

## V0.18: IUC CAS Mild Paediatric Asthma Pathway – for use in children aged 5 – 16 years old (GP ONLY)

Telephone/Video review of current clinical status (this may have changed/deteriorated since original triage)

**Video Consultation must be used if available – If no video then will need F2F for anything other than mild asthma**

### Assessment:

**A:** Able to complete sentences? Audible wheeze (stridor/ other added sounds)

**B:** Respiratory Rate (carer to count or clinician to count if video available) faster than normal? Peak Expiratory Flow (PEF) & calculate PEF% compared with predicted/best, WOB (accessory muscles, nasal flare, tracheal tug, abdominal breathing, tripodding), cough

**C:** Warm peripheries / colour / carer to perform Capillary Refill time - press down for 5 sec and release (<2s is normal)

**D:** Level of consciousness – Normal behaviour? Drowsy? Confused?

What medication/dose has been administered already? (inhaler? spacer used?)

**Always consider other Dx e.g. LRTI/Croup/Foreign body/Epiglottitis/Anaphylaxis/ Sepsis**

**Mild Asthma in patients aged 5 to 16 years old with a confirmed diagnosis of asthma with no exclusion criteria (see box on right)**

### Mild Symptoms

#### Decision regarding need for Urgent Treatment

#### History taking (Full Asthma Hx on Page 3)

**HPC:** duration of symptoms, are symptoms worsening, previous help sought, treatment used, is treatment working/are inhalers effective, triggers, associated symptoms (fever, rash, coryzal, covid symptoms), appetite, fluid intake, activity level, urine output

**PMHx:** other conditions, admissions to hospital/ITU, recent D/C

**DHx:** inhaler use, steroid use, other meds, epipen, immunisations

**Allergies:** atopy, allergies, anaphylaxis

**Other:** what's normal for this child? Level of concern/anxiety; capacity/experience of carer to manage child at home

Close monitoring at home for 4 hrs +/-Salbutamol administration.

If deteriorates at any time give up to 10 puffs of Salbutamol and call back 111 for urgent assessment. If deterioration is significant call 999.

**Check if adequate Salbutamol supply available at home – if not, ePrescription to local pharmacy or urgent referral to primary care if F2F needed or no pharmacies open.**

**Safety-net or book 4hr review if needed**

**Advise GP r/v in 24-48 hrs**

**If carer or clinician has any doubts/ concerns/ communication issues – refer for immediate F2F assessment**

### Exclusion criteria

**Immediate referral to local ED for all cases even if classified as mild if:**

- Treatment not working/ineffective (relief not lasting up to 4 hrs or at any point needed 10 puffs of Salbutamol)
- Patient on oral maintenance steroids
- Hx of Severe or difficult to treat asthma
- Hx of high dose SABA in the preceding hrs or days or SABA not effective
- Previous IV therapy
- Recent discharge or interactions with GP/ED or 111
- PICU/PCCU admissions
- Comorbidities eg. Previous pneumothorax
- If stated in personalised asthma plan to attend ED for any degree of exacerbation
- History of poor compliance
- Significant parental anxiety
- Communication issues/concern regarding carers ability to manage child at home
- Safeguarding concerns

### Patient call back/ 4 hour review

- Reassess using ABCD with PEF and Sats if available (see assessment box above) and manage/refer as appropriate
- If no further tx needed over 4hrs then continue PRN Salbutamol and close monitoring at home
- If needing 4 hourly Salbutamol or more regularly or 10 puffs then requires ED assessment.
- Consider ePrescription for course of steroids and inhalers (depending on supply and used by dates) /spacer/ PEF meter
  - 3 day course of soluble prednisolone 1mg/kg (max 40mg).
- Book F2F appointment in primary care setting within 24-48hrs (annual review/ compliance/ education/ inhaler and spacer tech/ assess need for secondary referral) - *If this falls in OOH period book appt with OOH for review only*

**Information on the assessment of higher acuity presentations and/or any deterioration since initial assessment**

Moderate Asthma	Acute severe Asthma	Life-threatening Asthma
<b>BTS Assessment of Asthma Severity</b>		
<b>NB. If a patient has signs &amp; symptoms across categories, always treat according to most severe features</b>		
<p align="center"> <b>Alert, active</b>  <b>Able to talk in full sentences</b>  <b>Drinking fluids</b>  <b>Resp rate &lt;30</b>  <b>Requiring 6-10 puffs SLB/ 4 hrs</b> </p> <p align="center"> <b>NO FEATURES OF ACUTE SEVERE ASTHMA</b> </p> <p align="center"> <b>If PEF / Sats probe available:</b> </p> <p align="center"> <b>SpO2 &gt;92%</b>  <b>PEF &gt;50% best or predicted</b> </p>	<p align="center"> <b>Unable to complete sentences in one breath</b>  <b>Use of accessory muscles</b>  <b>Respiratory rate of &gt;30/min</b> </p> <p align="center"> <b>If PEF / Sats probe available:</b> </p> <p align="center"> <b>SpO2 &lt;92%</b>  <b>PEF 33-50% best or predicted</b>  <b>HR &gt;125/min</b> </p>	<p align="center"> <b>Poor respiratory effort</b>  <b>Drowsiness/exhaustion</b>  <b>Confusion</b>  <b>Cyanosis/Colour change</b> </p> <p align="center"> <b>If PEF / Sats probe available:</b> </p> <p align="center"> <b>SpO2 &lt;92%</b>  <b>PEF &lt;33% best or predicted</b> </p>
<p align="center"><b>Refer to emergency department</b></p>	<p align="center"><b>Category 2 ambulance</b></p>	<p align="center"><b>Category 1 ambulance</b></p>
<p align="center"> <b>Safety net advice:</b>  <b>If patient deteriorates at any time prior to arrival at ED advise up to 10 puffs of Salbutamol and dial 999</b> </p>	<p align="center"> <b>Safety net advice:</b>  <b>If patient deteriorates prior to ambulance arrival call 999</b> </p>	<p align="center"> <b>Safety net advice:</b>  <b>If patient deteriorates prior to ambulance arrival call 999</b> </p>

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**Detailed Asthma History**

**No Current Dx of Asthma – Is this Asthma?**

✓ One or more of: wheeze, cough, difficulty breathing and chest tightness	✓ Frequent and recurrent symptoms - Worse at night and in the early morning
✓ Exacerbation of symptoms (post exercise/exposure to pets/cold/damp air/ with emotions/ laughter)	✓ Personal history of atopy
✓ History of improvement in response to adequate therapy (suggesting reversibility)	<b>If there are clinical features which do not fit the pattern, consider alternative diagnoses to rule out other serious conditions such as cystic fibrosis etc.</b>

**Previously confirmed Asthma Dx:**

✓ Last asthma r/v? and care provider?	✓ Do they have a written asthma plan?	✓ Age at Dx	✓ PEF diary
✓ Current medication: preventer/reliever/ usage/compliance /number of repeat prescriptions ( <i>having &gt; 6 relievers per yr</i> ) /spacer/ technique/ are medications in date/ adequate supply/ number of steroids courses over last year/ number of courses of Abx in last year/ Epipen	✓ Hx of Recurrent chest infections Pneumonia (Oral Abx courses/Admissions for IV ABx)	✓ Identify modifiable risk factors and known triggers?	✓ Admissions? Recent attendance at GP/ED/ or admission
✓ Missed school days	✓ GP/ED attendances in last year	✓ Previous for IV therapy	✓ PICU admissions

**Full PMHx including:**

<b>Antenatal/ BHx/ 1<sup>ST</sup> year of life</b>  Gestation, ventilated, Hx of CLD, Home O2 GOR / Hx Swallow difficulties/ aspiration Failure to thrive (Plot Wt) Bronchiolitis	<b>Other comorbidities</b>  Not forgetting - Obesity/ snoring/ sleep apnoea/ nasal polyps	<b>Atopy Hx:</b>  Eczema – well mx/ current flare/ known to dermatologist/ medication Hayfever – well mx/ medication Allergic Rhinitis – well mx/ Medication Food allergies Anaphylaxis Hx Epipen – do they have 2x in date (good knowledge of how to administer?)	<b>DHx:</b>  Full – including previous Asthma regimes / ?NKDA  <b>Imms:</b> UTD  <b>FHx:</b> Family Hx of Atopy	<b>SHx:</b>  Living conditions - Smokers/Pets/sleeps in bunk bed (lower bunk)/carpets Education/Development Known vulnerabilities in this family (SW, CP, CIN, MASH, MARAC) Travel Hx
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