**Asthma management is an individualized, continuous cycle of assessment, treatment/adjustment, and review**

Assess

- Confirmation/evaluation of diagnosis, if necessary
- Symptom control & modifiable risk factors
- Comorbidities
- Patient goals & inhaler technique/adherence

Adjust

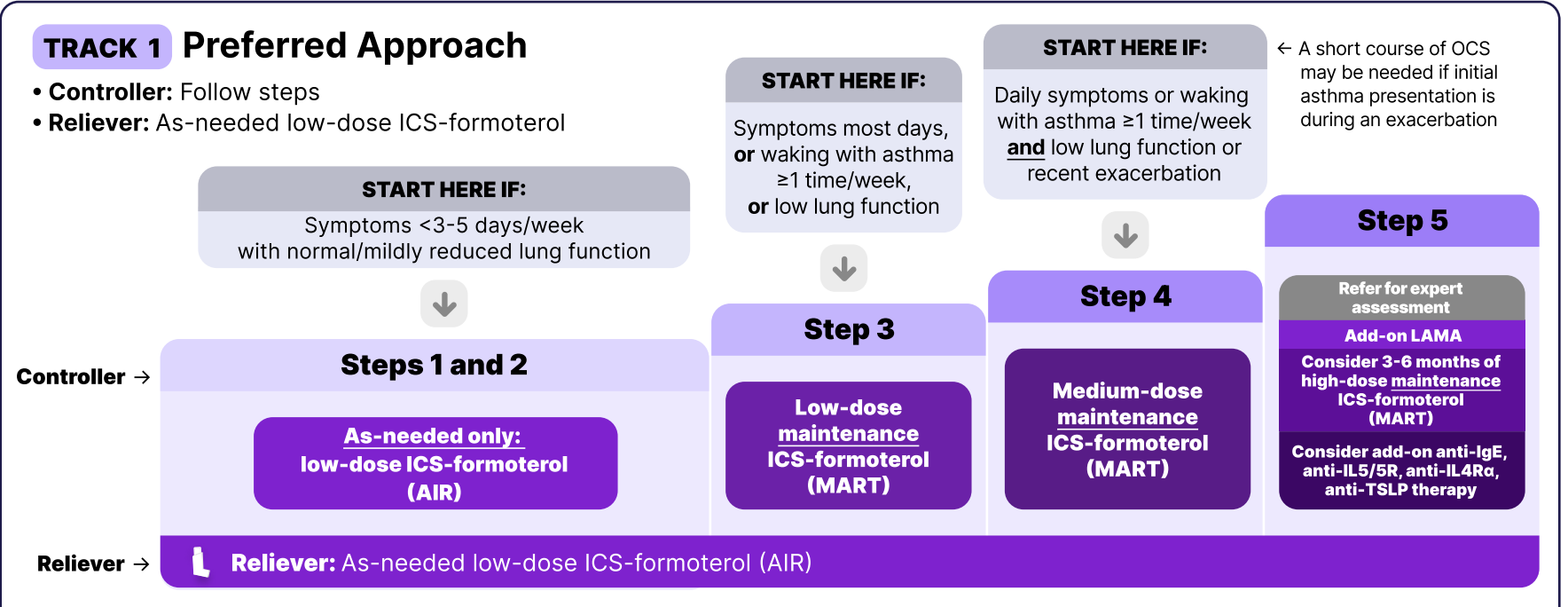
- Treat comorbidities & modifiable risk factors
- Utilize non-pharmacotherapy, if possible
- Add/adjust asthma medications
- Educate and train skills and proper use


Review

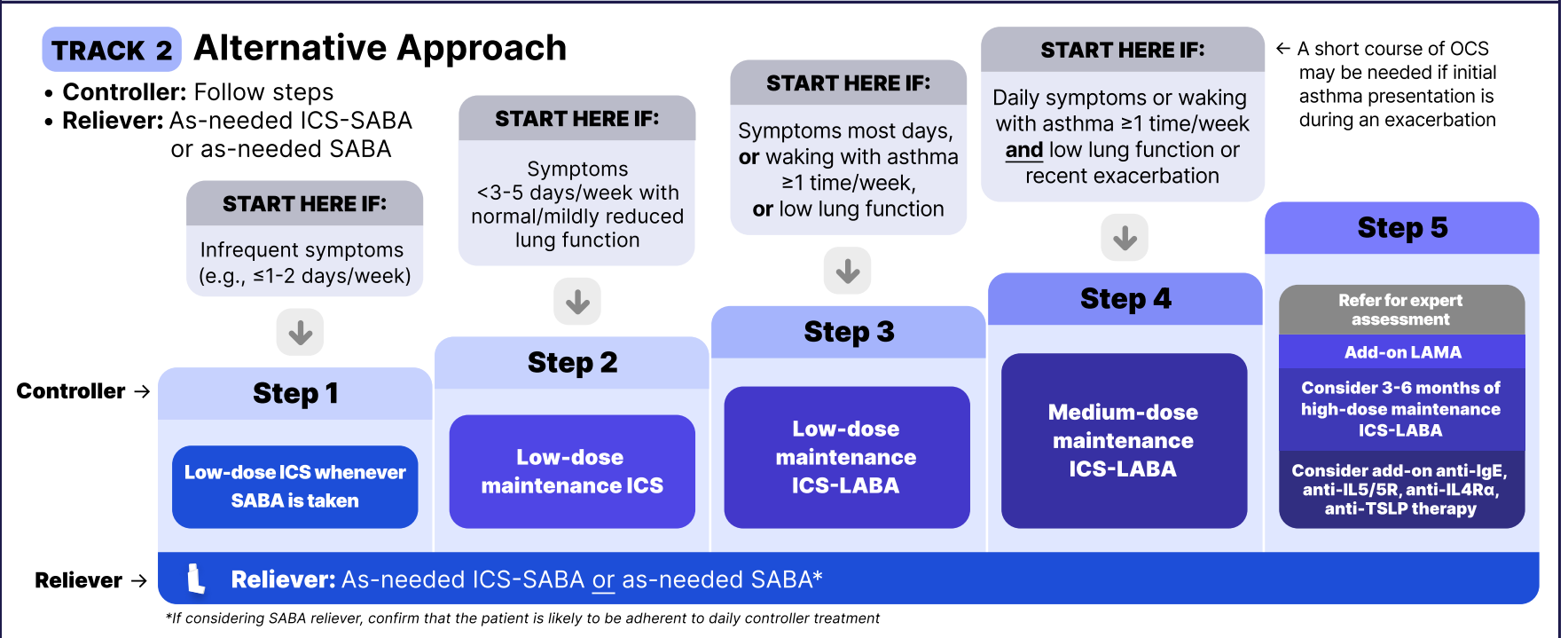
- Symptoms, exacerbations, side effects
- Comorbidities
- Lung function
- Patient satisfaction, quality of life
- Consider biomarkers

Repeat

- Assess
- Adjust
- Review



**The alternative approach (Track 2) is reasonable when:** preferred approach (Track 1) is not possible, patient is stable on their current therapy (e.g., no exacerbation within the past year), or alternate approach is preferred by the patient




Other Pharmacotherapy Options for either track

Note: Limited indications with less evidence for safety/efficacy; expert referral of patients with difficult-to-treat asthma should not be delayed by multiple different add-on trials

	Step 1 or 2	Step 3	Step 4	Step 5
Other Options →	<ul style="list-style-type: none">• Add HDM SLIT*• LTRA^• Daily low-dose ICS-LABA as the initial maintenance controller• Seasonal ICS if seasonal allergic asthma only; start at symptom onset & continue for 4 weeks after season ends	<ul style="list-style-type: none">• Add HDM SLIT*• Medium-dose ICS (i.e., ↑ from low-dose ICS; less effective than adding LABA)• Add LTRA or SR theophylline to low-dose ICS-containing regimen	<ul style="list-style-type: none">• Add LAMA to low-dose ICS-LABA, if uncontrolled symptoms w/medium-/high-dose ICS-LABA• Add HDM SLIT*• Add LTRA or SR theophylline to medium-/high-dose ICS	<ul style="list-style-type: none">• Add azithromycin to high-dose ICS-LABA, for adults• Add low-dose OCS (≤7.5 mg/day prednisone or equivalent; last-line for adults)

*SLIT may be considered if: sensitized to house dust mite, suboptimal asthma control with ICS, and FEV1 >70% predicted

^When considering LTRA, advise patients/caregivers regarding the potential risk of neuropsychiatric adverse events

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Assess

- Confirmation/evaluation of diagnosis, if necessary
- Symptom control & modifiable risk factors
- Comorbidities
- Patient goals & inhaler technique/adherence

Adjust

- Treat comorbidities & modifiable risk factors
- Utilize non-pharmacotherapy, if possible
- Add/adjust asthma medications
- Educate and train skills and proper use

Review

- Symptoms, exacerbations, side effects
- Comorbidities
- Lung function
- Patient satisfaction, quality of life

Repeat

- Assess
- Adjust
- Review

Children ages 6 to 11 years

- **Controller:** Follow steps
- **Reliever:** As-needed SABA or low-dose ICS-formoterol for MART (Steps 3 & 4)

START HERE IF:
Symptoms <2 days/week

START HERE IF:
Symptoms 2-5 days/week

START HERE IF:
Symptoms most days, or waking with asthma ≥1 time/week

START HERE IF:
Symptoms most days, waking with asthma ≥1 time/week, and low lung function

Step 1

Low-dose ICS whenever SABA is taken

Step 2

Daily low-dose ICS
(use child dose ranges)

Daily LTRA* or low-dose ICS whenever SABA is taken

Step 3

Low-dose ICS-LABA, or medium-dose ICS, or very low-dose ICS-formoterol (MART)

Low-dose ICS + LTRA*

Step 4

Consider referral for expert advice

Medium-dose ICS-LABA, or low-dose ICS-formoterol (MART)

Add tiotropium or add LTRA*

Step 5

Refer for expert assessment

Consider higher-dose ICS-LABA or add-on therapy (e.g., LAMA, anti-IgE, anti-IL5, anti-IL4Rα)

Consider add-on low-dose OCS (**last resort**)

Preferred Controller →

Other Controller → Options

Reliever →

Reliever: As-needed SABA or ICS-formoterol for MART as above in Steps 3 & 4

*When considering LTRA, advise patients/caregivers regarding the potential risk of neuropsychiatric adverse events

Children ages ≤5 years

- **Controller:** Follow steps
- **Reliever:** As-needed SABA

CONSIDER THIS STEP IF:
Infrequent acute wheezing (e.g., viral) and no or few interval symptoms

CONSIDER THIS STEP IF:
Asthma symptoms are not well-controlled (≥1 of the following):

- Daytime asthma symptoms ≥2 times/week
- Asthma-related night waking or night coughing
- SABA reliever needed ≥2 times/week
- Activity limitations due to asthma

OR
≥1 severe exacerbation in the past year

CONSIDER THIS STEP IF:
Asthma symptoms not well controlled on low-dose ICS

CONSIDER THIS STEP IF:
Asthma not well controlled on doubled dose of initial low-dose ICS

Step 1

Not enough evidence for daily controller

Step 2

Daily low-dose ICS
(use low ICS dose range approximations for children 5 years and younger)

Daily LTRA* or intermittent short course of ICS at onset of respiratory illness

Step 3

Double low-dose ICS

Consider specialist referral

Step 4

Refer for specialist assessment

Continue controller

Best treatment not established; options **specialist** may consider include add-on LAMA, add-on LTRA, or ICS-LABA

Preferred Controller →

Other Controller → Options

Reliever →

Reliever: As-needed SABA

*When considering LTRA, advise patients/caregivers regarding the potential risk of neuropsychiatric adverse events

ICS: inhaled corticosteroid; LABA: long-acting beta-2 agonist; LAMA: long-acting muscarinic antagonist; LTRA: leukotriene receptor antagonist; MART: maintenance and reliever therapy; OCS: oral corticosteroids; pMDI: pressurized metered-dose inhaler; SABA: short-acting beta-2 agonist

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