By Aiham Farah, Syria

Substituting the white opaque dentin ceramic material with a high brightness transparent effect is the secret of manipulating the 4 bleach shades (BL4, BL3, BL2, BL1), and the key factor to make them close to the natural-looking shades in our (A-D) shade guide. (Fig 1)

- The visual perception in which Opal Effect ceramic material appears to be radiating or reflecting light is called luminance, and luminance is the intensity of light that generates what we see in dental ceramic as natural white. Why natural? Because it simulates the optical properties of the natural enamel of healthy teeth.

Our following case is a very good example of producing attractive natural-looking bleach shade.

Case Presentation

A 45-year-old female presented to the clinic with an aesthetic request, she desires a smile change. Apparently she was seeking a new look on multiple cosmetic aspects, and she chooses to start at the dental lab.

The patient was examined introrally, and her dental history was recorded. The radiographic exam of the upper incisors revealed a good endodontic situation. Preliminary impressions were also taken to produce a study model. The dental lab technician presented to the clinic to evaluate the old veneers fabricated (Low translucency, LT BL1) is used, followed by delicate cut back and layering Transpa-Incisal powders from IPS e.max Ceram.

In the day of the try-in, patient showed up to the clinic, she was excited to see the new smile. When she looked at the mirror she felt the change. (Fig 5) All the measurements of esthetic, from teeth arrangement to lips dynamic appeared perfect on her face. The dental team members had different points of view on the shade after taking few minutes to absorb the tried-in set. They all agreed that something still missing for the case to be esthetically pleasing, as if all the light rays coming from inside the veneers faded down after being placed on the prepped teeth (dentist stated in privacy). Soon we realized that the discoloration of the prepped dentin continued on darkening during the 10 days lab work process. So at the day of the try-in set with the bleach shade guide held into position were important to be reviewed to find out what to do and what to avoid in the new veneer set. (Fig 6) A black and white photo was important to define the matching level of brightness, and what bleach shade we reached. (Fig 7)

Ingot selection judgment

The Success: Priority number one was masking and incisal material and characterize with variety of brighter impulsive colors from IPS e.max Ceram powders, Texturized Fig 9, glazed, then the final outcome was balanced by further manual polishing.

A comparison with the failed previous set; in order to make sure that I succeeded boosting the luminosity level was important after transferring the dentin background of the natural prep from the patient mouth to my bench through the IPS Natural die material ND4. (Fig 10)

Cementation

Veneers were finally cemented with Bleach XL (only Base) Variolink-II resin cement (from IvoclarVivadent), after they have been tried-in and all seating and

Fig 1. Bleach shade guide, (IvoclarVivadent A-D shade guide)

Fig 2. The pre-operative situation

Fig 3. The pre-op situation reflecting the non-vital appearance of the old veneers and the surrounding gingiva

Fig 4. The degree of discoloration of the prepped dentin according to the ND shade guide

Fig 5. The patient checking her smile with the first set of veneers

Fig 6. The non-vital appearance of the first set of veneers centrals on the day of Try-in

Fig 7. The base value of the first set of veneers compared to the bleach shade guide in a black and white photo

Fig 8a, 8b. Masking test of the MO0 ingot shells

Fig 9. The texturized veneers on the control (non-segmented) model

Fig 10. A comparison between the LT BL3 veneer and the MO0 veneer
esthetic parameters of fit have also been checked carefully, fine-grit diamond burs,finish-
ishing and polishing rubber heads (OptraFine Assortment, Ivoclar-
-Vivadent) were used to remove excess residual cement and to elimi-
nate all occlusal interfer-
ces.

During the follow up appoint-
ment, a final checkup and modi-
fications were made to eliminate all occlusal interference.

Relative translucency level
The level of translucency was kept minimal relatively to the patient age and shade white-
ness chosen by her, as our pri-
ority was to mask and boost the brightness, and brightness and translucency contradicted to a cer-
tain extent, though translucency kept relatively minimal. (Fig 12)

(Color restriction)
What makes bleach cases more complicated is color restriction, as in our present patient case, she wants to keep the old lower veneers that she had before, and replace just the upper with a brighter and more vital set of bleach veneers, so we are oblig-
gated here to keep a chromatic shade matching especially on the cervical part of the upper veneers with the lowers, and increase the level of brightness in the mid-third of the upper veneers than that of the lowers. (Fig 15)

Personality change
What we simply did was chang-
ing not just the patient smile literally, but changing the smile on her face emotionally, the feel-
ing that she can look younger pushed her to continue working on herself, and that appeared clearly on each follow up visit to the clinic she was making, one time skin was taken care off, the next time hair and make-up, then back again to the smile to contour it with a better frame of lips by using fillings. (Fig 14) So what we did is that we put her on the beginning of the cosmetic track. (A year after the dental treatment she looked one year younger) what dentist stated. So we contributed to change her life.

Dental Photo shooting
Our patient has a photogenic face and she didn’t mind to be our model for a few photo shoot-
ing sessions, which encouraged us to take all possible poses that showed clearly the strength area-
as and talent in fabricating such cases, some snakes with differ-
cent color contrast were used to show the optical properties of the translucent opal and bright Manzine material used. Thanks to the expert Mr. Florin Stoboran from Romania who helped in the final photoshoot. (Fig 15, Fig 16, Fig 17)

Conclusion
A decision to repeat the veneers with a new brighter set of ve-
neers was faithfully taken (after recognizing that a flawless set can be achieved if all obstacles can be taken into considera-
tions). The honest and ethical opinion of the dental teamwork (what we did was okay, but we can do better), even if the patient okayed the present outcome. This is what really takes the level of esthetic dentistry to the next level.

I would like to thank Dr. Duval Aloush for his faithful opinion and esthetic vision that played a big role in the successful out-
come of this case.

About the Author
Alham Farah, Syria
Dental Technician by the National Board for Certifica-
tion in USA (Dental Laboratory Technology) with a specialty of Dental Ceramic. is a member of the National Association of Dental Laboratory in USA, cur-
rently he is a material consult-
ant and opinion leader for Iv-
oclar Vivadent dental company for the Near East & Orient region since 2009, and MDT (Master Dental Technician) certified by the ICDE IvoclarVivadent, Swit-
zerland. He was a Teacher Lect-
turer at Alkhame University.

mCME SELF INSTRUCTION PROGRAM
CAPP together with Dental Tribune provides the opportunity with its mCME - Self Instruction Program a quick and simple ways to meet your continuing education needs. mCME offers you the flexibility to work at your own pace through the material from any location at any time. The content is international, drawn from the upper echelon of dental medicine, but also presents a regional outlook in terms of perspective and subject matter.

Membership:
Yearly membership subscription for mCME: 600 AED
One Time article newspaper subscription: 200 AED per issue.
After the payment you will receive your membership number and Allowing you to start the program.

Completion of mCME
- mCME participants are required to read the continuing medical education (CME) articles published in each issue.
- Each article offers 2 CME Credit and are followed by a quiz Questionnaire online, which is available on http://www. cappmea.com/mcme/questionnaire simplistic.html.
- Each quiz has to be returned to events@cappmea.com or faxed to: 09754368683 in three months from the publication date.
- A minimum passing score of 80% must be achieved in order to claim the credit.
- No more than two answered questions can be submitted at the same time.
- Validity of the article - 3 months
- Validity of the subscription - 1 year
- Collection of Credit hours: You will receive the summary report with Certificate, maximum one month after the expiry date of your membership. For single subscription certificates and summary reports will be sent one month after the publication of the article.

The answers and critiques published herein have been checked carefully and represent authoritative opinions about the questions concerned.

Articles are available on www.cappmea.com after the publication. For more information please contact events@cappmea.com or +971. 4 3616174

FOR INTRACTION WITH THE WRITERS FIND THE CONTACT DETAILS AT THE END OF EACH ARTICLE.

Fig 13. One month recall, Profile picture, showing the improvement in the interdental papilla and the relative translucency level with the lower set

Fig 12. One month recall, Close-up front picture, showing the improvement in the interdental papilla and the relative translucency level with the lower set

Fig 11a, 11b. The glamor smile right after cementing the second set of veneers, and using the polishing rubber heads (OptraFine, IvoclarVivadent)

Fig 17. The front set of veneers with a black background contrator

Fig 14. The change on our patient face from the time she showed up to the clinic, till one year recall visit

Fig 15. Bright manuous strips overlapping with translucent opal strips, all framed with halo effect

Fig 16. One of the artistic photos taken by Mr. Florin Stoboran, Romania, big thank to him

Fig 10a, 10b. The glamor smile right after cementing the second set of veneers, and using the polishing rubber heads (OptraFine, IvoclarVivadent)