Transillumination is redefining caries detection!

CariVu from DEXIS has redefined the caries detection category. There is nothing like it. Thanks to its innovative transillumination technology, it is the most accurate interproximal caries detection device available today.

CariVu™ Case Presentation

Dr. Cynthia Brattesani has authored a case presentation entitled, “Detecting and Restoring Hidden Interproximal Caries.” Download your copy of it today to see how she implements CariVu in her practice.

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CASE PRESENTATION | 16

I recently implemented CariVu (DEXIS) caries detection device as part of my diagnostic armamentarium. While I use it during many procedures, I have now incorporated CariVu during recare visits. It’s especially useful when patients are not due for bitewing x-rays. Research shows that in many cases, CariVu can detect interproximal and occlusal caries sooner than radiographs*. I have experienced this many times in my practice, allowing me to be more conservative in the restoration process. CariVu is proving to be an important diagnostic adjunct for my practice, and this case is an ideal example of this.

A 25-year-old woman presented for routine prophylaxis and examination. Her chief complaint was sensitivity in the upper left; she stated that she thought this sensitivity involved No.13. As a standard component of the appointment, CariVu was implemented for the screening of her posterior teeth. In this case, as often occurs, I was not able to detect the lesion on visual examination, in a magnified intraoral photograph, or even fully on a radiograph. Had we not used the CariVu, the lesion would have continued to progress, requiring more aggressive treatment at a later time.

I treatment planned this Class 2 for direct bonded restoration using OptiBond Solo Plus (Kerr) total-etch adhesive and combination of N’Durance Dimer Flow flowable composite (Septodont) and Z250 universal composite (3M ESPE) while employing Gluma Desensitizer (Heraeus), prior to restoration.

Because co-diagnosis and communicating with my patients is always my focus, CariVu caries detection device with transillumination technology is a great addition to my armamentarium. Because the image is very visual, it is great for the skeptic, new patients, young patients, those with trust issues—anyone with whom you want to share information. This tool also integrates seamlessly with my DEXIS program, so that I can use its images along with those from my Platinum sensor and cameras and display all on a monitor or in the DEXIS go app for iPad.

*data on file with DEXIS, LLC
Figure 1—On the CariVu image, I located interproximal caries in an otherwise asymptomatic tooth No. 12 and mesial caries on symptomatic tooth No. 13.

Figure 2—My visual exam did not reveal caries, and an intraoral photograph supports this.

Figure 3—Bitewing radiograph revealed caries on mesial of tooth No. 13 but not the extent of the lesion on distal of No. 12.

Figure 4—DEXIS software lets me compare CariVu and other images side by side.

Figure 5—After anesthetizing the patient with Septocaine (Septodont), I prepped the area for the planned Class 2 restoration.

Figure 6—An intraoral photograph of the prepared tooth shows caries is definitely present, and the shape and size of the lesion on the CariVu image corresponds to the shape and size of the actual lesion.
Figure 7—I placed Garrison Dental’s Reel Matrix and Composi-Tight 3D XR for placing adhesive and composites.

Figure 8—After finishing with Sof-Lex wheels (3M ESPE) and applying BisCover (BISCO), the patient was very pleased with the result and happy that we caught the lesion at an early stage.

GO-TO PRODUCTS USED IN THIS CASE

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<thead>
<tr>
<th>BISCOVER LV</th>
<th>CARIVU</th>
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<tr>
<td>BisCover LV is a low-viscosity, light-cured resin formulation used to seal composite restorations while leaving a smooth polished/glazed surface.</td>
<td>CanVu offers unique, patented near-infrared transillumination to detect caries and its actual shape and size with high accuracy.</td>
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<th>DEXIS PLATINUM</th>
<th>HDL 2.5X LOUPES</th>
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<td>DEXIS Platinum maximizes the imaging area while enabling direct connection to the computer, eliminating the need for adaptors, controllers, and docking stations.</td>
<td>The field depth of HDL 2.5x loupes rivals that of traditional 2.5x loupes, yet it is 25% smaller than most other models.</td>
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