

# Advances In Prosthodontics™

New Findings & Best Practices for Cosmetic & Restorative Dentistry

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## Do You Have a Patient with High Esthetic Demands?

After Extraction  
& Graft



After Implant  
Restoration



**Here's the story of a patient who was referred from  
another dental professional...**

If you have a patient with several missing, broken or severely worn teeth—or potentially high esthetic demands—they may be a candidate for oral rehabilitation with the assistance of an advanced Prosthodontist.

**Read more on the next page...**

## ◆ Do you want another opinion on a complex case? Or to meet and share ideas?

There are many ways we can help each other by working together on complex cases and by sharing knowledge and experience.

With your reputation for quality dental care, and my experience with restorative treatments, we can work together on advanced cases and both benefit!

If you'd like to meet to discuss a treatment, or talk on the phone about how we can help each other, please call or email me with specific days and times when you're available to talk or meet.

## CASE SUMMARY: Implant Abutment and Crown Contour

Dr. Bryan Jacobs, Prosthodontist

Patient “Eileen” was referred to me by another dental profession in the area due to her complex needs. She presented with a fractured, non-restorable #8. A CBCT scan was taken and, due to lack of a facial plate, extraction and grafting were planned with delayed implant placement.

**As a prosthodontist**, I have experience with complex cases, and can plan multi-stage treatments that coordinate with a patient’s general dentist and other dental specialists. I also am comfortable treating patients with high esthetic demands.

### Eileen’s treatment plan included:

- A removable provisional worn during graft healing.
- At the time of implant placement, an immediate provisional was fabricated, with concave sub-gingival contours.
- After three months of healing, the provisional was removed and re-contoured (in this case, additively) to provide proper tissue support.
- The final restoration was made in a screw-retained fashion.

**Aspects that made this case unique were** Eileen’s graft worked so well, that she had an excess of tissue — both hard and soft. The key to allowing a nice esthetic result then, was to ensure ideal implant depth, allowing the abutment contour to fully match the profile of the adjacent central incisor. The first provisional, with its concave contours, makes it look like the implant is too shallow. Fortunately, the implant platform was placed based on the intended ideal final crown, not on the position of the existing soft tissue or bone. Thus, the provisional could be modified and the contour adjusted. It’s amazing how the sub-gingival contour completely changes the appearance of the tooth.

Also, due to the alveolar bone position, the implant could not be placed with the long axis in an ideal spot for screw retention. However, for various reasons, screw-retention was desired in this case. To allow for this, the custom abutment and crown were designed with an angled screw-access channel. A specialized driver was used to torque a matching screw through this channel.

I gave Eileen my full warranty and sent her back to the referring office for long-term care. I give all referred patients a warranty and refer them back to the general dentist for regular hygiene unless advised otherwise by the referring office, depending on the patient and treatment. If you have comments or questions about this example, please email me at: [bryanjacobs@dentalprofessionals.com](mailto:bryanjacobs@dentalprofessionals.com)



### ◆ Do you have a patient in Eileen’s situation? Or another complex case?

If you have a question about a case and want another opinion, give my office a call. Or, if there’s a case that you want to work together on, please fill out and send in the enclosed referral form.

My office and I will take great care of your patient and keep you informed. Dental professionals refer to me as **The Complex Case Specialist™** because I perform complex cases every day.

Quickly Get the Latest Research On Procedures & Materials For Better Outcomes...

### **Considerations of implant abutment and crown contour: critical and subcritical contour**

Su H, Gonzalez-Martin O, Weisgold A, Lee E.  
Int J Periodontics Restorative Dent. 2010 Aug;30(4):335-43.

#### **Abstract**

Adequately contoured implant restorations need to transition from the circumferential design of the implant head to the correct cervical tooth anatomy. The implant abutment may be used to effect this transition provided there is sufficient running room. Implant restorations have been described as overcontoured, flat, and undercontoured.

It has been shown that overcontouring will generally cause apical positioning of the gingival margin, while undercontouring will induce the opposite effect. However, these terms have been applied arbitrarily and without allocating specific determinants.

Furthermore, the concept of “contour” as originally adapted from tooth-supported restorations needs to be redefined as it pertains to implant dentistry. Two distinct zones within the implant abutment and crown are defined as critical contour and subcritical contour.

Any alteration of critical or subcritical contour can modify the soft tissue profile. The purpose of this paper is to determine the effect of abutment contour modifications at these zones on the peri-implant soft tissues, including the gingival margin level, papillae height, gingival architecture, labial alveolar profile, and gingiva color.

#### **Conclusions**

Soft tissue esthetics around implant restorations may be enhanced through contour modifications of the abutment or implant-supported crown. The effects of these modifications vary depending on whether the contour alterations are applied on a critical contour or a subcritical contour because both have significant clinical implications.

In cases where implant placement is ideal, altering critical and subcritical contour can optimize the clinical outcome by creating a better soft tissue profile. Further clinical studies are necessary to determine the limitation of the implant abutment and crown contour and long-term results should be evaluated.

#### ◆ **Have A Laugh: Denture Inspired Bracelet...**

I hope I made you smile during your busy day! I take the care of patients referred to me very seriously, including knowing how to educate them so they feel comfortable. I specialize in the treatment of complex cases, usually involving several procedures over months of care.

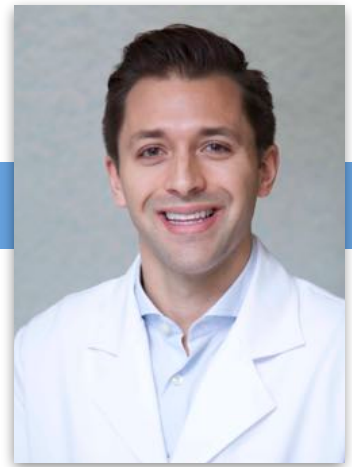
The next time you see a challenging case, please feel free to call me and we can discuss treatment planning or I can help you with any part of the treatment. My goal is to be a resource for your office by helping manage difficult and time-consuming procedures, restoring the function and esthetics that the patient desires, then referring them back to your office for their ongoing care.





# Dr. Bryan Jacobs

DMD, MS, Prosthodontist ♦ The Complex Case Specialist™



## About Dr. Jacobs' specialization:

As a Prosthodontist, Dr. Bryan Jacobs specializes in fixed and removable prostheses, dental implants, and all phases of esthetic dentistry.

Dr. Jacobs' prosthodontic training and experience make treatments of complex cases more successful, including the following examples:

- Patients with ill-fitting dentures, severely worn or damaged teeth can receive a single dental implant or a full arch of natural-looking teeth.
- Patients who have suffered from traumatic injury, congenitally missing teeth, or a chronic condition can receive oral prostheses, which may be a combination of dental implants, crowns, bridges, or veneers.
- Patients with severe neglect of their oral health can receive a full reconstruction to restore function and esthetics.

*Dr. Bryan Jacobs practices prosthodontics at Dental Professionals in Chicago and Skokie, working with GP's and other dental specialists to restore the smiles and confidence of patients facing a difficult diagnosis.*

## Personal Message To Fellow Dental Practitioners:

"As the referring dentist, you know your patient's mouth and have key insight into your patient's needs. I want to work with you to provide your patients with the best possible treatment outcomes. I will treat your patient in a manner that will reflect well on you and strengthen your relationship with your patient. I am here to make you look good! When your patient's care is completed, they are referred back to your office for their ongoing dental care. I am grateful for your collegueship and trust with your patients!"

Dr. Jacobs' has an easy online referral form at:  
[DentalProfessionals.com/referring-doctors](http://DentalProfessionals.com/referring-doctors)

### Protho Pledge

When your patient is referred:

- ✓ I will only treat what's been referred.
- ✓ I will send you updates.
- ✓ I will be part of your team, not take over your patients.

## ◆ Why other dental professionals work with a Certified Prosthodontist

Certified Prosthodontists are specialists in implant, esthetic, and reconstructive dentistry.

### 1. You have a patient requiring treatment outside your typical scope of practice.

Examples include patients with vertical dimension discrepancies, severely resorbed ridges, inadequate interarch space, severe bruxism, traumatic tooth loss, or congenital abnormalities.

### 2. You have a patient with complex needs that may drain your time.

If your patient may require treatment from several specialists, Certified Prosthodontists can help because they are trained to appropriately stage and manage complex treatment plans.

### 3. You have a demanding patient who wants perfect esthetics.

Examples include patients with a high smile line or needing a single tooth replacement in the esthetic zone. A Certified Prosthodontist is trained in selecting the best solutions for high-demand patients.

### 4. You have a question and want to discuss a case with a colleague to ease your mind.

A Certified Prosthodontist can be an excellent resource for you to ask questions because they are trained in many types of complicated treatments. For example, you may want to consult a Certified Prosthodontist for complex implant-supported restorations. They can work with you or complete the treatment for you to achieve the best in both function and esthetics.