Special

Issue

Big Data and Status Asthmaticus

Background: Status asthmaticus has been a serious global health problem with major public health consequences for patients of all ages. Since the past decade, progress such as the identification of genetic and environmental risk factors correlated to asthma has been made; yet, despite researchers' focus on preventing and controlling symptoms of the disease, there has been a sharp global rise in the prevalence of childhood status asthmaticus, especially in developing countries. Not only affecting children and teenagers, status asthmaticus has been a serious issue for many adults and the elderly population who still experience the symptoms of asthma attacks on a daily basis. Although status asthmaticus currently cannot be cured, appropriate prevention strategy and treatment management can be undertaken to control the disease. Along with the rapidly-growing environmental, population, clinical, and public health datasets, modern big data analytic techniques have allowed clinicians and health professionals to construct innovative clinical decision models. Thus, it is crucial for clinicians and policy makers to find ways of optimizing status asthmaticus treatment and enhance the delivery of effective care through big data analytics, ultimately enabling people to enjoy a healthy quality of life.

Importance: A better understanding of status asthmaticus may eventually lead to opportunities for primary prevention and treatment of status asthmaticus through the use of big data analytics.

Goal: Our goal includes developing an increasing understanding of status asthmaticus and its underlying mechanisms, improving status asthmaticus diagnoses and treatments, developing status asthmaticus prevention strategies by providing an authoritative open forum on asthma and related conditions through big data analytics.

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