

Esthetic Smile Design

Limited Orthodontic Therapy to Position Teeth for Minimally Invasive Veneer Preparation



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KEYWORDS

- Smile evaluation • Multidisciplined treatment • Diagnostic wax-up
- Porcelain veneers

KEY POINTS

- At present, the standards of dentistry are being elevated, because a greater emphasis is being placed on esthetics along with functionality.
- Minimally invasive dentistry has become an essential component in creating restorations that are both functional and have increased longevity.
- In the following case, the patient underwent 9 months of orthodontic therapy to correct her improper overbite, overjet, and spacing of her dentition to position the teeth for future restorations that were minimally invasive.
- Orthodontic therapy was paramount in positioning the teeth so that the future restorations would have ideal axial inclinations and limit tooth reduction in order to be as minimally invasive as possible.

INTRODUCTION

In the following case, a comprehensive treatment plan was created to address the chief concerns of the patient. The initial treatment plan was completed with the use of the Smile Evaluation Form ([Fig. 1](#)).¹ To achieve the desired esthetic results, a combination of dental modalities was deemed necessary and included orthodontics as

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A

NYU College of Dentistry Smile Evaluation Form

Revised JRC Aug. 2014

Patient Name: _____ Chart #: _____ Date: _____ Faculty Start Sig: _____ #: _____

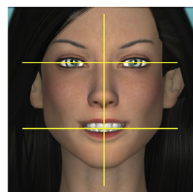
Are you happy with the way your teeth appear when you smile? **YES** **NO** (circle one)

If NO, what is it about your smile you would like to change?

Patients requests and expectations: _____

Preferences: ☐ White Aligned Teeth ☐ Natural Teeth with Slight Irregularities

Facial Analysis

**Lips**

- ☐ Thick
☐ Medium
☐ Thin

Inter- Pupillary line

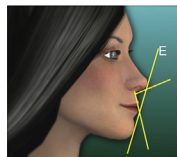
- ☐ Normal ☐ Slanted down RT LT

Commissural line

- ☐ Normal ☐ Slanted down RT LT

Facial midline

- ☐ Normal ☐ Off to Patients RT LT

**E- plane**

- ☐ Max ____ mm
☐ Man ____ mm

Nasal-Labial

- ☐ > 90 degrees
☐ < 90 degrees
☐ = 90 degrees

Skeletal Pattern

- ☐ Skeletal Class I
☐ Skeletal Class II
☐ Skeletal Class III

Profile

- ☐ Normal
☐ Convex
☐ Concave

Occlusion/Orthodontic Evaluation



UFH/LFH
Lower Facial Height
[Sn-Me]

- ☐ WNL
☐ Excess
☐ Deficient

Abnormal Functions

- ☐ Digit sucking e.g. thumb
☐ Object biting/sucking
☐ Tongue Thrust Swallow
☐ Grinding / Bruxism
☐ Lip sucking/biting
☐ Mouth breathing
☐ Clenching
☐ Other _____

Midline

- ☐ Upper and lower midlines coincide with the facial midline
☐ Upper dental midline is deviated to the **R** **L** (circle)
☐ Lower dental midline is deviated to the **R** **L** (circle)

Overbite

- ☐ WNL [0-30%] ☐ Moderate [31-69%] ☐ Severe [70-100%]
Anterior Open Bite ____ mm ☐ Dental ☐ Skeletal

Overjet

- ☐ WNL [1-2 mm] ☐ Moderate [3-5mm] ☐ Severe [more than 5mm]

Maxillary

- ☐ Crowding ☐ Spacing
☐ Anterior Crossbite ☐ Dental
☐ Posterior Crossbite **R** or **L** ☐ Dental

Mandibular

- ☐ Crowding ☐ Spacing
☐ Skeletal ☐ Functional shift
☐ Skeletal ☐ Functional shift

Classification of Occlusion/ Malocclusion

- ☐ Normal Occlusion ☐ Cl I malocclusion
☐ Cl II Div 1 ☐ Cl II Div 2 ☐ Cl

Phonetic Analysis

**"M" Sound - Rest Position**

Show of teeth in the space
between lips visible
Max ____ mm
Mand ____ mm

**"E" Sound - Maximum show of teeth**

Interlabial space occupied
by maxillary teeth
☐ <80%
☐ >80%

**"S" Sound - space between maxillary and mandibular incisors**

- ☐ Normal
☐ Lip
☐ S - Sound Deficiency

**"F" & "V" Sounds - Max. Incisor edge position in relation to lower lip**

- ☐ at wet/dry border
☐ in front of wet/dry border
☐ behind wet/dry border

Swallowing

- ☐ Normal
☐ Abnormal
☐ tongue thrust



Fig. 1. (A) Smile Evaluation Form, page 1. (B) Smile Evaluation Form, page 2. (Courtesy of John Calamia, DMD; Mitchell Lipp, DDS; and Jonathan B. Levine, DMD, GoSMILE Aesthetics, 923 5th Avenue, New York, NY 10021; Adapted from Leonard Abrams, 255 South Seventeenth Street, Philadelphia, PA 19103, 1987; and Dr Mauro Fradeani, Esthetic Rehabilitation in Fixed Prosthodontics Quintessence Publishing Co, Inc, Carol Stream, IL, 2004.)

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