The Dentsply Sirona Global Clinical Case Contest 2018-2019

By Dentsply Sirona

Every year, dental undergraduate and graduate students, with less than 2 years of clinical practice, are invited to participate by documenting a patient case with photographs and text. Since its inception in 2004-2005, more than 3,000 dental students have participated, with the 2018-2019 competition drawing a total of about 1,242 entrants, 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 incisors, canines 13, 11, 21, 22.

Treatment options

1. Crowns related to 711, 712, 71, Direct veneer #22 and class V composite restorations related to #13.
2. Build up related to #711, 712, 71, Direct veneer #22 and class V composite restorations related to #13.

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

Step 1 – Digital smile design

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

Step 2 – Isolation

After shade selection (A3) the anterior area was isolated with rubber dam and stabilised with knot figures for preventing leakage and adequate retraction retraction floss tape used.

Step 3 – Cavity preparation

Caries excavation and final cavity prep- aration with beef was prepared.

Step 4 – Etching

The etching protocol was done using DeTrey® Conditioner 36 for 15s then rinsed with water spray.

Step 5 – Bonding – palatal wall & build up

The Adhesive system was applied (Prime&Bond univarsalTM) and light-cured. Build up of the palatal wall using matrix. Dentine shade (ceram.x® duo E2). For finishing & polishing firstly finished with a diamond bur, then with Enhance® PoGo system and Prisma Gloss® pastes.

Step 6 – Contouring

Restorations were marked with graphite to highlight transitional line, mesial - distal inclination and developmental grooves. Gross three dimensional contou- ring was done using diamond burs. Interproximal finishing strips were used to remove excess and shape emergence profile of the teeth.

Step 7 – Finishing & Polishing

Finishing was completed using (Enhance® PoGo System) and then the polishing procedure was completed using (Enhance® PoGo system and Prisma Gloss® pastes).

Step 8 – Post operative view

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

Discussion and Conclusion

By 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 re- sulted in a highly aesthetic outcome.

Material and Method

The digital smile design approach is very beneficial in deciding the pre- fered ideal outcome. Interpretation very benefi- cial in deciding the pre-