Bonded ceramic restorations using lithium disilicate IPS e.max, be it pressed or CAD, open up a range of restorative options that have not really been available in the past with conventional restorations using cementation for retention. The primary issue with many of the potential minimally invasive preparation designs is they are essentially non-retentive if using conventional cementation, and temporization for two weeks is a real clinical challenge.

Same-day CAD/CAM dentistry solves this problem and allows for less invasive preparation designs, retaining more healthy tooth structure and reducing the insult on the pulp that is associated with conventional full-ferrule cementation crown designs. It begs the question: Do we design our preparations just to make our temporaries last for two weeks?

The development of IPS e.max was the trigger that finally pushed me to embrace CAD/CAM mid-2009. The results possible for a beginner amazed me, and two years later, I am still in awe of how simple and easy it is to create quality restorations.
Case No. 2

Utilizing esthetic metal-free restorations such as IPS e.max (high translucency) allows placement of margin at an ideal location rather than hiding it equi- or sub-gingival.

Case No. 3

Unique adhesive preparation design maximizes the capabilities of same-day restorations, eliminating the concept of retention for the sake of provisionals.

Case No. 4

Same-day quadrant restoration maximizing productivity, function and esthetics.
Case No. 5. Chairside CAD/CAM is the perfect complement for anterior single-tooth restorations; here IPS Empress Multiblock provided an immediate solution for a trauma case.

Case No. 6. Minimal preparation is combined with proper material selection (IPS e.max low translucency) to achieve conservation and esthetics in one appointment.

Case No. 7. Minimal facial veneer preparations and restorations provide a long-term alternative to failing direct composites.
Case No. 8
Full contour IPS e.max restoration scanned, designed and milled chairside provides the total solution.

Case No. 9
Taking design to the limits, and although not formally recommended, necessity is the mother of invention and this IPS e.max restoration provides a unique alternative solution.

About the Author
Graeme Milicich, BDS, has been a dentist in Hamilton, New Zealand, since he graduated in 1976 and is one of three dentists at Anglesea Clinic Dental Care in the center of Hamilton. He has more than 12 years of experience in international lecturing and research in minimal intervention, lasers and restorative techniques. In conjunction with lecturing, he has also developed nine educational CD-ROMs to assist fellow professionals, their staff and their patients in easily understanding the various concepts associated with the ever-expanding field of minimally invasive dentistry. His newest CD is "Anterior Single Crown Aesthetics, using CAD/CAM," teaching how to create the results seen in these cases. (See www.advancedental-ltd.com for more information.) Milicich introduced the E4D Dentist chairside CAD/CAM system into his practice in July 2009.

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