COPD Tips for Therapy

Dationt Description	Coverity	Thorany (based on COLD 2017)
Patient Description	Severity	Therapy (based on GOLD 2017)
Symptoms • Breathless with strenuous exercise or when hurrying on the level or walking up a slight hill Exacerbations • 0 to 1/year (not leading to hospitalization)	mMRC 0 to 1 CAT < 10	Short acting bronchodilators Salbutamol Ipratropium Combination of both
 Symptoms Breathlessness: more severe than SOB when hurrying on the level or walking up a slight hill Exacerbations 0 to 1/year (not leading to hospitalization) 	mMRC ≥ 2 CAT ≥ 10	 LAMA or LABA + rescue inhaler LAMAs and LABAs similarly improve lung function, symptom control and quality of life. Choose either LAMA or LABA and if inadequate response, trial of the other. Use the 1 bronchodilator the patient prefers.
THERAPY BASED ON EXACERBATIONS AND SYMPTOMS		
 Exacerbations ≥ 2/year or ≥ 1 exacerbation requiring hospitalization/year Symptoms Breathless with strenuous exercise or when hurrying on the level or walking up a slight hill 	mMRC 0 to 1 CAT < 10	LAMA + rescue inhaler LAMA compared to LABA ^{Chong Cochrane Review 2012} • Fewer patients experiencing ≥ 1exacerbations per year NNT 29 (19 to 59) for 1 year • Fewer severe exacerbations leading to hospitalization (ARR 2%) If further exacerbations LAMA/LABA or LABA/ICS - both combinations decrease exacerbation rates vs. LABA but not vs LAMA alone. Farne & Welsh Cochranes LAMA/LABA compared to LABA/ICS Wedzicha FLAME 2016 • LAMA/LABA benefit in exacerbations and time to 1st exacerbation (all exacerbations and moderate or severe) • Fewer patients experiencing ≥ 1 exacerbation/year NNT 20 (13 to 44) for 1 year • No difference in exacerbations leading to hospitalization • More patients had benefit in quality of life NNT 18 (11 to 47) 1yr • Fewer cases of pneumonia with LAMA/LABA ARR 1.6%
 Exacerbations ≥ 2/year or ≥ 1 exacerbation requiring hospitalization/year Symptoms Breathlessness: more severe than SOB when hurrying on the level or walking up a slight hill 	mMRC ≥ 2 CAT ≥ 10	LAMA or LAMA/LABA or LABA/ICS + rescue inhaler **Persistent symptoms or further exacerbations** LAMA+ LABA/ICS LAMA+LABA/ICS vs LAMA**Rojas-Reyes Cochrane Review 2016 All cause hospitalization reduced NNT 20 (11 to 124) for 1 year Potential improvement in quality of life LAMA+LABA/ICS vs LAMA/LABA Insufficient evidence to make choice** NT 20 (11 to 124) for 1 year

CAT= COPD Assessment Tool (CAT>10 threshold for considering regular treatment for symptoms); mMRC = modified Medical Research Council

References are available in the document at http://www.medicine.dal.ca/departments/core-units/cpd/programs/academic-detailing-service.html
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