

Class II restoration on a first molar

Procedure/Study by

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Mendrisio - Switzerland

QuickmatFIT anatomical sectional matrices myRing Forte



Alessandro Perucchi

DDS, oral surgery specialist

Dr. Perucchi graduated in dentistry from Bern University in 2005. In 2011, he obtained the qualification as an oral surgery specialist. In 2012, he opened his own dental practice in Mendrisio. Since 2007, he has taught at universities and training courses in Switzerland and elsewhere in Europe. Author of several scientific publications.

Member of the professional societies SSO and EAO, ITI fellow and founder of MINEC and DDS.



Cristian Scognamiglio

DDS, expert in dental aesthetics

Graduated with honours from the University of Varese (Italy) in 2018.

Since 2020, Dr. Scognamiglio has worked at Dr. Perucchi's practice in Mendrisio, Switzerland. He is an active researcher and speaker at national and international congresses, and has been an opinion leader for Polydentia SA since 2022.

Member of the professional societies SSO, DDS, EAO and ITI.

Case Report

The patient came for a consultation complaining of discomfort at tooth 36 when chewing. Molar 36 presented a very old composite restoration with initial disto-occlusal infiltration.

We decided to carry out an OD restoration that also involved the buccal surface in order to replace the filling with a new aesthetic restoration.

In this clinical case, we illustrate the procedure for the step-by-step restoration of tooth 36 using the Polydentia QuickmatFIT Molar sectional matrix in combination with the myQuickmat Forte sectional matrix ring.



01

Pre-operative situation showing the large old restoration with initial disto-occlusal infiltration.



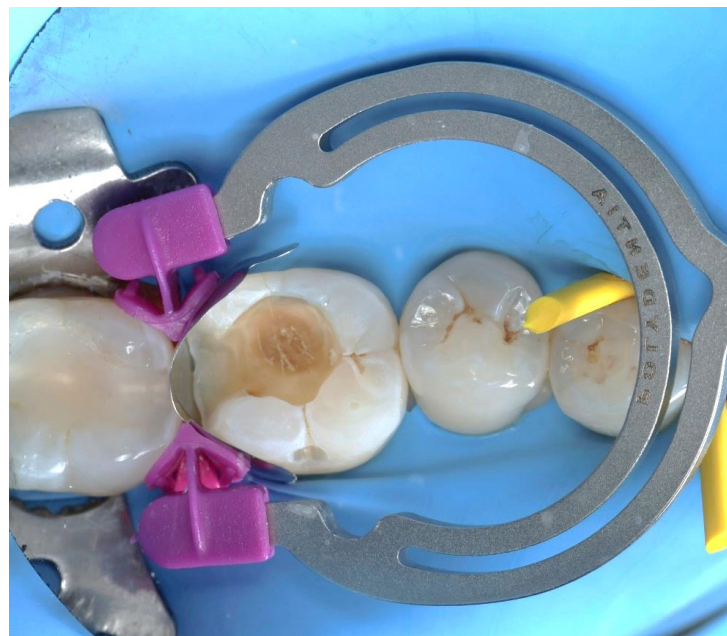
02

A pre-operative x-ray was taken to identify the extent of the present restoration and ascertain whether mesial infiltration was also present.



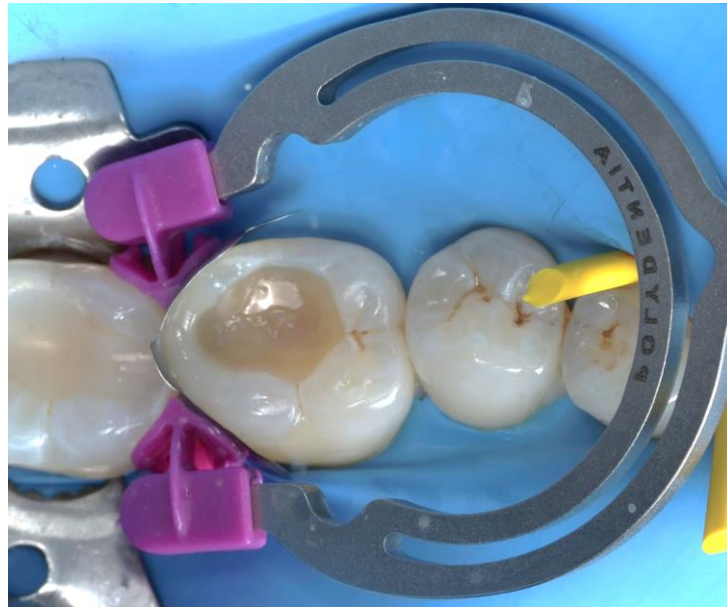
03

Isolation of the surgical field using a rubber dam and removal of the old composite filling from the OVD surfaces.



04

Placement of the Polydentia QuickmatFIT Molar sectional matrix in combination with the myQuickmat Forte sectional matrix ring.



05

Transformation of the ODV cavity into a first-class cavity by reconstructing the distal wall and performing vestibular restoration.



06

Modelling of the cusps using dentine mass composite and enamel, Final Touch Brown/Orange/White pigments were used.



07

Removal of the matrix and wedge with initial finishing of the restoration margins with the isolation dam still in place.



08

Final polishing of the restoration using polishing pastes and felt at 10,000 rpm.



09

Final restoration result after enamel finishing and polishing.

Conclusion

The major innovation of the Polydentia QuickmatFIT Molar matrices, which are also available in a premolar version, is that they are even easier to handle and use. The three accessory tabs at both ends of the matrix and at the top simplify matrix placement and removal, as they are designed to be removed using dental forceps.

In addition, the Polydentia QuickmatFIT Molar matrices, in combination with the myQuickmat Forte sectional matrix ring, provide a competent contact point that ensures protection of the interdental space and prevents post-restoration food impaction.