Artificial Intelligence: Enhancing Efficiency in Dentistry

Dr. Nikhil Srivastava

Introduction:

What once appeared like science fiction is now a reality in the healthcare field including dentistry. Artificial Intelligence (AI) is the ability of machines to perform tasks that normally require human intelligence. It learns from human expertise and undertake works typically requiring human.

AI is being used in many fields of industry, such as robots, automobiles, smart city, and financial analysis, etc. In the field of health sciences, it has been utilized in medical and dental imaging diagnostics, decision support, precision and digital medicine, drug discovery, wearable technology, hospital monitoring, robotic and virtual assistants etc. AI can be regarded as a valuable tool to help dentists and clinicians reduce their workload.

In recent years, AI has begun to revolutionize dentistry. Its applications can be categorized into diagnosis, decision-making, treatment planning, and prediction of treatment outcomes. Among all the AI applications in dentistry, the most common one is the diagnosis. AI can make more accurate and efficient diagnoses, thus reduces dentists' workload and improves treatment planning. On one hand, dentists are increasingly relying on computer programs for making decisions, on the other hand, computer programs for dental use are becoming more and more intelligent, accurate, and reliable. Research on AI has spread over all fields in dentistry.

Address for Correspondence: Dr. Nikhil Srivastava
MDS, FDS-RCS (Edin), FDS-RCPS (Glasg), FICD
Professor & Head, Pediatric and Preventive Dentistry
Principal, Subharti Dental College and Hospital
Swami Vivekanand Subharti University, Meerut, UP
Member, Dental Council of India
Secretary General, Indian Society of Pediatric &Preventive Dentistry Adjunct Professor, Universitas Airlangga, Indonesia
Email : drnikhilpedo@gmail.com