

GUIDE TO DIAGNOSIS & MANAGEMENT OF ASTHMA

- ❑ **Recurrent wheezing is 3 or more episodes in a year**
- ❑ **Main causes of recurrent wheezing in children are**
 - Asthma
 - Infections such as bronchiolitis
 - Gastro-oesophageal reflux
 - Enlarged hilar lymph nodes e.g., TB.
- ❑ The majority of children with **recurrent wheeze** have **asthma**.
- ❖ **Asthma should be diagnosed in any child with a recurrent cough or wheeze that is responsive to bronchodilators.**

DIAGNOSIS

Consider asthma if:

- ❑ History of:
 - recurrent **wheezing**
 - **chronic cough** worse at night
 - colds that “**go to the chest**”
 - **cough** occurring after **exercise**
- ❑ Symptoms worse at **night**
- ❑ Symptoms occur or worsen in the presence of:
 - colds
 - animals with fur
 - smoke
 - changes in weather
 - pollen
 - exercise
- ❑ A family history of asthma or allergies
- ❑ Symptoms improve after giving a bronchodilator

CLASSIFY TYPE OF ASTHMA

Classify according to symptoms

- ❑ **intermittent** asthma
- ❑ **persistent** asthma (symptoms more than once a week or nighttime symptoms more than twice a month).
 - children with persistent asthma should be referred for chronic management

TREAT

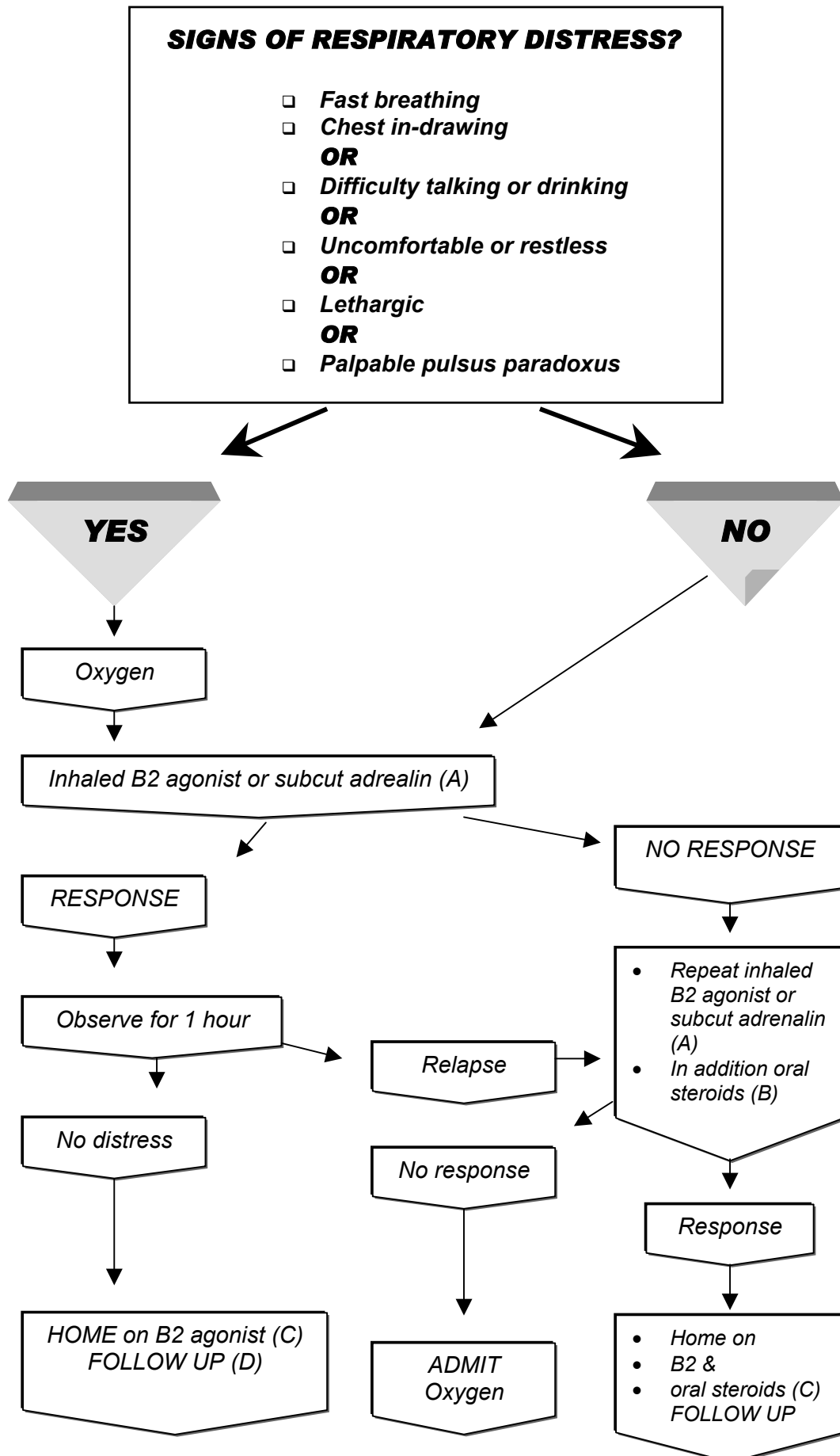
Treatment includes:

- ❑ **Avoid** asthma triggers
- ❑ **Prophylaxis** (prevent) attacks
- ❑ **Relief** of acute asthma attacks
- ❑ **Inhaled** B2 agonist should be used for relief of acute attacks given via:
 - MDI-spacer and face mask in children < 2 years
 - MDI-spacer and mouth piece in children > 2yrsInhaled B2 agonist should be used as:
 - salbutamol 200-500ug (2-5 puffs) at 1 puff every 10 secs via MDI-spacer *or*
 - salbutamol solution (1ml in 2ml normal saline) via nebuliser

REFER

- ❑ Children with **persistent asthma**
- ❑ Children with **difficult to control asthma**
- ❑ Children with **a poor response** to treatment
- ❑ Young infants **less than 3 months** of age

TREATMENT OF AN ACUTE ATTACK OF WHEEZING IN A CHILD WITH RECURRENT WHEEZE



(A) INHALED BRONCHODILATOR

- ❑ Salbutamol nebuliser soln (5mg/ml) or other B2 agonist
1 ml in 2ml normal saline
- OR
- ❑ Salbutamol MDI (100ug/ puff) 5 puffs via spacer given as
1 puff every 10secs
- OR
- ❑ Subcutaneous Adrenalin
Adrenalin (1:1000) 0.01ml/ kg to max of 0.3ml given
subcutaneously

(B) ORAL STEROID

- ❑ Prednisone (5mg/ tab) 1-2 mg/kg

(C) HOME TREATMENT

- ❑ Salbutamol (or other B2 agonist) MDI & spacer 2 puffs
(200ug) four times a day for 5 days *or if unavailable*
Salbutamol 1mg po tds if < 1 yr for 5 days
Salbutamol 2mg po tds if > 1 yr for 5 days
- ❑ Advise not to smoke in house
AND if 2 inhaled bronchodilator treatments were given
- ❑ Prednisone (5mg/ tab) 1-2 mg/kg/day for 5 days
If more than 2 course of prednisone were required in prior 4
months, REFER
- ❑ **No antibiotics are needed for treatment of asthma**
- ❑ Continue any maintenance asthma therapy

(D) FOLLOW UP

- ❑ Caregivers should seek help IMMEDIATELY if:
 - Child's breathing becomes difficult
 - Child's breathing becomes fast
 - Child is unable to eat or drink
 - Child becomes lethargic or restless
 - Child becomes blue or very pale
- ❑ REFER for long term management of children with persistent
asthma

Contributors