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Una studentessa dell'Università degli studi di Siena è stata tra i 593 partecipanti ad un concorso indetto per gli studenti del V e VI anno Della facoltà di Odontoiatria e Protesi Dentaria di tutto il mondo aggiudicandosi il terzo posto.



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## Global Clinical Case Contest 2016-2017



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### Introduction to the case

A 25-year old boy came to the Department of Conservative Dentistry to solve his aesthetic problem: the gap between his upper front teeth. New composites allow dentists to offer non-invasive, highly aesthetic and long lasting direct restorations. The clinical examination showed a dentoalveolar discrepancy with multiple diastema between 1.3, 1.2, 1.1, 2.1, 2.2, 2.3. Treatment plan: Multiple diastema closure with direct composite restorations using *ceram.XE Duo*, through the use of diagnostic mock-up wax and silicon key.



Frontal intraoral view showing multiple diastema between 1.3, 1.2, 1.1, 2.1, 2.2, 2.3.



Postoperative intraoral view showing complete diastema closure.

### Treatment steps



**Step 1 Diagnostic mock up wax**  
Diagnostic wax up was made to analyze the right proportions for patient's smile. A silicon index was used to transfer the mock up in the mouth; the patient really liked the outcome.



**Step 2 Isolation**  
After local anesthetic administration and shade selection (shade A1), anterior area was isolated with rubber dam. Teeth were cleaned, no preparation was necessary.



**Step 3 Etching and Bonding**  
All teeth were etched at the same time with DeTrey® Conditioner for 30s, then rinsed with water spray for 30s, then Prime&Bond Active® was applied with rubbing motion, blowed with air syringe for 5s and light cured for 20s.



**Step 4 Silicon key use**  
A silicon key was used to identify the correct palatal extension of restoration, and to maintain the dental arch symmetry. A composite mass was applied to fill up the missing space.



**Step 5 Proximal wall build up**  
Palident® sectional matrices were used to define the best shape for proximal surface and create contact area.



**Step 6 Finishing**  
After contouring and the removal of any excess material around cervical and proximal area, finishing was made with Enhance® Finishing System.



**Step 7 Polishing**  
Po Go® Polishing System and Prisma® Gloss were used to complete all surfaces Polishing.



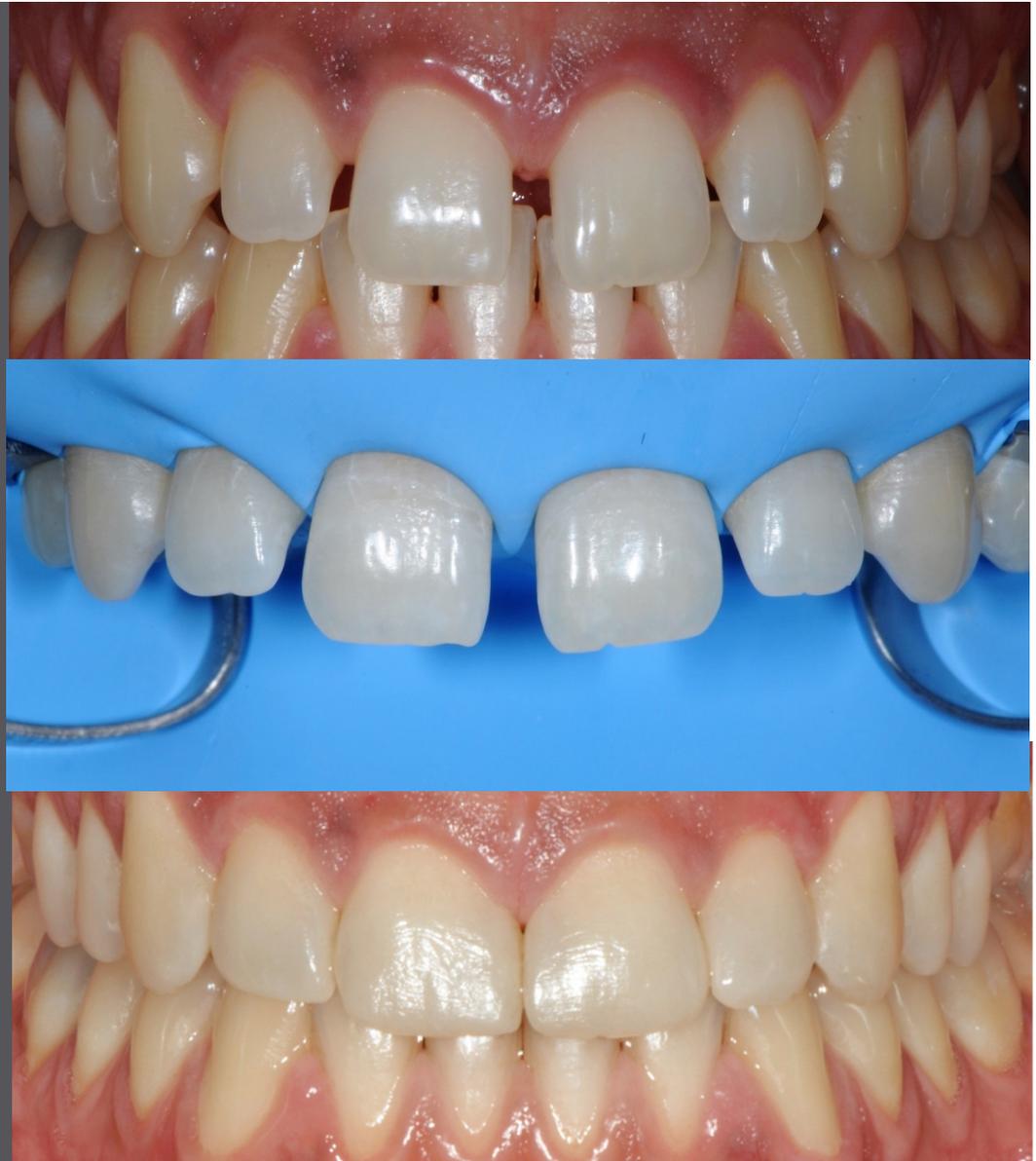
**Step 8 Final Result**  
At the end of the work direct composite restorations had natural appearance and the multiple diastema were closed.

### Material and Method

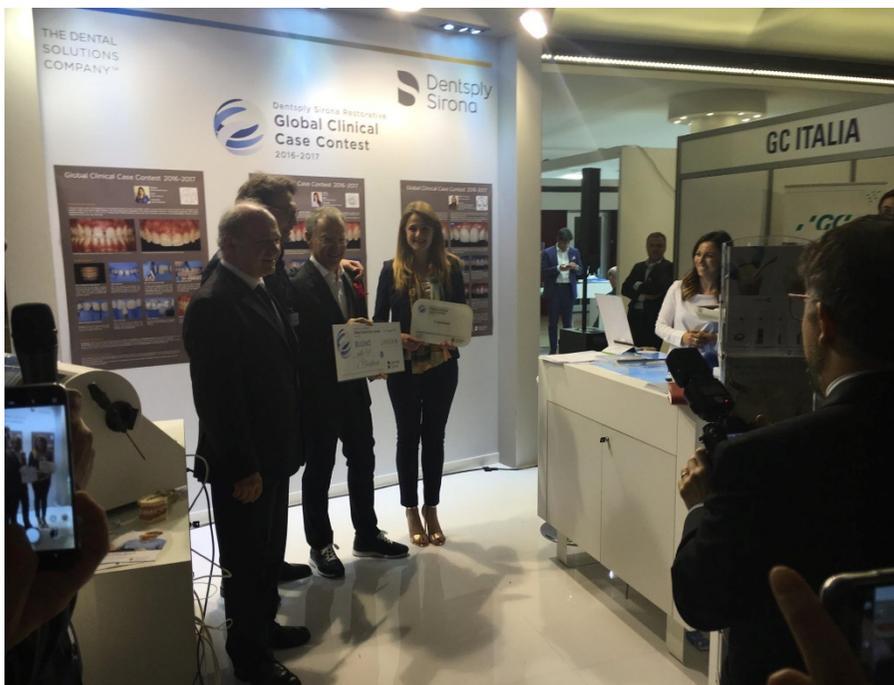
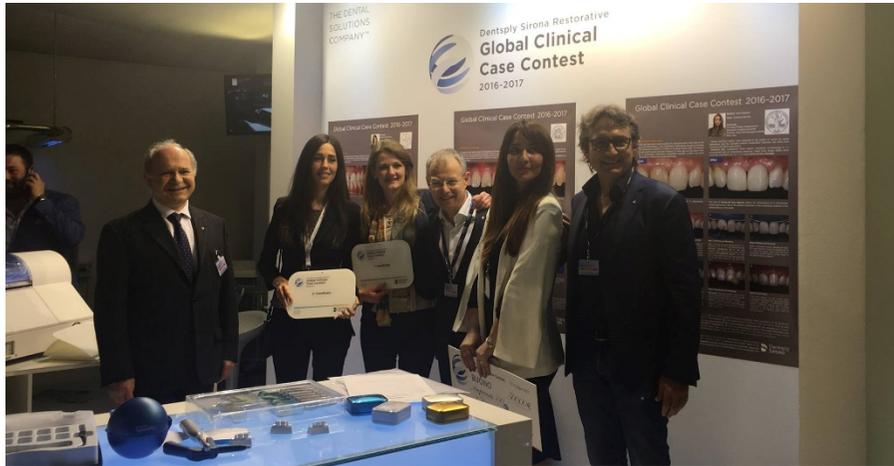
Dentsply® rubber dam was used to isolate operating area, DeTrey® Conditioner and Prime&Bond Active® were used to make adhesion. Then *ceram.XE Duo* was used for the direct composite resin restorations. It is effective to make excellent aesthetic restorations in very confined spaces, without the need for stratification. The silicon key and Palident® sectional matrices were used in order to make a more accurate modeling. Finally we made finishing and polishing by Enhance® Finishing System, Po Go® Polishing System and Prisma® Gloss use.

### Discussion and Conclusion

Multiple diastema closure can be made through several approaches: orthodontics, indirect veneering restorations, direct composite resin restorations. The last one enables to do a fast esthetic rehabilitation with the chance to make small postoperative changes and a non-invasive teeth preparation, so with a very low biological cost. The use of diagnostic mock up wax was important for work planning, and putty matrix allowed to transfer the mock up into the mouth, to show the patient a final result previewalization.

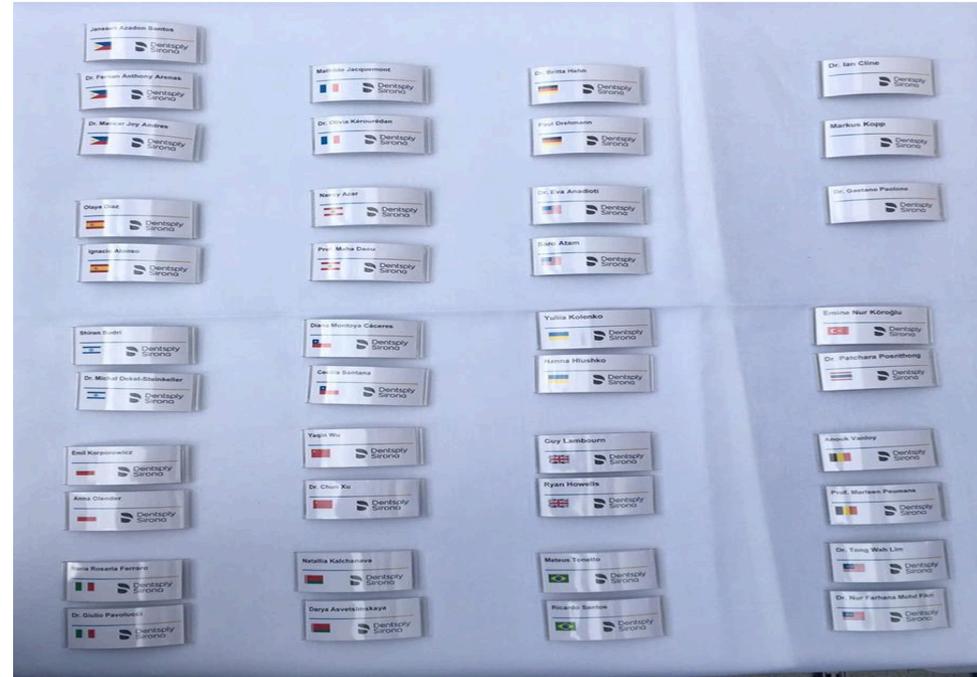


# Proclamazione delle prime tre classificate della fase nazionale del Contest: Siena si aggiudica il primo posto tra 41 università candidate Bologna, 12.05.2017



Konstanz, 26.06.2017.

I primi classificati di ogni Paese si incontrano per presentare i loro lavori e partecipare alla fase globale del concorso.



I Membri della Giuria premiano i primi tre classificati del Contest:  
Dalla Germania: Paul Drehemann  
Dal Belgio: Anouk Vanloy  
Dall'Italia: Maria Rosaria Ferraro

