

Global Clinical Case Contest 2021-2022



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Introduction to the case

A 30-years old male patient complained about old restorations on teeth 1.4, 1.6. During the examination was found the 1.5 tooth decay. Our treatment plan was remove carious dentin and all restorations then place aesthetically efficient composite restorations.



Pre-operative intraoral view showing old restorations and a caries



Post-operative intraoral view showing the final direct restorations with Dentsply Sirona restoration materials

Treatment steps



Step 1. Pre-operative view
Pre-operative occlusal view



Step 2. Pre-operative view
Pre-operative vestibular view



Step 3. Cavity preparation
Start cavities preparation with **Palodent V3 wedge guard**



Step 4. Isolation and preparation
Isolation of the operative area using the rubber dam. Cavities preparation: removed old restorations and carious tissue to stay only hard dentine



Step 5. Palodent V3 matrix system
Placement of the **matrix system Palodent V3** to make adequate contact points



Step 6. Bonding and restoration
Adhesive protocol was made with **Prime&Bond Universal** bonding system. Direct restorations 1.6, 1.5 and 1.4 teeth with **SDR Plus**, **Neo Spectra ST LV A2** and **Neo Spectra ST HV A2**



Step 7. Finishing and polishing
Used of **Enhance®** for finishing



Step 8. Finishing and polishing
Polishing was made with **Prisma Gloss® Regular** and **Prisma Gloss® Extrafine** pasts

Material and Method

Adhesive protocol was done with **Prime&Bond Universal**. The dentine layer was reconstructed with **SDR Plus Universal® (Smart Dentin Replacement)** by **Compula® Tip**. Used **Neo Spectra® ST LV A2** and **Neo Spectra ST HV A2** to dentin and the enamel stratification. Finishing and polishing were done with **Enhance® Finishing and Polishing Systems**. Colored with **Inspiro Ice** and **Fissura**.

Discussion and Conclusion

The biggest part of caries decay is II class caries on the lateral teeth is a big problem for direct restorations. To copy the nature replicating, contacts and occlusal anatomy is very important to prevent occlusion disorders in the patients. It was safe preparation with **Palodent V3 wedge guard**, it was easy to apply **Prime&Bond Universal** bonding system, the smart materials of Dentsply Sirona company was perfect in modeling and looked nature, **Palodent V3 Matrix system** helped us rebuilding adequate contact points. The clinical case was finishing and polishing by **Polishing System**.