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- Planners, Content Reviewers and Speakers for this activity:
 - Did provide disclosure information.
 - Have no relevant financial arrangements or affiliations with commercial interests
 - May discuss commercial products/services and/or non-FDA approved uses of products/providers of services.
- Commercial Support

This activity receives no commercial support.





GINA 2023

- WHO and NHLBI collaborated to develop GINA in 1993
- It is a global evidenced based strategy that can be adapted for local health systems
 - Careful attention to study design, population and clinical relevance
- Updated annually
- Resource: https://ginasthma.org/pocket-guide-for-asthma-managementand-prevention/



Common themes of GINA and NHLBI are chronic disease management, shared decision-making, and movement towards combining ICS with SABA or Formoterol for quick relief





Signs and Symptoms of Asthma

- Recurrent or Episodic Symptoms of:
 - I. Wheezing (musical; polyphonic)
 - 2. Nocturnal or Frequent Cough
 - 3. Chest Tightness
 - 4. Shortness of Breath

These symptoms often are worse or occur with exercise, viral infections, weather changes, allergen or environmental irritant exposure, strong emotions, and stress





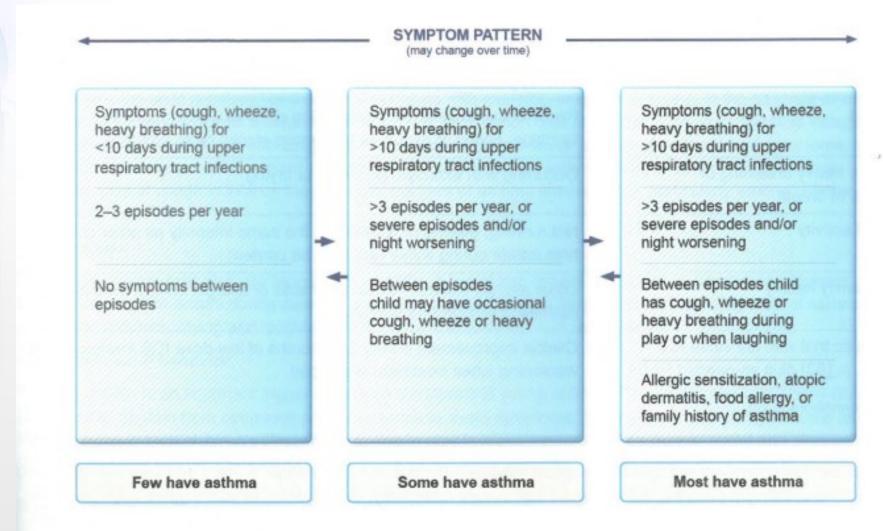
Differential Diagnosis

- Asthma
- Recurrent viral infections
- Aspiration
- Airway malacia
- Foreign body
- Pertussis
- Persistent bacterial bronchitis
- Congenital heart disease

- Cystic Fibrosis
- Primary Ciliary Dyskinesia
- Vascular Ring
- Bronchopulmonary Dysplasia
- Immune deficiency



Probability of Asthma Diagnosis in Children 5 Years and Younger







Risk factors for asthma exacerbations

- Poorly controlled asthma
- One or more severe exacerbations in the previous year
 - ED, hospitalizations, or OCS
- Start of child's usual flare up season
- Exposures such as tobacco, indoor allergen exposure, or outdoor air pollution
- Major psychological or socio-economic problems for child or family
- Poor adherence with ICS medications, incorrect inhaler technique





Confirmation of diagnosis if necessary
Symptom control & modifiable
risk factors (see Box 2-2)
Comorbidities
Inhaler technique & adherence
Patient (and parent/caregiver) preferences
and goals

ADJUST

Symptoms
Exacerbations
Side-effects
Lung function
Comorbidities
Patient (and parent/
caregiver) satisfaction

Treatment of modifiable risk factors and comorbidities

Non-pharmacological strategies

Asthma medications (adjust down/up/ between tracks)

Education & skills training

GINA 2023 - Children 5 years and younger

Personalized asthma management:

Assess, Adjust, Review response

Symptom control & modifiable risk factors
Comorbidities
Inhaler technique & adherence
Parent/caregiver preferences and goals



Symptoms
Exacerbations
Side-effects
Risk factors
Comorbidities
Parent/caregiver
satisfaction

Treat modifiable risk factors and comorbidities Non-pharmacological strategies Asthma medications Education & skills training

Exclude alternative diagnoses

Asthma medication options:

Adjust treatment up and down for individual child's needs

PREFERRED CONTROLLER CHOICE

Other controller options (limited indications, or less evidence for efficacy or safety)

RELIEVER

CONSIDER
THIS STEP FOR
CHILDREN WITH:

STEP 2

Daily low dose inhaled corticosteroid (ICS) (see table of ICS dose ranges for pre-school children)

ADJUST

Daily leukotriene receptor antagonist (LTRA), or intermittent short course of ICS at onset of respiratory illness

STEP 3

Double 'low dose' ICS (See Box 6-7)

Low dose ICS + LTRA Consider specialist referral

Add LTRA, or increase ICS frequency, or add intermittent ICS

As-needed short-acting beta2-agonist

Infrequent viral wheezing and no or few interval symptoms

STEP 1

(Insufficient

controller)

evidence for daily

Consider intermittent

short course ICS at

onset of viral illness

Symptom pattern not consistent with asthma but wheezing episodes requiring SABA occur frequently, e.g. ≥3 per year. Give diagnostic trial for 3 months. Consider specialist referral. Symptom pattern consistent with asthma, and asthma symptoms not well-controlled or ≥3 exacerbations per year.

Asthma diagnosis, and asthma not well-controlled on low dose ICS

Asthma not well-controlled on double ICS

STEP 4

Continue

controller & refer

for specialist

assessment

Before stepping up, check for alternative diagnosis, check inhaler skills, review adherence and exposures

Box 6-6 © Global Initiative for Asthma, www.ginasthma.org

Asthma Control Symptom and Risk Assessment

Box 6-5. GINA assessment of asthma control in children 5 years and younger

A. Symptom control		Level of asthma symptom control		
In the past 4 weeks, has the child had:		Well controlled	Partly controlled	Uncontrolled
Daytime asthma symptoms for more than a few minutes, more than once a week?	Yes□ No□]	None	1–2	, 3–4
Any activity limitation due to asthma? (Runs/plays less than other children, tires easily during walks/playing?)	Yes□ No□			
SABA reliever medication needed* more than once a week?Yes		of these	of these	of these
Any night waking or night coughing due to asthma?	Yes□ No□			



