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Beta-blockers in cardiac arrhythmias—Clinical pharmacologist's point of view

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β -blockers is a vast group of antiarrhythmic drugs which differ in their pharmacokinetic and chemical properties. Some of them block β -adrenergic receptors selectively while the others work non-selectively. Consequently, they reduce the influence of the sympathetic nervous system on the heart, acting negatively inotropic, chronotropic, bathmotropic and dromotropic. Although they have been present in medicine since the beginning of the 1960s, they still play a crucial role in the treatment of cardiac arrhythmias. They are also first-line group of drugs used to control the ventricular rate in patients with the most common arrhythmia—atrial fibrillation. Previous reports indicate that infection with SARS-CoV-2 virus may constitute an additional risk factor for arrhythmia. Due to the aging of the population in developed countries and the increase in the number of patients with cardiac burden, the number of people suffering from cardiac arrhythmias will increase in the upcoming years. As a result the role of above-mentioned beta-blockers will remain significant. Particularly noteworthy is propranolol—the oldest beta adrenergic antagonist, which in recent years has found additional applications due to its unique properties. In this article, we reviewed the accessible literature and summarized the current guidelines on the use of beta-blockers in the treatment of cardiac arrhythmias.

KEYWORDS

β -blockers, heart failure, heart arrhythmia, COVID-19, SARS-CoV-2, propranolol

Introduction

Beta-blockers are well-established in the treatment of arrhythmias. Atrial fibrillation (AF) is the most common arrhythmia in clinical practice. It is estimated to affect 1%–4% of the population (Algalarrondo and Extramiana, 2020). The incidence of AF has increased by 33% in the last 20 years (Lippi et al., 2021). In the United States, at least 3 million to 6 million people suffer from AF (Kornej et al., 2020). It is predicted that the absolute burden of AF may increase by as much as >60% by 2050 (Lippi et al., 2021). One of the reasons for this phenomenon is the aging of the population. However, the risk of

Beta Blockers And Cardiac Arrhythmias

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