

Restorative Clinical Cases

Author: Dr. Jason Goodchild
Origin: Pennsylvania/USA
Date: 2016
Brands: Palodent® V3, SDR®, Enhance®

Restoring a difficult interproximal contact on tooth #5

A 42-year-old female patient presented with a chief complaint of, “my filling fell out and now I’m getting food caught between my teeth.” Intraoral exam revealed that tooth #5 had lost a portion of the disto-occlusal restoration and food impaction was occurring. This case presented two challenges: to restore a large interproximal space adequately enough to prevent food impaction, and to create a well-supported and contoured restoration that could be strong under occlusal forces.



Dr. Jason Goodchild
Pennsylvania/USA

Dr. Jason H. Goodchild graduated from the University of Pennsylvania School of Dental Medicine in 1998. Dr. Goodchild joined Dentsply as a Research Dentist in 2012, and now serves in Dentsply Sirona as Clinical Education Manager, with a Focus on North America. He is also associate Professor and Chairman, Department of Diagnostic Sciences, Creighton University School of Dentistry, Omaha, Nebraska. Dr. Goodchild combines active clinical surgery in restorative dentistry at his practice in Havertown, Pennsylvania, research work with numerous publications, and diverse editorial positions.

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01 Completed preparation on tooth No.5.



02 Etching of the enamel margins using a tooth conditioner gel.



03 Isolation of tooth with Palodent® V3 Sectional Matrix System.



04 A universal adhesive is scrubbed into the preparation, then air dried for 5 sec and light cured for 20 sec.



05 After having placed SDR® the final restorative layer is placed using a universal composite in 2 mm increment.



06 Tooth No.5 after placement and curing of the final occlusal layer of the universal composite.



07 Final restoration after removal of the Palodent® V3 Sectional Matrix System. Finishing was done with Enhance® Finishers.



08 Final radiograph of tooth No.5 illustrating excellent radiopacity of the Bulk Fill material, SDR® and of the universal composite.

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Conclusion and references

We achieved a positive outcome in this case primarily because of Palodent®V3 and SDR®. The two challenges of contact creation and restoration of proper anatomic contour would not be possible without the uniqueness of the Palodent®V3 ring and matrix. The tooth separation resulting from the ring together with the curved matrix made achieving a positive outcome predictable. Because the cavity form was large, the time savings on SDR® reduced procedural time without compromising adaptation or increasing the chances of negative post-operative sequelae. Without Palodent®V3, the only option for the patient most likely involves an indirect restoration, and without SDR® this restoration would have been clearly more tedious and time consuming.



Palodent® V3
Starter Kit



SDR®
Smart Dentin Replacement
Compula Intro Kit

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