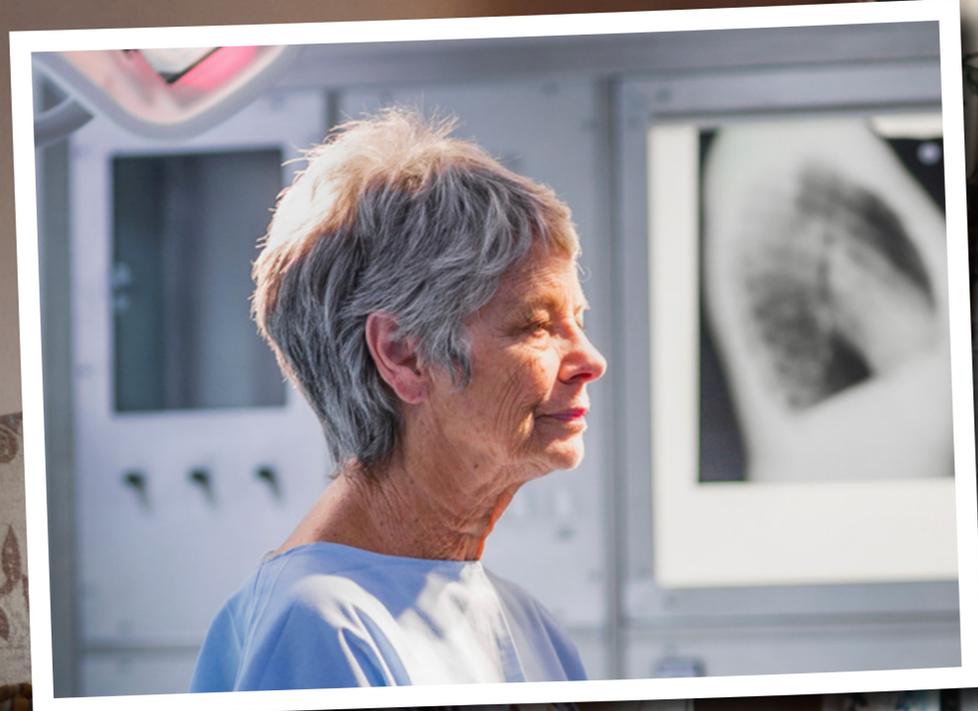


THE IMPACT OF COPD EXACERBATIONS GOES BEYOND THE LUNGS

**Protect your patients
by preventing
exacerbations today.**



ONE EXACERBATION IS ONE TOO MANY

FUTURE HOSPITALIZATION

21%

increase in being hospitalized after one moderate exacerbation¹

INCREASED CV EVENTS

2X

increase in the risk of myocardial infarction within 5 days of one moderate exacerbation²

EARLY DEATH

Up to

50%

of COPD patients will die within 3.6 years of one severe exacerbation³

FUTURE RISK

RISK OF CV EVENT

EXACERBATION FREQUENCY

EXACERBATION DEFINITION

SUMMARY

EXACERBATIONS DRAMATICALLY INCREASE THE RISK OF A **SUBSEQUENT CV EVENT**

FIRST 10 DAYS

40% increase in the risk of stroke
within 6-10 days²



FUTURE RISK

RISK OF CV EVENT

EXACERBATION FREQUENCY

EXACERBATION DEFINITION

SUMMARY

EXACERBATIONS DRAMATICALLY INCREASE THE RISK OF A **SUBSEQUENT CV EVENT**

OVER 1 YEAR

4X increase in the risk of a CV event the first 30 days^{4*}

90% increase in the risk of a CV event from 3 months to 1 year^{4*}



FUTURE RISK

RISK OF CV EVENT

EXACERBATION FREQUENCY

EXACERBATION DEFINITION

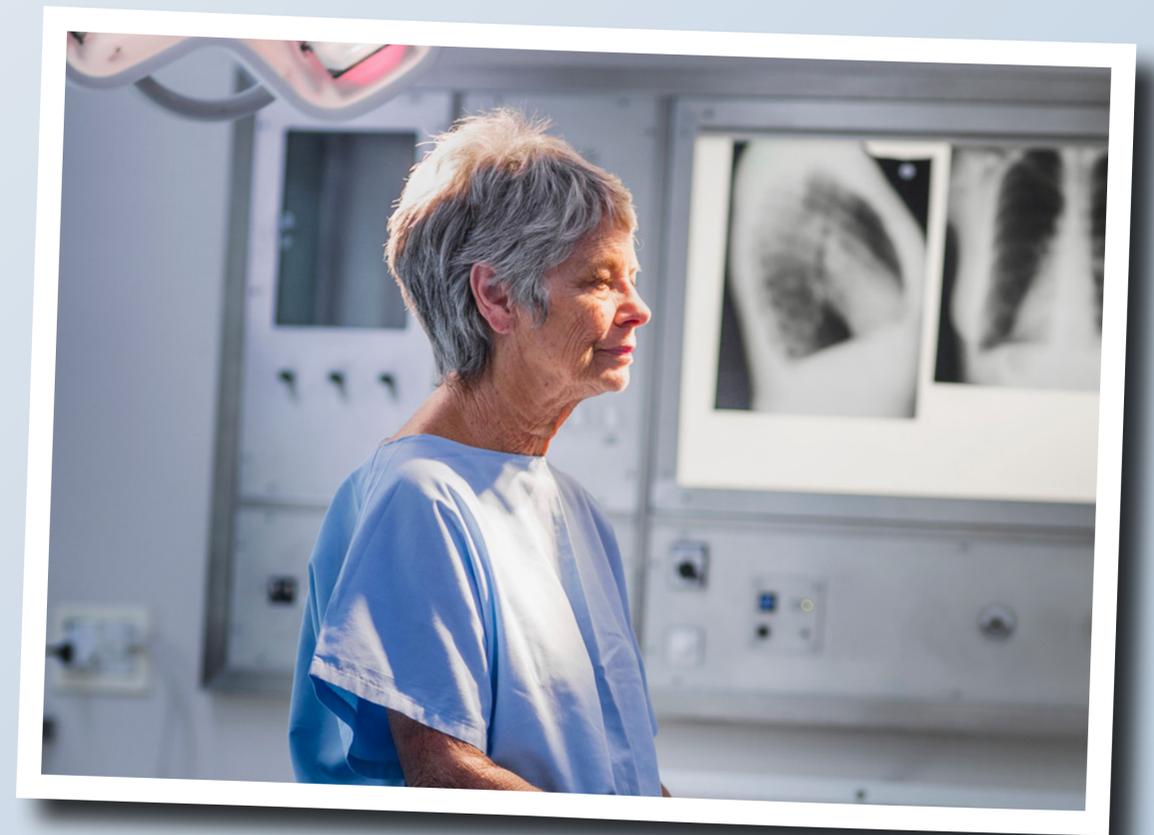
SUMMARY

* CV events included CV death, myocardial infarction, stroke, unstable angina, and transient ischemic attack. Increased risk was defined as cardiovascular disease or cardiovascular risk factors.

EXACERBATIONS DRAMATICALLY INCREASE THE RISK OF A **SUBSEQUENT CV EVENT**

AFTER HOSPITALIZATION

10X increase in the risk of a
CV event after a hospitalization^{4*}



FUTURE RISK

RISK OF CV EVENT

EXACERBATION FREQUENCY

EXACERBATION DEFINITION

SUMMARY

* CV events included CV death, myocardial infarction, stroke, unstable angina, and transient ischemic attack. Increased risk was defined as cardiovascular disease or cardiovascular risk factors.

EXACERBATIONS HAPPEN **MORE FREQUENTLY** THAN YOUR PATIENTS ACKNOWLEDGE

50% of symptomatic patients will experience a COPD exacerbation within the next year⁵

Each exacerbation has devastating effects on mental and emotional well-being⁵



FUTURE RISK

RISK OF CV EVENT

EXACERBATION FREQUENCY

EXACERBATION DEFINITION

SUMMARY

EXACERBATIONS HAPPEN **MORE FREQUENTLY** THAN YOUR PATIENTS ACKNOWLEDGE

~70% of exacerbations
are not reported by patients
with COPD despite their
significant impact⁶



FUTURE RISK

RISK OF CV EVENT

EXACERBATION FREQUENCY

EXACERBATION DEFINITION

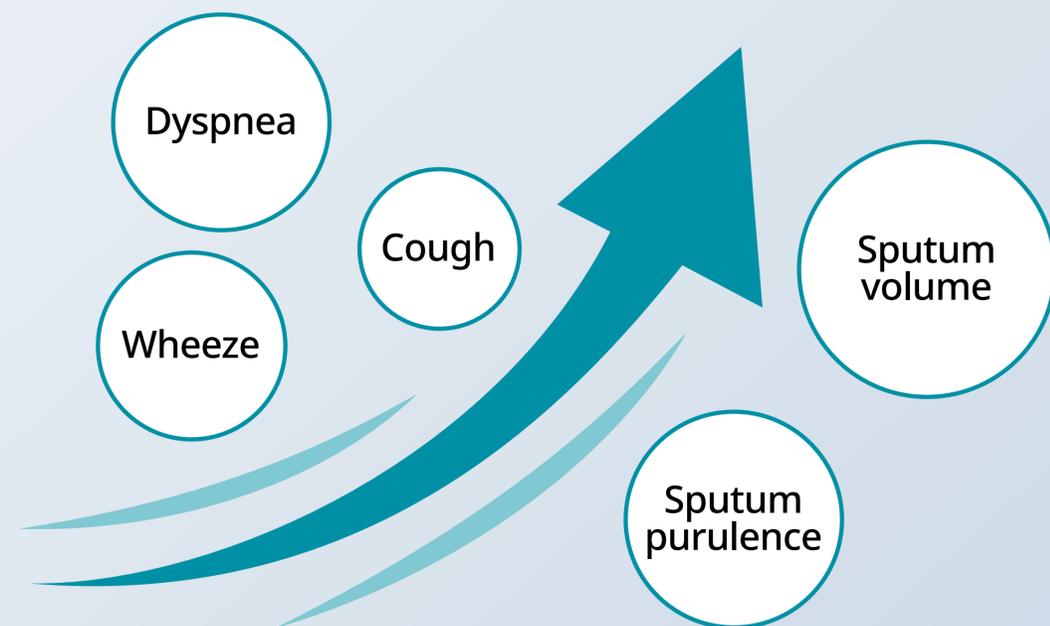
SUMMARY

COPD EXACERBATION: DEFINITION AND CLASSIFICATION

The CTS guidelines define a COPD exacerbation as an acute worsening of respiratory symptoms that may require the use of antibiotics and/or systemic corticosteroids and/or healthcare services.⁷

Worsening of symptoms⁸

Symptoms can last between 7 and 10 days, but some events may last longer



Exacerbation classification⁷



Mild

Worsening or new respiratory symptoms without a change in prescribed medications



Moderate

Prescription of an antibiotic and/or oral corticosteroids



Severe

Requires hospitalization or ED visit

FUTURE RISK

RISK OF CV EVENT

EXACERBATION FREQUENCY

EXACERBATION DEFINITION

SUMMARY

A SINGLE EXACERBATION CAN HAVE FAR-REACHING EFFECTS THAT GO BEYOND THE LUNGS¹⁻⁴



Future exacerbations



Poor quality of life



Future hospitalization



CV events



Death

Proactively optimize treatment in your patients with COPD

1. Rothnie KJ, et al. *Am J Respir Crit Care Med*. 2018;198:464–471. 2. Donaldson GC, et al. *Chest*. 2010;137:1091–1097. 3. Suissa S, et al. *Thorax*. 2012;67:957–963. 4. Kunisaki KM, et al. *Am J Respir Crit Care Med*. 2018;198(1):51–57. 5. Müllerová H, et al. *BMJ Open*. 2014;4(12):e006171. 6. Langsetmo L, et al. *Am J Respir Crit Care Med*. 2008;177:396–401. 7. Global Initiative for Chronic Obstructive Lung Disease. 2022 Report. Available at: <https://goldcopd.org/2022-gold-reports-2/>. 8. Bourbeau J, et al. Canadian Thoracic Society Clinical Practice Guideline on pharmacotherapy in patients with COPD – 2019 update of evidence. Available at: https://cts-sct.ca/wp-content/uploads/2019/10/CTS-COPD-Rx-2019-Guideline_Final.pdf.

FUTURE RISK

RISK OF CV EVENT

EXACERBATION FREQUENCY

EXACERBATION DEFINITION

SUMMARY