Budesonide DPI*	N/A	N/A	N/A	180-360 mcg	>360-720 mcg	>720 mcg
90 mcg/inhalation				1-2 inhs1 2x/day	3-4 inhst 2x/day	
180 mcg/ inhalation					2 inhs' 2x/day	a3 inhs1 2x/day
Budesonide Nebules	0.25+0.5 mg	>0.5+1.0 mg	>1.0 mg	0.5 mg	1.0 mg	2.0 mg
0.25 mg	1-2 nebs*/day			1 neb1 2x/day		
0.5 mg	1 neb¹/day	2 nebs*/day	3 nebs*/day	1 neb*/day	1 neb* 2x/day	
1.0 mg		1 neb1/day	2 nebs*/day		1 neb1/day	1 neb1 2x/day
Ciclesonide MDI1	N/A	N/A	N/A	80-160 mcg	>160-320 mcg	>320 mog
80 mcg/puff				1-2 puffs/day	1 puff am, 2 puffs pm- 2 puffs 2x/day	»3 puffs 2x/day
160 mcg/puff				1 puff/day	1 puff 2x/day	⊨2 puffs 2x/day
Flunisolide MDI	N/A	N/A	N/A	160 mog	320-480 mcg	=480 mog
80 mcg/puff				1 puff 2x/day	2-3 puffs 2x/day	≥4 puffs 2x/day

		0-4 years of ag	0		5-11 years of age	,		≥12 years of age	
Daily Dose	Low	Medium*	Hight	Low	Medium*	High*	Low	Medium*	High*
MEDICATION									
Beclomethasone MDI	N/A	N/A	N/A	80-160 mcg	>160-320 mcg	>320 mog	80-240 mcg	>240-480 mcg	>480 mcg
40 mcg/puff				1-2 puffs 2x/day	3-4 puffs 2x/day		1-3 puffs 2x/day	4-6 puffs 2x/day	
80 mcg/puff				1 puff 2x/day	2 puffs 2x/day	≥3 puffs 2x/day	1 puff am, 2 puffs pm	2+3 puffs 2x/day	≥4 puffs 2x/day
Budesonide DPI'	N/A	N/A	N/A	180-360 mcg	>360-720 mcg	>720 mcg	180-540 mcg	>540-1,080 mcg	>1,080 mcg
90 mcg/inhalation				1-2 inhs' 2x/day	3-4 inhs' 2x/day		1-3 inhs' 2x/day		
180 mcg/ inhalation					2 inhs' 2x/day	a3 inhs1 2x/day	1 inh' am, 2 inhs' pm	2-3 inhs' 2x/day	⇒4 inhs' 2x/da
Budesonide Nebules	0.25+0.5 mg	>0.5+1.0 mg	>1.0 mg	0.5 mg	1.0 mg	2.0 mg	N/A	N/A	N/A
0.25 mg	1-2 nebs*/day			1 neb1 2x/day					
0.5 mg	1 neb¹/day	2 nebs1/day	3 nebs1/day	1 neb1/day	1 neb* 2x/day				
1.0 mg		1 neb¹/day	2 nebs*/day		1 neb1/day	1 neb1 2x/day			
Ciclesonide MDI	N/A	N/A	N/A	80-160 mcg	>160-320 mcg	>320 mog	160-320 mcg	>320-640 mcg	>640 mcg
80 mcg/puff				1+2 puffs/day	1 puff am, 2 puffs pm- 2 puffs 2x/day	a3 puffs 2x/day	1-2 puffs 2x/day	3-4 puffs 2x/day	
160 mcg/puff				1 puff/day	1 puff 2x/day	⊨2 puffs 2x/day		2 puffs 2x/day	a3 puffs 2x/da
Flunisolide MDI	N/A	N/A	N/A	160 mcg	320-480 mcg	⇒480 mcg	320 mcg	>320+640 mcg	>640 mcg
80 mcg/puff				1 puff 2x/day	2-3 puffs 2x/day	≥4 puffs 2x/day	2 puffs 2x/day	3-4 puffs 2x/day	»5 puffs 2x/di

		0-4 years of age				
Daily Dose	Low	Medium*	High*			
MEDICATION						
Fluticasone MDI'	176 mcg	>176-352 mcg	>352 mcg			
44 mcg/puff	2 puffs 2x/day	3-4 puffs 2x/day				
10 mcg/puff		1 puff 2x/day	≥2 puffs 2x/day			
220 mcg/puff						
Fluticasone DPI'	N/A	N/A	N/A			
50 mcg/inhalation						
IOO mcg/inhalation						
250 mcg/inhalation						
Mometasone DPI'	N/A	N/A	N/A			
10 mcg/inhalation						
220 mcg/inhalation						
						27

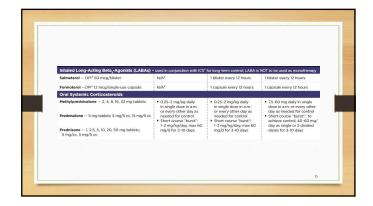
		0-4 years of age			5-11 years of age	,	
Daily Dose	Low	Medium [*]	High*	Low	Medium*	High*	
MEDICATION				_			
Fluticasone MDI	176 mcg	>176-352 mog	>352 mog	88-176 mcg	>176-352 mcg	>352 mcg	
44 mcg/puff	2 puffs 2x/day	3-4 puffs 2x/day		1-2 puffs 2x/day	3-4 puffs 2x/day		
110 mcg/puff		1 puff 2x/day	≥2 puffs 2x/day		1 puff 2x/day	≥2 puffs 2x/day	
220 mcg/puff							11 A A
Fluticasone DPI*	N/A	N/A	N/A	100-200 mcg	>200-400 mcg	>400 mcg	
50 mcg/inhalation				1-2 inhs' 2x/day	3-4 inhst 2x/day		
100 mcg/inhalation				1 inh* 2x/day	2 inhs1 2x/day	>2 inhs' 2x/day	
250 mcg/inhalation						1 inh† 2x/day	
Mometasone DPI	N/A	N/A	N/A	110 mcg	220-440 mcg	>440 mcg	
110 mcg/inhalation				1 inh1/day	1-2 inhs1 2x/day	»3 inhs' 2x/day	
220 mcg/inhalation					1-2 inhs1/day	⇒3 inhs¹ divided in 2 doses	28

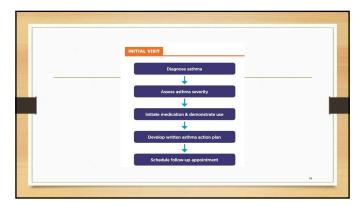
		0-4 years of age			5-11 years of age	2		≥12 years of age	
Daily Dose	Low	Medium*	High*	Low	Medium*	High*	Low	Medium [*]	High*
MEDICATION									
Fluticasone MDI	176 mcg	>176-352 mog	>352 mcg	88-176 mcg	>176-352 mcg	>352 mcg	88-264 mcg	>264-440 mcg	>440 mcg
44 mcg/puff	2 puffs 2x/day	3-4 puffs 2x/day		1-2 puffs 2x/day	3-4 puffs 2x/day		1-3 puffs 2x/day		
110 mcg/puff		1 puff 2x/day	≥2 puffs 2x/day		1 puff 2x/day	≥2 puffs 2x/day		2 puffs 2x/day	3 puffs 2x/day
220 mcg/puff								1 puffs 2x/day	≥2 puffs 2x/day
Fluticasone DPI*	N/A	N/A	N/A	100-200 mcg	>200-400 mcg	>400 mog	100-300 mcg	>300-500 mcg	>500 mcg
50 mcg/inhalation				1-2 inhs' 2x/day	3-4 inhs' 2x/day		1-3 inhs' 2x/day		
100 mcg/inhalation				1 inh' 2x/day	2 inhs' 2x/day	>2 inhs' 2x/day		2 inhs' 2x/day	≥3 inhs' 2x/day
250 mcg/inhalation						1 inh† 2x/day		1 inh* 2x/day	>2 inhs' 2x/day
Mometasone DPI'	N/A	N/A	N/A	110 mcg	220-440 mcg	>440 mcg	110-220 mcg	>220-440 mcg	>440 mcg
10 mcg/inhalation				1 inh¹/day	1-2 inhs' 2x/day	a3 inhs† 2x/day	1-2 inhs' pm	3-4 inhs' pm or 2 inhs' 2x/day	≥3 inhs' 2x/day
220 mcg/inhalation					1-2 inhs1/day	»3 inhs' divided in 2 doses	1 inh† pm	1 inh* 2x/day or 2 inhs* pm ²⁹	≥3 inhs' divider

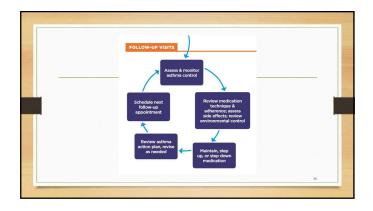
Medication	0-4 years of age	5-11 years of age	≥12 years of age
Combined Medication (inhaled corticoste	eroid + long-acting beta,-ag	ionist)	
Fluticasone/Salmeterol – DPI* 100 mcg/50 mcg, 250 mcg/50 mcg, or 500 mcg/50 mcg	N/A†	1 inhalation 2x/day; dose depends on level of severity or control	1 inhalation 2x/day; dose depends on level of severity or control
MDI* 45 mcg/21 mcg, 115 mcg/21 mcg, or 230 mcg/21 mcg			
Budesonide/Formoterol MDI* 80 mcg/4.5 mcg or 160 mcg/4.5 mcg	N/A†	2 puffs 2x/day; dose depends on level of severity or control	2 puffs 2x/day; dose depend on level of severity or contro
Mometasone/Formoterol – MDI [†] 100 mcg/S mcg	N/A†	N/A ⁺	2 inhalations 2x/day; dose depends on severity of asthm

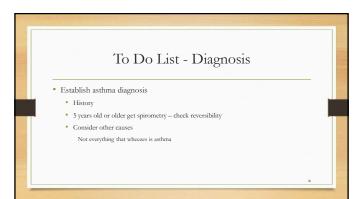
Medication Leukotriene Modifiers	0-4 years of age	5-11 years of age	≥12 years of age
eukotriene Receptor Antagonists (LTRAs) Montelukast — 4 mg or 5 mg chewable tablet, 4 mg granule packets, 10 mg tablet	4 mg every night at bedtime (1-5 years of age)	5 mg every night at bedtime (6-14 years of age)	10 mg every night at bedtime
Zafirlukast – 10 mg or 20 mg tablet Take at least 1 hour before or 2 hours after a meal. Monitor liver function.	N/A*	10 mg 2x/day (7-11 years of age)	40 mg daily (20 mg tablet 2x/day)
5-Lipoxygenase inhibitor Zileuton — 600 mg tablet Monitor liver function.	N/A*	N/A†	2,400 mg daily (give 1 tablet 4x/day)

Medication	0-4 years of age	5-11 years of age	≥12 years of age
Immunomodulators			
Omalizumab (Anti IgE ¹) — Subcutaneous injection, 150 mg/1.2 mL following reconstitution with 1.4 mL sterile water for injection	N/A*	N/A†	150-375 mg subcutaneous every 2-4 weeks, depending on body weight and
Monitor patients after injections; be prepared to treat anaphylaxis that may occur.			pretreatment serum IgE lev
Cromolyn			
Cromolyn – Nebulizer: 20 mg/ampule	1 ampule 4x/day, N/A ⁺ <2 years of age	1 ampule 4x/day	1 ampule 4x/day
Methylxanthines			
Theophylline — Liquids, sustained-release tablets, and capsules Monitor serum concentration levels.	Starting dose 10 mg/kg/ day; usual maximum: • <1 year of age: 0.2 (age in weeks) + 5 = mg/kg/day • 21 year of age: 16 mg/kg/day	Starting dose 10 mg/ kg/day; usual maximum: 16 mg/kg/day	Starting dose 10 mg/kg/day up to 300 mg maximum; usual maximum: 800 mg/day

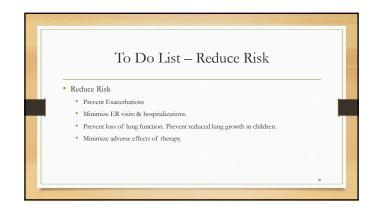








To Do List – Control Freak • Reduce Impairment • Prevent chronic symptoms • Infrequent use of SABA • Maintain near normal lung function and activities





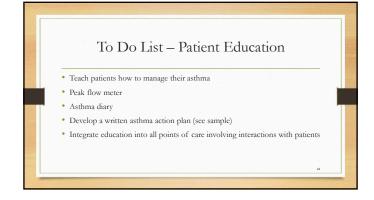






To Do List – Use of Meds

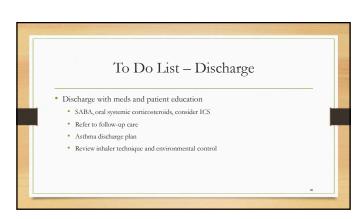
- Select medication and delivery devices that meet patient's needs and circumstances.
- · Review medications, technique, and adherence at each follow-up visit







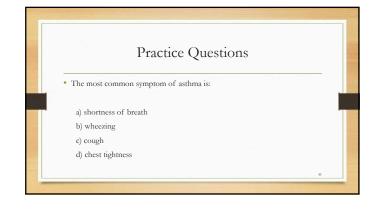


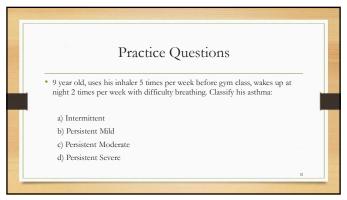


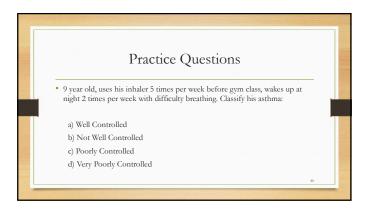
Certified Asthma Educator

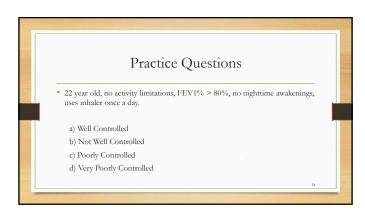
- National Asthma Education Certification Board
- Cost \$350
- Eligibility There are two kinds of eligibility. A candidate must fulfill ONE of the requirements.
 - 1. Licensed or credentialed health care professionals OR
- 2. Individuals providing professional direct patient asthma education and counseling with a
 minimum of 1,000 hours experience in these activities.
- https://www.naecb.com

Practice (Questions
An asthma exacerbation is considered of predicted or personal best.	severe if peak flow measurement are
a) <80%	
b) <70%	
c) <60%	
d) <50%	

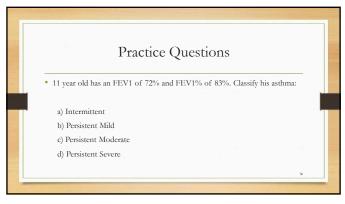


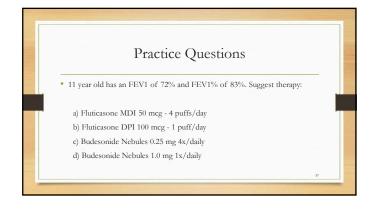


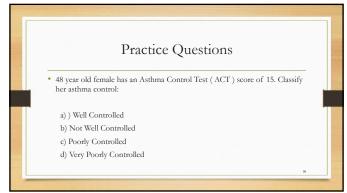


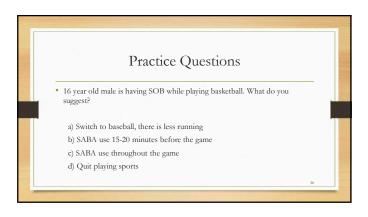


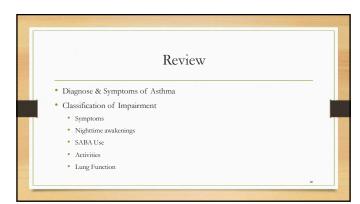
Practice Questions Pregnant patients should: a) Keep taking controller meds b) Stop taking controller meds due to maternal side effects c) Stop taking controller meds due to risk of birth defects d) Stop taking controller meds due to fetal asphysia













	Review	
Certified Asthma Educ	ator Exam	
AE-C		