Y Grŵp Gweithredu ar lechyd Anadlol Respiratory Health Implementation Group



The All Wales Asthma Diagnosis Guideline

STEP 1 INFORMATION:

ASSESSMENT

Asthma likelihood checklist

Episodic cough, wheeze (particularly recorded observation of wheeze by a health care professional), breathlessness, chest tightness

Diurnal variation, symptoms often worse at night/morning

Triggers including allergens, exercise, occupation, cold air, viral infections

Associated rhinitis, atopy (hay fever, eczema)

Childhood asthma or family history asthma

Consider differential diagnoses/co-morbidities

Consider conditions that may mimic asthma:

- Obesity or poor fitness
- Anxiety or hyperventilation
- Chronic obstructive pulmonary disease
- Gastro-oesophageal reflux disease
- Upper airway abnormalities
- Bronchiectasis
- Heart failure

STEP 3 INFORMATION:

DIAGNOSIS

Asthma diagnosis confirmed

Document in notes:

- Start treatment step 1*.
 Record objective measure of control pre treatment (e.g. ACQ, ACT, RCP 3 questions)
- Ensure patient is booked for review of symptoms/ response to treatment (maximum 3 months)
- Give asthma education including inhaler technique and Personalised Asthma Action Plan (paper or electronic via NHS Wales Asthmahub app)
- Advice on: Asthmahub
 - Smoking cessation
 - Flu vaccination
 - WeightExercise

Asthma diagnosis not confirmed

If asthma diagnosis not confirmed consider:

- Alternative diagnosis
- Repeating objective tests
- Referral to secondary care

Clinical Pathway

Also available in digital forma

RHIG Publication date:



The All Wales Asthma Diagnosis Guideline

CORE PRINCIPLES

The diagnosis of asthma is a clinical diagnosis supported by tests of airway obstruction, hyper-responsiveness and inflammation.

BTS and NICE guidelines both support the use of objective testing to improve the accuracy of asthma diagnosis.

STEP 1: ASSESSMENT

Symptoms checked?

STEP 2: PERFORM INVESTIGATIONS

Demonstrate evidence of variable airflow obstruction (+/- airway inflammation) – check spirometry and peak flow diary

Ideally perform prior to starting treatment

If clinical urgency then treat accordingly (e.g. treat exacerbation +/start step 1 therapies) and organise confirmatory investigations

Spirometry and bronchodilator reversibility

Peak flow diary

Exhaled nitric oxide (FeNO) (Where available)

STEP 3: DIAGNOSIS

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Asthma diagnosis confirmed

Asthma diagnosis not confirmed

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STEP 4: REVIEW

- Ensure patient has had expected response to asthma therapy if poor response re-consider diagnosis, concordance and inhaler technique
- Review annually if asthma well controlled
- Review after 3 months if any change to treatment or exacerbation/ sub-optimally controlled symptoms
- Consider stepping down if well controlled

* All Wales Adult Asthma Management Guidelines

RHIG Version: 1

Dece

STEP 2 INFORMATION:

PERFORM INVESTIGATIONS

Spirometry and bronchodilator reversibility

Perform baseline spirometry off inhaled therapy are BD

Asthmatics may have normal spirometry when well

If pre BD spirometry shows obstruction (FEV1/FVC ratio below 0.7 OR LLN) perform reversibility

Reversibility is defined as

12% (and >200mls) increase in FEV1 in response to either:

- short acting bronchodilato
- steroid trial (6 weeks ICS or 2 weeks oral prednisolone 40mg)

than one occasion if initial test is negative and strong clinical suspicion of asthma

Peak flow diary

Complete 2-4 week peak flow diary

A single peak flow is inadequate

Evidence of 20% peak flow variability supports asthma diagnosis. Once on treatment with ICS expect peak flow to increase and variability reduce

Exhaled nitric oxide (FeNO)

FeNO >40 consistent with asthma (steroid naive)

Note: High FeNO is not diagnostic for asthma and has other causes e.g. rhinitis

A negative test does not exclude asthma

See RHIG FeNO consensus document & NICE NG80

Use flow charts for asthma diagnosis as per NICE NG80



ACT: Asthma Control Test

ACQ: Asthma Control Questionnaire

BTS: British Thoracic Society

FeNO: Fractional Expired Nitric Oxide

FEV1/FVC ratio: Forced Expiratory Volume in one second
FEV1/FVC ratio: Forced Expiratory Volume in one second over

Fored Vital Capacity represented as a ratio

ICS: Inhaled Corticosteroid
LLN: Lower Limit of Normal

NICE: National Institute for Health and Care Excellence

Pre BD: Pre bronchodilator

RCP: Royal College of Physicians

RHIG: Respiratory Health Implementation Group



More information at icst.info/the-all-wales-asthma-diagnosis-guideline