Wessex Adult Asthma Guidelines 2021

Where possible use DPI instead of pMDI due to environmental concerns



lessex Asthma

Inhaler prices correct at time of print. Prices may be subject to change. Prices based on 30 day inhaler use other than reliever inhalers which reflect unit cost. Prescribe by brand. Cheaper generic alternatives may be recommended.

Wessex Adult Asthma Guidelines 2021



Diagnosis

- Typical asthma symptoms include wheeze, shortness of breath, chest tightness and cough which vary over time and in intensity, often being worse at night and early in the morning
- Asthma triggers may include infections, exercise, exposure to allergens or irritants, changes in weather and some medications including Aspirin/NSAIDs/B-Blockers
- Wheeze should be confirmed by a healthcare professional
- Remember to record and code:
 - Triggers
- Atopic history and family history
- Occupational exposure and smoking history
- Quality assured spirometry using lower limits of normal to ascertain obstruction
- FeNO level where this is available
- Check for variable and/or reversible air flow obstruction:
- Average diurnal Peak Expiratory Flow (PEF) variation of >20%. (calculator available @ http://wessex-asthma.com/)
- FEV₁ ≥12% and 200 ml increase after Short Acting β-Agonist (e.g. Salbutamol 400 mcg by pMDI with spacer), or after a 14 day Prednisolone trial (30mg/day)
- Normal spirometry does not rule out asthma
- Check for evidence of T2 inflammation (steroid sensitive):
- FeNO level ≥40ppb is supportive of a diagnosis of asthma
- Review full blood count for evidence of raised eosinophils (>0.3 x10⁹/L)
- Assess asthma control using ACQ, ACT or RCP 3 questions
- Start all patients on ICS appropriate to level of severity and step up incrementally if symptoms are not controlled after 6 weeks
- Where diagnosis is not clear exclude alternative cause of symptoms (e.g. rhinitis, Asthma COPD overlap, GORD)

Think Carbon

- 1 mile driven by an average car is equivalent to 290gCO₂Eq¹
- DPIs have a lower carbon footprint than pMDIs
- Minimise the number of inhalers required e.g. 1-puff twice a day regime of a higher dose ICS may be more cost-effective and environmentally friendly
- SABA overuse is a major contributor to the NHS carbon footprint
- Encourage patients to return their used inhalers to their Pharmacy for recycling or appropriate disposal. Inhalers put in household waste will end up in landfill

Asthma Reviews

- Provide a written <u>personalised asthma action plan</u> to empower self-management (using PEFR monitoring and symptoms):
- PEFR < 80% best consider increasing ICS
- PEFR < 60% best start oral steroids and seek advice
- PEFR < 40% best seek urgent medical attention
- Assess symptom control (RCP 3 questions, ACT, ACQ) and frequency of reliever medication usage (including additional doses in a MART regime)
- Features of poor control include:
 - Daytime symptoms \geq 3 times per week
- Night-time awakening \geq 1 per week
- − The use of rescue medication \ge 3 times per week or using \ge 3 SABA inhalers/year
- Asthma attacks \geq 1 per year
- Document frequency and severity of asthma attacks and time off work
- Assess lung function (PEFR or FEV₁) and FeNO (where possible) to guide treatment. Lung function should be recorded at diagnosis, 3-6 months after starting treatment and then at least every 1-2 years after that
- Advise on trigger avoidance and the difference between good and poor asthma control
- Check patients' understanding of their treatment
- Check and demonstrate inhaler technique and adherence at every opportunity. If appropriate ensure using spacer with pMDI and cleaning/storing correctly
- Minimise numbers/type of inhaler devices where clinically available
- Use devices with dose counters where appropriate
- Encourage to stop smoking where relevant and offer help at every opportunity
- Assess and treat associated comorbidities (e.g. GORD, rhinitis)
- Offer dietary advice for overweight patients
- Offer annual flu vaccine
- If patient is well controlled for 3-6 months, consider stepping down treatment
- Listen and answer any questions or concerns from patients and carers
- All patients on high-dose ICS should be issued with a steroid alert card

Remember to check adherence to treatment, inhaler technique and provide a written asthma action plan prior to any treatment change.

Refer to Secondary Care**

- Persistent poor asthma control despite medium dose ICS/LABA
- \geq 6 SABA inhalers in last 12 months despite primary care review
- ≥ 2 asthma attacks requiring oral steroids in last 12 months
- Hospital admission or life threatening asthma attack
- Suspected occupational asthma
- Poorly controlled asthma in pregnancy
- The diagnosis is unclear or unexpected clinical findings e.g. finger clubbing, stridor, crackles in the chest, monophonic wheeze
- Persistent productive cough (especially if recurrent bacterial infections are confirmed on sputum cultures)
- Unexplained restrictive spirometry or abnormalities on chest CXR
- Complex comorbidity preventing accurate assessment of asthma control
- · Poor response to treatment or unable to tolerate treatment
- Non-acceptance of diagnosis or persistent non-adherence
- When referring to secondary care on medium dose ICS/LABA:

Is there evidence of T2 high disease?

- Blood eosinophils $\geq 0.3 \times 10^{9}$ /L
- FeNO ≥25ppb
- Nasal polyps
- Allergic, associated atopic conditions (e.g. allergic rhinitis, eczema) or childhood onset of asthma



Trial high dose ICS/LABA combination

Trial LAMA alongside medium dose ICS/LABA

- If there is diagnostic doubt do not increase treatment where possible as may affect subsequent diagnostic tests
- When making a referral please include details of the prescription pick-up for ICS or ICS/LABA, OCS courses and SABA use in the last 12 months for adherence assessment

Useful Links

- 1. NICE patient decision aid: www.nice.org.uk/guidance/ng80/ resources/inhalers-for-asthma-patientdecision-aid-pdf-6727144573
- BTS/SIGN asthma guidelines: www.brit-thoracic.org.uk/standards-ofcare/guidelinesbtssign-british-guideline-onthe-management-of-asthma/
- Gina (Global Initiative for asthma): ginasthma.org/pocket-guide-for-asthmamanagement-and-prevention/
- 4. Right Breathe: www.rightbreathe.com
- Smoke free Hampshire: www.smokefreehampshire.co.uk
- 6. Asthma UK: www.asthma.org.uk