

CASE STUDY

DR. CLAIRE O'CONNOR



SCD

A Modern Dental Europe Company

Introduction

Dr. Claire O' Connor



Dr Claire O' Connor graduated from University College Cork in 2006. In 2010, she successfully completed the Membership exams at the Royal College of Surgeons in Ireland. With a passion for biomimetic restorative dentistry, she pursued extensive training to enhance her expertise in this field. Her clinical practice focuses on biomimetic restorative dentistry with a particular emphasis on rubber dam isolation & magnification.

She regularly conducts hands on rubber dam courses in Ireland. To connect with Dr O' Connor, she can be reached via email at claire@bantrydental.ie or on Instagram @clairethedentist

BEFORE



AFTER



Case Overview

This patient was a 72 year old male who was very aesthetically/dentally aware. He presented seeking an improvement in the appearance of the upper anterior teeth. I decided to replace the 6 old failing feldspathic crowns with 6 new e.max® crowns. I chose bonded e.max® for superior resistance to fracture considering the fractures that occurred in his old crowns.

A significant difference in the translucency and appearance of the ceramic crowns was noted in comparison to the 12, 11 that had been previously restored. The patient felt the old crowns were slightly “grey” so the aim was to reduce the greyness with the new crowns and provide a more aesthetic outcome.

To achieve a satisfactory outcome, and following a diagnostic assessment using ExoCAD images which were approved by myself and the patient, the upper 6 anterior teeth were prepared using conservative tooth reduction for all-ceramic crowns.

Gingival retraction was provided using suitable sized retraction cords. The gingival tissues were healthy so there was no issue with hemostasis and intraoral scanning was completed using a Medit i700. The intraoral scans included scans of the working arch, opposing arch and jaw registration with all being sent digitally to SCD Lab. Temporary crowns were provided in the interim.

The layered e.max® restorations were fabricated and I requested that these crowns were not to be etched in the laboratory.

The crowns were cemented using an adhesive

resin cement with the e.max® crowns being etched with ceramic etching gel and a silane agent used to enhance the bond strength. Restorations were cemented under rubber dam. Post cementation clean-up was done and the occlusion checked accordingly.

The digital workflow allowed for a rapid turnaround with the crowns returned from SCD within 7 working days.



Case Overview

Virtual mock up SCD View



Case Overview

Shade Selection



Photographs were provided of the pre-operative condition and of the temporary crowns. The Borea Raypicker Handy digital shade taking device was used to accurately capture the desired shade which the technician used during the manufacture of the crowns. The Borea Raypicker shade result was C2 cervically with increased chroma to match the lower incisors. C1 main body and D2 incisally with some incisal natural translucency.



Dentist Feedback

Dr. Claire O' Connor:

"Both the patient & I were delighted with the overall outcome. We planned from the outset to achieve an age appropriate aesthetic result that blended in well with the lower anterior dentition and I think we successfully achieved this. His requirements was for a natural look and it was important the result met his expectations in this regard.

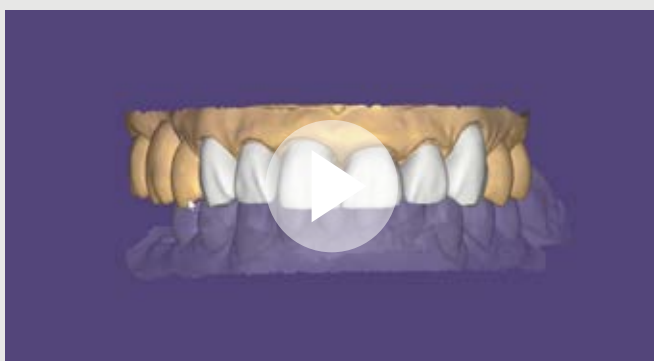
There was no occlusal adjustment needed on delivery as the patient had been in laboratory made temporaries for 3 months, during which time I was able to tweak the shape & contour of the teeth as well as ensuring a balanced occlusion.

When he attended for a review after 2 weeks, he announced how satisfied his wife was as well-the true seal of approval!"

BEFORE



AFTER



Click to view the ExoCAD digital wax up
<https://youtu.be/LIbuqcCSl8o>

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