Emerging Paradigms in Severe Asthma Management: Integrating Technology and Personalized Treatment

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Message from the Guest Editors

Severe uncontrolled asthma is defined as asthma that remains insufficiently controlled despite receiving intensive asthma treatment after asthma diagnosis has been confirmed and considering comorbidities that may mimic asthma. The prevalence of severe uncontrolled asthma is estimated at 5% of all asthma cases. In this context, biological drugs have emerged as a promising option to address severe asthma. These medications target the specific immune system mechanisms involved in bronchial inflammation, providing a more precise and effective approach. By targeting specific cytokines and immune cells, biologics can help reduce symptoms, improve lung function, and decrease the frequency of exacerbations in patients with severe asthma.

A key theme of this Special Issue is the role of technology, particularly artificial intelligence (AI), telemedicine, big data, and bioinformatics, in transforming asthma care. The integration of these technologies is reshaping the management of asthma, enhancing diagnostic precision, personalizing treatment plans, and improving patient outcomes.

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