NEL Primary care management of asthma in Adolescents aged 12 to 17 years



(Adapted from BTS, NICE and SIGN guideline on asthma)

Consider and try to address the possible reasons for uncontrolled asthma before starting or adjusting medicines for asthma. For example: alternative diagnoses or comorbidities; suboptimal adherence; suboptimal inhaler technique; active or passive smoking (including e-cigarettes); psychosocial factors; seasonal factors; environmental factors (such as air pollution and indoor mould exposure)

Symptom relief **MART**

Maintenance therapy

Newly diagnosed asthma in adolescents aged 12 to 17 Existing diagnosis of asthma on the treatment pathway recommended by previous NICE and BTS/SIGN guidelines Offer low-dose MDI *Symbicort® 100/3 Two puffs when required If highly symptomatic SABA only When changing **ICS/formoterol combination** or there are severe from low- or **DPI** Symbicort® 200/6 or DuoResp Spiromax® inhaler to be taken as exacerbations, offer Moderate-dose If asthma is uncontrolled on low-160/4.5 One puff when required needed (AIR therapy) **low-dose MART** ICS (or ICS/LABA With a dose ICS; low-dose ICS/LABA; low-If Asthma is If Asthma is controlled, consider stepping down combination SABA dose ICS plus LTRA; or low-dose uncontrolled. offer inhaler) plus ICS/LABA plus LTRA MDI Symbicort® 100/3 Two puffs once or twice daily (maintenance) supplementary Low-dose Consider + Two Puffs for symptom relief, max 24 in one day, max 12 at any one time therapy to MART, **MART** consider DPI Symbicort® 100/6 Turbohaler One puff twice daily (maintenance) or Symbicort® 200/6 If asthma is uncontrolled on whether to stop Turbohaler or Duoresp® Spiromax 160/4.5 One Puff once or twice daily (maintenance) If Asthma is moderate-dose ICS; moderate-dose or continue the uncontrolled, With a ICS/LABA; moderate-dose ICS plus supplementary offer + One Puff for symptom relief, max 12 in one day, max 6 at any one time SABA LTRA and/or LAMA; moderate-dose therapy based on ICS/LABA plus LTRA and/or LAMA the degree of **MDI** Symbicort[®] 100/3 Four puffs twice daily (maintenance) **Moderate-dose** benefit achieved Consider + Two Puffs for symptom relief, max 24 in one day, max 12 at any one time **MART** when first introduced If asthma is uncontrolled on high-dose ICS **DPI** Symbicort® 200/6 Turbohaler or Duoresp® Spiromax 160/4.5 Two Puffs twice daily If Asthma is (maintenance) uncontrolled, + One Puff for symptom relief, max 12 in one day, max 6 at any one time despite good adherence Refer a specialist in asthma care Check FeNO level, if available, and blood eosinophil count Refer to a specialist in asthma care If either is raised If neither is raised Any patients on an AIR or MART regime should have corresponding personalised asthma action plan (PAAP). If Asthma is uncontrolled, This plan should outline the number of doses they can have the maximum Consider a trial of either LTRA or LAMA used in addition to moderate-dose MART for 8 to 12 weeks unless there are side dose they can have at any one time and the maximum total dose they can effects. At the end of the trial: have in a 24-hour period. Patients should be advised to seek an urgent SMI Spiriva Respimat 2.5mcg Two puffs once daily • if asthma is controlled, continue the treatment medical review if they are regularly using close to their maximum doses. LTRA 12-14yrs Montelukast 5mg Once in the

• if control has improved but is still inadequate, continue the

and start a trial of the alternative medicine (LTRA or LAMA

Prescribe a spacer (without mask) annually with all MDIs.

if control has not improved, stop the LTRA or LAMA

Reinforce inhaler technique at every review

treatment and start a trial of the other medicine (LTRA or LAMA)

*Off label use. The decision to use the device must be made in collaboration with the family/young person based on an informed discussion

SABA in the conventional way

There is no role for the use of SABA in an AIR or MART PAAP. The one

exception to this is if the child/young person is in a situation where their

MART inhaler is not available (e.g. in school) treatment should be with

MDI, metered dose inhaler; DPI, dry powdered inhaler; SMI, soft mist inhaler; ICS, inhaled corticosteroid; LABA, long-acting beta₂ agonist; LAMA, long-acting muscarinic receptor antagonist; LTRA, leukotriene receptor antagonist; MART, maintenance and reliever therapy (using ICS/formoterol combination inhalers); SABA, short-acting beta2 agonist; AIR, anti-inflammatory reliever therapy (using ICS/formoterol combination inhalers).

Uncontrolled asthma: Any exacerbation requiring oral corticosteroids **or** frequent regular symptoms (such as using reliever inhaler 3 or more days a week or night-time waking 1 or more times a week)

evening, 15-17yrs Montelukast 10mg Once in the

evening