



Artificial Intelligence in Dental Healthcare: A Pressing Priority

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Received: April 27, 2022

Dentistry has come a long way since ancient to present time with digital technology stepping into every aspect of dental field. Both subtractive and additive techniques have brought digital revolution that have aided in enhancing work outcome and thus patient care.

Another breakthrough in the technology is Artificial Intelligence (AI) which has shown spectacular development in the recent years. It was earlier used in areas other than healthcare. However, its applications in healthcare have gained attention of the researchers worldwide. Currently, AI is utilized in dentistry for identification of normal and abnormal structures, diagnosis, interpreting results, and to help achieve good treatment outcomes by easing clinical decision making process. AI can identify anatomical structures and dental caries. It has shown to have relatively high accuracy in early detection of oral lesions which is crucial to avoid progression of pre-cancerous lesions and in detecting tumoral tissues in tissue samples, thereby in improvement of prognosis.

Another application of AI is in patient management where it has exhibited exceptional performance with less errors and more precision. It creates a virtual database of every patient which is beneficial before, during and after treatment and during emergency consultation online. With AI, work can be accomplished in standardized and time efficient manner.

Though continuous research is being carried out, currently usage of AI is still in the budding stage and further research and studies are required to explore its full potential and expand its application in the dental field. It surely has tremendous potential and is our future in dentistry. Also, to successfully integrate AI into dentistry, training of professionals is needed to take best advantage.

Volume 5 Issue 7 July 2022

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