

## Incidence of cardiac arrhythmias in patients with moderate to severe chronic obstructive pulmonary disorder and their relationship to exacerbation

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### Abstract

COPD and CAD are both highly prevalent and share common risk factors. There is an increased prevalence of arrhythmias in patients with Chronic Obstructive Pulmonary Disorder (COPD) compared to the general population. Most of those arrhythmias, particularly atrial fibrillation, remain undiagnosed due to their paroxysmal nature. Incidence of atrial fibrillation is 1.8 times more common in the COPD and tends to be refractory to medical and ablative therapies. In addition, cardiovascular events are a leading cause of death in COPD patients, with new studies suggesting arrhythmias and sudden cardiac death are substantial contributors. COPD patients are at a higher risk for ventricular tachycardia (VT) and mortality, and the frequency of inappropriate implantable cardioverter-defibrillator (ICD) shocks is higher in COPD patient compared to non-COPD patients. Many of those patients present with complications associated with those arrhythmias namely acute stroke, syncope or even sudden death. The incidence of silent arrhythmias and the temporal relationship between arrhythmia occurrence and COPD exacerbation is not fully understood. Given the complex interplay of factors that may predispose COPD patients to arrhythmogenesis, understanding the relationship between COPD and VT could help physicians better identify those who could benefit from an arrhythmia intervention. The true incidence of silent arrhythmias and the temporal relationship between COPD exacerbation and occurrence of arrhythmias has not been fully investigated. Previous retrospective studies have sought to do so with the use of 24-hour Holter monitoring.

### Biography

Bushra Mina is Director of the Pulmonary Critical Care Fellowship Program, and Section Chief for Pulmonary Medicine at Lenox Hill Hospital. He is an Associate Professor at Zucker School of Medicine at Hofstra/Northwell. He is a key faculty member in the department of Internal Medicine and PCCM Fellowship Program. He is a graduate of Medical School, Alexandria University. He finished his Critical Care fellowship at Memorial Sloan Kettering Cancer Center, and Pulmonary Critical Care Fellowship at St. Vincent Hospital and Medical Center in New York. Other degrees include European Diploma of Intensive Care Medicine, and Diploma of Tropical Diseases, Royal College of Surgeons, Dublin, Ireland. His Main Research interest include noninvasive ventilation, thromboembolic disease, COVID-19, and COPD. My research experiences include multiple presentations, publication of abstracts, papers, and book chapters that address different topics of pulmonary and critical care medicine.



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