# ASTHMA MANAGEMENT: 0-4 YEARS OF AGE (Part 1 of 2)

### CLASSIFYING ASTHMA SEVERITY AND INITIATING TREATMENT

# Assessing severity and initiating therapy in children who are not currently taking long-term control medication Classification of Asthma Severity

	Classification			ification of Asth	on of Asthma Severity		
				Persistent			
Components of Severity		Intermittent	Mild		Moderate	Severe	
Impairment	Symptoms	≤2 days/week	>2 da not d	ays/week but aily	Daily	Throughout the day	
	Nighttime awakenings	0	1-2×	/month	3–4×/month	>1×/week	
	Short-acting $\beta_2$ -agonist use for symptom control (not prevention of EIB)	≤2 days/week	>2 da not d	ays/week but aily	Daily	Several times per day	
	Interference with normal activity	None	Minor	limitation	Some limitation	Extremely limited	
Risk	Exacerbations requiring oral systemic	0-1/year ≥2 exacerbations in 6 months requiring oral systemic corticosteroids, OR ≥4 wheezing episodes/1 year lasting >1 day AND risk factors for persistent asthma			s, ÖR lasting		
	corticosteroids	<ul> <li>Consider severity and interval since last exacerbation</li> <li>Frequency and severity may fluctuate over time</li> <li>Exacerbations of any severity may occur in patients in any severity category</li> </ul>					
Recommended Step		Step 1		Step 2	Step 3 and short course of corticos	f oral systemic	
for Initiating Treatment In 2–6 weeks, depending on severity, evaluate level of asthma control that is achieved. If no clear benefit is observed in 4–6 weeks, consider adjusting therapy or alternative diagnoses.							
STEPWISE APP	ROACH FOR MANA	GING ASTHMA					
Intermittent Asthma		Persistent Asthma: Daily Medication th asthma specialist if Step 3 care or higher is required. Consider consultation at Step 2.					
<ul> <li>SABA as needed</li> <li>With viral respirat</li> </ul>	Step 2     Step 3       Preferred:     Preferred:       Low-dose ICS     Medium-dose ICS       Alternative:     Cromolyn or       Cromolyn or     Montelukast   Patient Education and Environmental Construction for All Patients for symptoms. Intensity of treatment depends on sev ory infection: SABA every 4–6hrs up to 24hrs (longe emic controcosteroids if exacerbation is severe or patients)		ferred: µm-dose ⊢ either BA or telukast al Control n severity of onger with	symptoms		Step up if needed (first, check adherence, inhaler technique, and environmental control) Assess control Step down if possible (and asthma is well controlled at least 3 months)	
exacerbations <ul> <li>Caution: Frequent use of SABA may indicate the need to step up treatment. See text for recommendations on initiating daily long-term-control therapy</li> </ul>							

## ASTHMA MANAGEMENT: 0-4 YEARS OF AGE (Part 2 of 2)

#### ASSESSING ASTHMA CONTROL AND ADJUSTING THERAPY

		Classification of Asthma Control					
Components of Control		Well Controlled	Not Well Controlled	Very Poorly Controlled			
Impairment	Symptoms	≤2 days/week	>2 days/week	Throughout the day			
	Nighttime awakenings	≤1×/month	>1×/month	>1×/week			
	Interference with normal activity	None	Some limitation	Extremely limited			
	Short-acting $\beta_2$ -agonist use for symptom control (not prevention of EIB)	≤2 days/week	>2 days/week	Several times per day			
Risk	Exacerbations requiring oral systemic corticosteroids	0–1/year	2–3/year	>3/year			
	Treatment-related adverse effects	Medication side effects can vary in intensity from none to very troublesome and worrisome. The level of intensity does not correlate to specific levels of control but should be considered in the overall assessment of risk.					
Recommended Action for Treatment		Maintain current step     Regular follow-up     every 1–6 months     Consider step down if     well controlled for at     least 3 months	<ul> <li>Reevaluate in 2–6 weeks</li> <li>If no clear benefit in 4–6 weeks, consider</li> </ul>	<ul> <li>Step up—1–2 steps—and</li> <li>Reevaluate in 2 weeks</li> <li>If no clear benefit in 4–6 weeks, consider alternative</li> </ul>			
NOTES							

Key: EIB = exercise-induced bronchospasm; ICS = inhaled corticosteroid; LABA = inhaled long-acting  $\beta_2$ -agonist; SABA = inhaled shortacting  $\beta_2$ -agonist. \*Preferred therapy is based on *Expert Panel Report 2* from 1997.

#### REFERENCES

Adapted from National Asthma Education and Prevention Program. *Expert Panel Report 3: Guidelines for the Diagnosis and Management of Asthma* 2007. U.S. Department of Health and Human Services. Available at: http://www.nhlbi.nih.gov/guidelines/asthma/asthgdln.pdf. Accessed on: November 26, 2012. (Rev. 9/20) (Rev. 9/2014)