By Dentply Sirona

Every year, dental undergraduate and graduate students, with less than 2 years of clinical practice, are invited to participate by documenting their case with photographs and test. Since its inception in 2004-2005, more than 3,000 dental students have participated in the 2018-2019 competition drawing a total of about 1,242 entries, from 134 universities.

This year the regional winner for MENA was Rana Ali Al-Saadi from Ibn Sina National College, Saudi Arabia. Check out her winning case!

Introduction to the case

A 43 year-old male patient came to the clinic to solve his aesthetic problem related to incisor, canines 13, 11, 21, 22.

Treatment options

2. Build up related to #11, 12, 21. Direct veneer #22 and class V composite restoration related to #13.

Treatment options were discussed with the patient and the patient chose the second option.

Student: Rana Ali Al-Saadi
Tutor: Dr. Gautam Singh
University: Ibn Sina National College
Country: Kingdom of Saudi Arabia

Material and Method

The digital smile design approach is a predictable clinical outcome.

Digital smile design done according to golden proportions for a predictable clinical outcome.

Step 1 – Digital smile design

The Adhesive system was applied (Prime&Bond univarsal™) and light-cured. Build up of the palatal wall using the silicon key, the proximal wall contours were created using sectional matrix. Dentine shade (ceram.x® duo E2) were used.

Step 2 – Isolation

After shade selection (A3) the anterior area was isolated with rubber dam and stabilised with knot ligatures for preventing leakage and adequate retraction

Step 3 – Cavity preparation

Restorations were marked with graphite to highlight transitional lines, mesial - distal, occlusal and developmental grooves. Gross three dimensional contouring was done using diamond burs. Interdental finishing strips were used to remove excess and shape emergence profile of the teeth.

Step 4 – Etching

The etching protocol was done using (Enhance® PoGo system and Prisma Gloss® pastes).

Step 5 – Bonding - palatal wall & build up

The etching was performed. Teeth were caries excavation and cavity preparation with bevel was prepared.

Step 6 – Contouring

Finishing was completed using (Enhance® PoGo system and Prisma Gloss® pastes).

Step 7 – Finishing & Polishing

Polishing was performed using (Prime&Bond Conditioner #36 for 15s then rinsed with water spray).

Step 8 – Post operative view

Highly aesthetic outcome using (ceram.x® duo).

Discussion and Conclusion

Re-creating an aesthetic smile was a challenging task in the present case. The final restorations satisfied the patient’s expectations. Ceram.x® duo showed a remarkable final natural appearance in this case. Ceram.x® duo has excellent handling, finishing, and polishing properties that resulted in a highly aesthetic outcome.

The Dentsply Sirona

Global Clinical Case Contest 2018-2019

Before

After

NEWS