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## Treatment guidelines for aesthetic implant therapy

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### EDUCATIONAL OBJECTIVES

The overall goal of this course is to provide the reader with a greater understanding of some of the many factors affecting the development of optimal anterior aesthetic implant restorations in partially edentulous patients.

Upon completion of the course, participants should be able to:

1. Refine their implant-treatment protocols to better incorporate such factors as the central incisor-proportions, facial and dental midlines, axial inclinations, maxillary incisal edge and lower lip contours, maxillary interproximal contact areas, arch form, crown heights, and anterior gingival symmetry.
2. Identify three planes of space that are important in planning implant treatment.
3. Understand how peri-implant soft-tissue biotypes affect overall treatment outcomes.
4. Discuss how the position of the osseous crest affects anterior aesthetics.

### ABSTRACT

Thorough and accurate diagnoses are essential for providing optimal, state-of-the-art dental treatments that have predictable prognoses and long-term clinical success. Over the past 40 years, osseointegrated dental implants have proven to be a clinically successful treatment for edentulous and partially edentulous patients. Due to various advances, implants are now used in clinical situations that were once unimaginable. This paper outlines treatment guidelines for achieving aesthetically and functionally optimal maxillary anterior implant restorations.

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1. Go to [www.JIRD.com/CEarticles](http://www.JIRD.com/CEarticles).
2. After reading the article, click on the "Take CE Quiz" button.
3. Click "Start Quiz" to register.
4. Input answers and click "Next."
5. Fill out the evaluation and click "Finish."
6. A completion email will be sent immediately to the email address used for registration.

<sup>†</sup> The author has a financial relationship with Zimmer Biomet Dental resulting from speaking engagements, consulting engagements, and other retained services.

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# CE Quiz N°1

1. Which of the following preoperative steps are crucial to obtaining a good aesthetic result?
  - a. Identification of the maxillary and mandibular incisal edge locations
  - b. Evaluation of tooth display during speaking, smiling, and resting
  - c. Taking preoperative clinical photographs
  - d. All of the above
2. For most people, the width of the maxillary central incisor should be what percentage of the length?
  - a. 75-80%
  - b. Just under two-thirds (the classical "Golden Proportion" of 1:1.618)
  - c. Roughly equal
  - d. It is not possible to generalize
3. What proportion of dental relationships have been found to fall within the classical Pythagorean "Golden Proportion"?
  - a. 75%
  - b. 50%
  - c. Less than 20%
  - d. Less than 6%
4. As most people age, the amount of their maxillary incisor display:
  - a. Increases slightly
  - b. Decreases significantly
  - c. Remains fairly consistent
  - d. Is greater for males than females
5. The aesthetic quality of most smiles will be higher if crown heights in the posterior maxilla, relative to the maxillary canines, are:
  - a. Symmetrical with those in the anterior
  - b. About the same height as those in the anterior
  - c. Higher than those in the anterior
  - d. None of the above
6. For most patients:
  - a. The maxillary central incisors should have the longest clinical crowns
  - b. The maxillary lateral incisors should have the longest clinical crowns
  - c. The maxillary canines should have the longest clinical crowns
  - d. None of the above
7. What is the normal reported height of the gingival scallop apical to the free gingival margin of natural teeth?
  - a. 1-2mm
  - b. 2-3mm
  - c. 4-5mm
  - d. 3-6mm
8. To preserve the papillae in the natural dentition, what distance between the interproximal bone height and the interproximal contact area has been reported to be optimal?
  - a. Between 3mm and 6mm
  - b. 5mm or less
  - c. 6mm or more
  - d. Less than 7mm
9. Which tooth shape is considered to have the most favorable impact on soft-tissue contours?
  - a. Tapered
  - b. Triangular
  - c. Ovoid
  - d. Square
10. An aesthetically pleasant smile depends on:
  - a. The quality of the dental and soft-tissue elements
  - b. The relationships between the teeth and lips during smiling
  - c. The way a) and b) are integrated into the facial composition
  - d. All of the above

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