

Prevention of COPD Exacerbations

GRADE recommendations on mucolytics, LAMA vs. LABA, roflumilast, macrolides, and fluoroquinolones for exacerbation prevention in COPD.

2017 ERS/ATS Guideline
Prevention of COPD Exacerbations
Wedzicha et al. • Eur Respir J
2017;50:1602265

GRADE

Strong

Conditional For

Conditional Against

1 Oral Mucolytics

Cond.
Low

Moderate/severe airflow obstruction with exacerbations despite optimal inhaled therapy – treat with an oral mucolytic agent.

2 LAMA vs. LABA

Strong
Moderate

Moderate/severe obstruction (FEV1/FVC < 0.70, FEV1 30–79% pred) with ≥1 exacerbation in the past year – prescribe a **LAMA in preference to LABA** monotherapy.

3 Roflumilast

Cond.
Moderate

Severe/very severe obstruction (FEV1 < 50% pred) with chronic bronchitis symptoms and exacerbations despite optimal inhaled therapy – treat with **roflumilast**.

4 Macrolide Antibiotics

Cond.
Low

Moderate–very severe obstruction (FEV1 < 80% pred) with exacerbations despite optimal inhaled therapy – treat with a **macrolide antibiotic**. Assess cardiovascular risk (ventricular arrhythmias) before prescribing; no efficacy/safety data beyond 1 year.

5 Fluoroquinolones

Cond.
Moderate

Stable COPD, prevention purposes only – NOT suggested for the sole purpose of preventing exacerbations.

Rationale: places high value on avoiding unproven therapy given adverse-event and bacterial-resistance risk, lower value on potential exacerbation prevention.