Guest editorial

Contemporary CAD/CAM view in dentistry

With the improvement of dental computer-aided design/computer-aided manufacturing (CAD/CAM) systems and restorative materials, CAD/CAM restorations are available in all over the world [1]. These restorations are indicated to reestablish esthetics and function saving time with quality and predictable results. Thus, the knowledge of these systems is important for professionals of all areas in dentistry.

Currently, new CAD/CAM systems and restorative materials are accessible. Examples of some systems are: CEREC, LAVA, EVEREST, PROCERA [3]. It can use materials such as zirconia-reinforced, lithium disilicate-reinforced ceramic, feldspathic ceramic, composite resin or hybrid (ceramic-resin). These new systems/materials present excellent marginal quality and can be indicated for inlays, onlays, anterior and posterior crowns, bridges, and laminate veneers. Thus, procedures can be performed in all areas of dentistry with CAD/CAM systems as a conservative and predictable treatment to establish the harmony of the smile.

Many are the advantages of these versatile CAD/CAM systems. Their intraoral scanner can capture the details of either restorations or teeth. Consequently, the process is much less time consuming and more precise [4]. The new softwares make system handling easy and accept the application of new materials available. And, today, the cost of the system (scanner, software and milling machine) is much more accessible in all countries.

The quality control of CAD/CAM system is well documented in the literature for over 20 years [2]. As result, nowadays, the application of CAD/CAM technology in dentistry can provide a state-of-the-art service for dental technicians, patients and dentists.

References

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