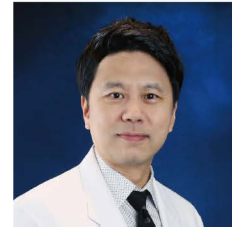


One-Day Ceramic Restoration and Dental Microscope.



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Fourteen years ago, when I first began performing one-day ceramic restorations using an intraoral scanner and ceramic milling machine, my biggest concerns were tooth preparation and cementation. Even with my usual meticulous preparation, I often experienced poor margin alignment, thin restorations, and ceramic chippings. Cementation with resin cement was also challenging for various reasons. I prioritized tooth preparation over other improvements, and while exploring ways to improve accuracy, I experimented with a dental microscope, a tool commonly used in endodontic treatment, and achieved satisfactory results. Since then, I have naturally used the dental microscope during restoration bonding and occlusal adjustments, and now I can no longer imagine the treatment process without it. Therefore, I would like to share my experience with CAD-CAM treatment using a dental microscope, including its benefits.

14年前、口腔内スキャナーとセラミックミリングマシンを用いた1日セラミック修復物の治療を始めた頃、最も気になっていたのは歯の形成とセメント合着でした。普段から念入りに形成を行っていましたが、マージンの不一致、修復物の薄さ、セラミックの欠けなどが頻繁に発生しました。また、レジンセメントによるセメント合着も様々な理由から困難を極めました。私は他の改善点よりも歯の形成を優先し、精度向上策を模索する中で、歯内療法で一般的に用いられる歯科用顕微鏡（デンタルマイクロスコープ）を試用し、満足のいく結果を得ることができました。それ以来、修復物の接着や咬合調整には当然のように歯科用顕微鏡を使用するようになり、今では歯科用顕微鏡なしの治療は考えられません。そこで、歯科用顕微鏡を用いたCAD-CAM治療について、そのメリットも含め、私の経験を共有したいと思います。

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