

# THE USE OF DATA ANALYTICS IN TRANSFORMING CONTEMPORARY MEDICAL PRACTICES

## INFO

### Prof. Dr. Asif Hanif

Chief Editor: Pioneer Journal of Biostatistics and Medical Research

#### Email:

aprofasifhanif@gmail.com

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## Editorial

The data analytics has become a potent force in contemporary healthcare, profoundly impacting the methods of medical treatments and enhancing patient results.<sup>1</sup> Medical practitioners may enhance the level of individualized and timely care they provide by using the vast amount of information contained inside electronic health records (EHRs), wearable devices, and genetic profiles.<sup>1</sup> Predictive analytics plays a crucial role in improving preventive care and decreasing the occurrence of chronic illnesses like diabetes and cardiovascular disease. It does this by identifying people who are at high risk and facilitating early treatments. Data analytics enhances both the efficacy of patient care and the operational efficiency of healthcare institutions. Through the use of predictive models, it is feasible to anticipate the quantity of patients who will need admission.<sup>2</sup> This facilitates the effective allocation of resources, resulting in enhanced workforce management and a reduction in waiting times.<sup>3</sup> Data

analytics expedites medical research by enabling the development of novel pharmaceuticals and deepening our understanding of disease causes via the examination of vast datasets. While data analytics in the healthcare industry provides several advantages, it also raises issues around data privacy and the possibility of algorithmic bias. In order to maintain patients' confidence and guarantee fair treatment, it is essential to eradicate prejudices and safeguard the confidentiality of data.<sup>4</sup> Data analytics will have a growing significance in driving progress and enhancing the efficacy and efficiency of medical operations as the healthcare industry continues to undergo transformation.

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