

# ASTHMA MANAGEMENT: 5–11 YEARS OF AGE (Part 1 of 2)

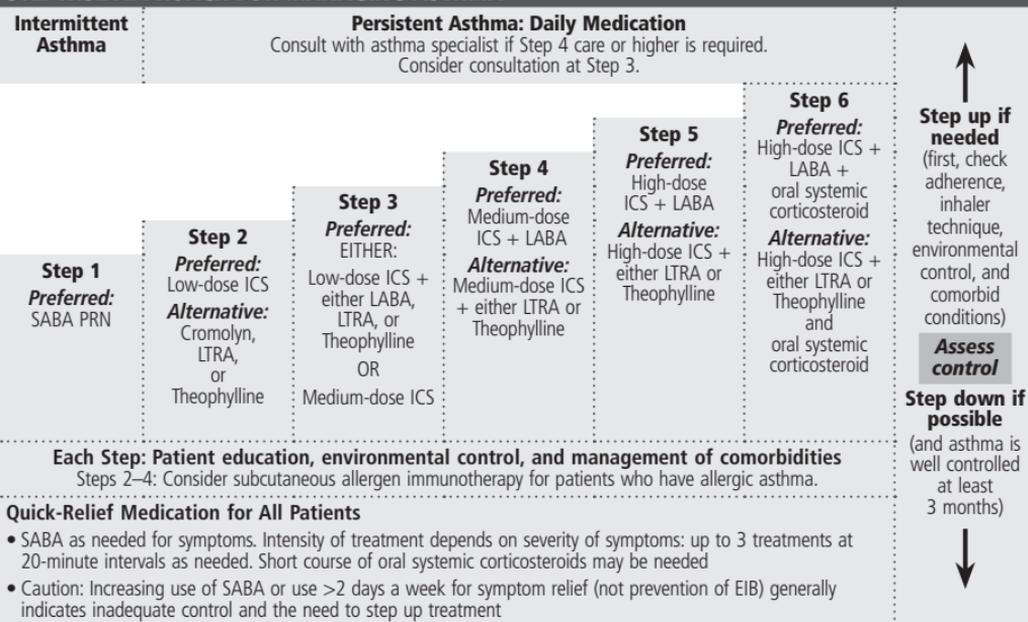
## CLASSIFYING ASTHMA SEVERITY AND INITIATING TREATMENT

Assessing severity and initiating therapy in children who are not currently taking long-term control medication

| Components of Severity                    |  | Classification of Asthma Severity   |   |  |  |
|---|--|---|---|--|--|
|   |  | Intermittent  | Mild  | Persistent   |  |
| Impairment                                | Symptoms   | ≤2 days/week  | >2 days/week but not daily  | Daily  | Throughout the day   |
|   | Nighttime awakenings   | ≤2×/month   | 3–4×/month  | >1×/week but not nightly   | Often 7×/week  |
|   | Short-acting β <sub>2</sub> -agonist use for symptom control (not prevention of EIB) | ≤2 days/week  | >2 days/week but not daily  | Daily  | Several times per day  |
|   | Interference with normal activity  | None  | Minor limitation  | Some limitation  | Extremely limited  |
|   | Lung function  | <ul style="list-style-type: none"> <li>Normal FEV<sub>1</sub> between exacerbations</li> <li>FEV<sub>1</sub> &gt;80% predicted</li> <li>FEV<sub>1</sub>/FVC &gt;85%</li> </ul>  | <ul style="list-style-type: none"> <li>FEV<sub>1</sub> ≥80% predicted</li> <li>FEV<sub>1</sub>/FVC &gt;80%</li> </ul> | <ul style="list-style-type: none"> <li>FEV<sub>1</sub> = 60%–80% predicted</li> <li>FEV<sub>1</sub>/FVC = 75%–80%</li> </ul> | <ul style="list-style-type: none"> <li>FEV<sub>1</sub> &lt;60% predicted</li> <li>FEV<sub>1</sub>/FVC &lt;75%</li> </ul> |
| Risk                                      | Exacerbations requiring oral systemic corticosteroids                                | 0–1/year  | ≥2/year →   |  |  |
|   |  | <ul style="list-style-type: none"> <li>Consider severity and interval since last exacerbation</li> <li>Frequency and severity may fluctuate over time for patients in any severity category</li> <li>Relative annual risk of exacerbations may be related to FEV<sub>1</sub></li> </ul> |   |  |  |
| Recommended Step for Initiating Treatment |  | Step 1  | Step 2  | Step 3, medium-dose ICS option   | Step 3, medium-dose ICS option, or Step 4<br>and consider short course of oral systemic corticosteroids                  |

In 2–6 weeks, evaluate level of asthma control that is achieved and adjust therapy accordingly.

## STEPWISE APPROACH FOR MANAGING ASTHMA



(continued)

# ASTHMA MANAGEMENT: 5–11 YEARS OF AGE (Part 2 of 2)

## ASSESSING ASTHMA CONTROL AND ADJUSTING THERAPY

| Components of Control |  | Classification of Asthma Control   |  |   |
|-----------------------|--|--|--|---|
|                       |  | Well Controlled  | Not Well Controlled  | Very Poorly Controlled  |
| Impairment            | Symptoms   | ≤2 days/week but not more than once on each day  | >2 days/week or multiple times on ≤2 days/week   | Throughout the day  |
|                       | Nighttime awakenings   | ≤1×/month  | ≥2×/month  | ≥2×/week  |
|                       | Interference with normal activity  | None   | Some limitation  | Extremely limited   |
|                       | Short-acting β <sub>2</sub> -agonist use for symptom control (not prevention of EIB) | ≤2 days/week   | >2 days/week   | Several times per day   |
|                       | Lung function<br>• FEV <sub>1</sub> or peak flow<br>• FEV <sub>1</sub> /FVC          | >80% predicted/<br>personal best<br>>80%   | 60%–80% predicted/<br>personal best<br>75%–80%   | <60% predicted/<br>personal best<br><75%  |
| Risk                  | Exacerbations requiring oral systemic corticosteroids                                | 0–1/year   | ≥2/year  |   |
|                       |  | <b>Consider severity and interval since last exacerbation</b>  |  |   |
|                       | Reduction in lung growth   | Evaluation requires long-term follow-up  |  |   |
|                       | 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. |  |   |
|                       | <b>Recommended Action for Treatment</b>  | <ul style="list-style-type: none"> <li>• Maintain current step</li> <li>• Regular follow-up every 1–6 months</li> <li>• Consider step down if well controlled for at least 3 months</li> </ul>                                 | <ul style="list-style-type: none"> <li>• Step up at least 1 step and</li> <li>• Reevaluate in 2–6 weeks</li> <li>• For side effects, consider alternative treatment options</li> </ul> | <ul style="list-style-type: none"> <li>• Consider short course of oral systemic corticosteroids</li> <li>• Step up 1–2 steps, and</li> <li>• Reevaluate in 2 weeks</li> <li>• For side effects, consider alternative treatment options</li> </ul> |

### NOTES

**Key:** EIB = exercise-induced bronchospasm; FEV<sub>1</sub> = forced expiratory volume in 1 second; FVC = forced vital capacity; ICS = inhaled corticosteroid; LABA = inhaled long-acting β<sub>2</sub>-agonist; LTRA = leukotriene receptor antagonist; SABA = inhaled short-acting β<sub>2</sub>-agonist.

### 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: July 19, 2019.

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