Childhood asthma

Epidemiology

Affects 15% of children

'hygiene hypothesis'

Atopy rising

Clinical diagnosis if under 6

Red Flags

SaO2 < 90%
Inability to talk or count to 5
Altered consciousness
Agitation
Bradycardia
Poor respiratory effort
Silent chest
Cyanosis

<u>References</u>

- •National asthma programme guideline 2012
- BTS /SIGN CG 101 2011
- •GINA guidelines 2010
- •Irish Asthma Society website

History

- duration/frequency of coughing +/- wheeze
- treatments tried
- Trigger factors
- family history of atopy
- parental understanding



Examination

- ability to talk
- assess mental status
- Respiratory rate
- use of accessory muscles of respiration
- pulse rate BP
- Chest hyperinflation



Investigations

- CXR only if severe
- pulse oximetry
- blood gases if lifethreatening
- PEFR unhelpful in acute asthma



Treatment

- Oxygen if sats< 90%
- prednisolone 1mg/kg/d for 3 5 days
- spacer preferable to nebulizer (salbutamol 6 puffs if under 6 years. -10 - 12 puffs if over 6 years, every 15 mins)
- •If poor response refer to hospital

TAKE HOME MESSAGES

Prevalence of asthma is increasing
Education/empowerment re background control is vital Age-appropriate inhaler devices
Allergen avoidance

disappointing

Allergen reduction

·Avoid smoking
·HDM reduction
(carpet removal
,high temp wash
of bed linen ,
good
ventilation,
remove soft
toys ,cover
mattress , avoid
duvets)

Specialist referral if:

Symptoms
from birth
FTT
Nasal polyps
ICS >
400ug/day
If diagnosis in
doubt

Background control

- number of steroid courses / ER /GP visits
- •Nocturnal and exercise- induced symptoms
- Daily symptoms
- •School days missed
- •Frequent beta 2 agonist use

This algorithm has been produced by the National Paediatric and Neonatology Clinical Programmes. It is aimed at medical, nursing and allied health professionals working in both primary and emergency care settings.

Amendments following suggestions by QIP committee of ICGP . Secondary care denoted in pink

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