

## Artificial Intelligence

Last few years have witnessed enormous changes in our profession. One of such changes is the introduction of Artificial Intelligence AI in dentistry and specifically in orthodontics.

AI is a branch of computer science that refers to the ability of a machine to imitate cognitive functions of human intelligence. AI minimizes the required workforce and speeds up diagnosis and treatment procedures.

Application of AI in orthodontics include

1. Diagnosis including Cephalometric analysis, dental analysis, facial analysis, skeletal maturation stage assessment and airway assessment.
2. Treatment planning including extractions, orthognathic surgery, and treatment outcome prediction.
3. Clinical practice including practice guidelines, remote care, and clinical documentation.

One of the fears is that AI will exclude expert clinicians from healthcare system and reduce treatment costs. Although it is now clear that AI is not going to replace clinicians in near future.

Realistically, the uses of AI are more than its fears. It is highly recommended that AI should be included in the dental curriculum both at the undergraduate and postgraduate level in Pakistan.

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