

Great Cases From New Places

Our new methods and materials for fixing smiles are becoming more efficient and effective every day. Digital photography, cosmetic imaging, and temporization are improving dentistry-patient communication in many ways. This increased emphasis on diagnostics has had an immensely positive effect on overall patient satisfaction.

Marketing our services to the public has recently taken a great leap through websites, better marketing, and search engines. Cosmetic dentistry is a personal decision, and more people are choosing their dentists for elective cosmetic procedures in private—using the Internet. Today's patients have high expectations and demands for their elective procedures, and will

often do careful and thorough research before choosing the right dentist. Furthermore, the web can be a convenient, thorough educational tool that allows us to teach an entire new audience. The following case illustrates this point.

CONSULTATION

A young woman found my website after searching out cosmetic dentistry on the Internet. Although my office was almost 3 hours from her home, she took time off work and made the trip for her initial consultation. Examination revealed a healthy dentition and Class I posterior occlusion. However, because of the severe bell shape of the maxillary and mandibular incisors, she had crowding and an anterior open bite (Figures 1 through 4).

She informed me in no uncertain terms that orthodontics was out of the question.

Besides, she was quite satisfied (and rightfully so) with her natural facial esthetics. Moving her teeth might result in an altered facial and lip profile.

We began with digital photographs, study models, and a cosmetic imaging work-up. Digital imaging has always played an integral role in helping my patients accept treatment for cosmetic cases. By using Digital Dentist professional image editing software combined with the Levin Library of tooth designs (DigitDent.com), in-office imaging can provide simple, accurate, and realistic pictures of the simulated case. The Levin Library consists of 18 esthetic smiles printed in a full-color Smile Selection Workbook with corresponding digital images. The library was designed by mixing and combining the three major



Figure 1—Preoperative full-face view.



Figure 2—Preoperative image showing malaligned teeth and anterior incisor edge.



Figure 3—Preoperative palatal view of the maxillary arch.



Figure 4—Preoperative lingual view of the mandibular arch.

Figure 5—Cosmetic image simulating whitening and porcelain veneers.

Figure 6—Laboratory wax-up of the central and lateral incisors.

Figure 7—Laboratory wax-up of the central and lateral incisors.

shapes of anterior teeth. The Smile Selection Workbook presents each smile design in portrait, close-up smile, and close-up profile views. The patient then chooses the design from the anterior views and verifies the choice from the profile views. The Workbook is available personalized with the dentist's or laboratory's name on the cover.

The digital image module of the Levin Library consists of retracted smile views and individual "mini-images" of each tooth of every smile design. The imaging system allows the mini

images to be "dragged" with absolute precision into the patient's digital photo for simulation of porcelain veneers, crowns, or even dentures. Once the chosen smile design is used to simulate the new smile, you can further refine the image by altering the gingival contour, shade, and incisal edge position of each tooth. In addition, the patient can receive a copy of his or her simulated smile during that very same appointment. Of course, patients should be informed that the simulated picture gives them a good idea of how their final

smile will look, but cannot always be reproduced exactly.

At the Chair continued



Figure 7—Stone model with wax-up, preparation guide, and hand-die masters for the preparation.



Figure 8—Teeth whitened from A4 to A2 cervical-to-incisal after an in-office whitening procedure.



Figure 9—The Shofu Shade Eye-Ex Chroma Meter.



Figure 10—the Levin Berlandi Contemporary Casting Kit.



Figure 11—Mopla Super-Snap discs used at end of surgery angles of the preparation.



Figure 12—Preparation pads placed over the maxillary preparations to ensure adequate reduction.



Figure 13—Adhesive reduction verified with the maxillary preparation pads.



Figure 14—Seating provisional bonded matrix filled with autoreactive temporary crown and bridge material.

will appear as detailed by the images (Figure 6). The incisor was reshaped, straightened, and lengthened. The wax-up was then duplicated in stone. This duplicate model was placed in a Biocast vacuum (Biocast Group). A clear rigid split material was used to make the preparation guide. This was removed, trimmed, and a 1-mm hole was drilled on the gingival, midfacial, and incisal of each tooth to be restored. At the preparation

appointment, by placing a periodontal probe in each hole, adequate reduction according to the wax-up can be ascertained.

Next, using the same vacuum unit, a soft split was adapted to the same duplicate model. These were removed and trimmed. The hardwax matrices were placed for the easy creation of temporaries in the mouth that duplicate the diagnostic wax-up based on an A5 to A1 cervical, and A1 incisal (Figure 7).

TUTORIAL: WHITENING PROCEDURE

By using the Rembrandt® In-haus, one visit whitening procedure (Den-Mat Corp.), you can initiate any cosmetic case during the first visit and achieve an average nine shades whiter in just over an hour.² The patient's soft tissues were protected with a liquid rubberdam. A 35% hydrogen peroxide whitening gel was then applied to her teeth, and the light was positioned to activate the gel for 20 minutes. The whitening gel was removed to apply fresh gel, and this process was repeated for two more 20-minute sessions. In just one appointment, the patient's teeth had whitened from an A5 to A1 cervical, and A1 incisal (Figure 8).

Cosmetic Color and Shade Eye-Ex[®]
The Shofu Shade Eye-Ex[®] Chroma Meter is a highly accurate electronic shade-taking

and color-matching device.

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