

# Esthetic Treatment Planning

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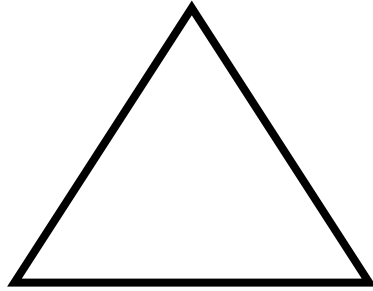
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## Facial Analysis



**Anterior Smile**

**Posterior Smile**

# Facial Analysis

## Treatment Alternatives

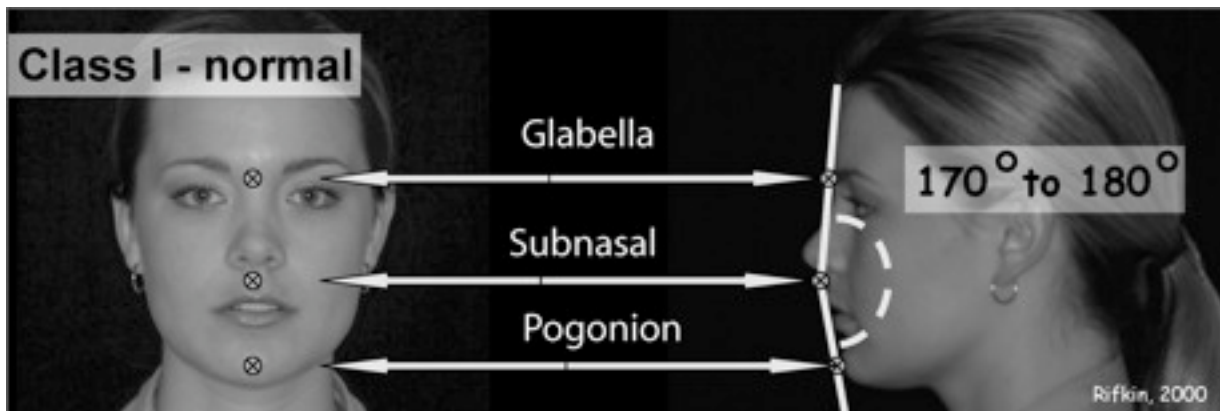
Orthognathic surgery

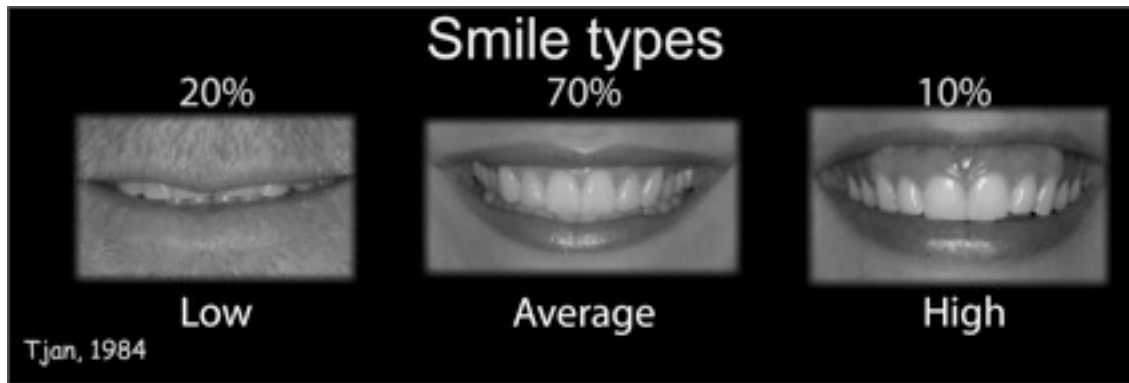
## Diagnosis

Retrognathic  
Prognathic  
Mid-face deficient  
Long lower 1/3 face

## Start Outside

What's the skeletal profile?  
What is the lip dynamic?





## Analysis of the Gummy Smile

### Six basic reasons for the gummy smile:

- Anterior over eruption
- Wear with compensatory eruption
- Altered passive eruption
- Short upper lip
- Vertical maxillary excess
- Hyper-mobile lip

### Required photos:

- Full face lips at rest
- Full face profile lips at rest
- Exaggerated "E" position

### These reasons can be better organized in two categories:

- Facial/lip related
  - Short upper lip
  - Vertical maxillary excess
  - Hyper-mobile lip
- Dental related
  - Anterior over eruption
  - Wear with compensatory eruption
  - Altered passive eruption

### Rule out dentally related reasons first. Ask three questions:

- Is there excess wear?
- Does the anterior gingival plane consistent with the posterior gingival plane?
- Is the width to length ratio of anterior teeth normal?

## **Short upper lip**

Commissure and philtrum heights will differ 3 mm or greater  
Interlabial space greater than 5 mm

## **Vertical maxillary excess**

Interlabial space greater than 5 mm  
Long lower 1/3 of face in comparison to middle and upper independently

## **Hyper-mobile lip**

Commissure and philtrum heights will have less than 3 mm difference  
Interlabial space less than 5 mm

# **Anterior Smile:**

Are the upper incisors edges in the right position?  
Are the upper incisors the correct proportion?

## **Treatment Alternatives:**

Restore  
Reposition (ortho)  
Reshape  
Surgery

## **Diagnosis:**

Upper incisor inclination  
Upper incisor edge position  
Width to Length ratio/Gingival levels

## **Are the incisor edges in the right position?**

Check Horizontally  
Check Vertically

## Neutral zone determines tooth position

Supported by upper lip

Determined by lower lip

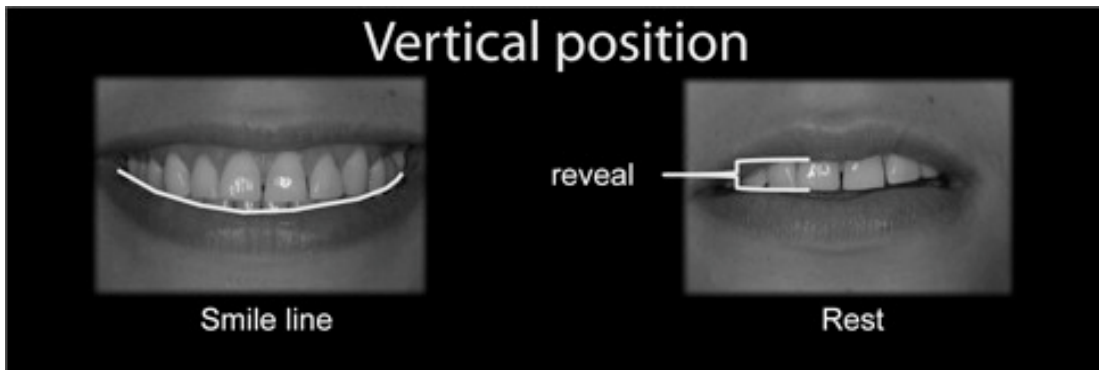
Too far forward

Too far back

Too long

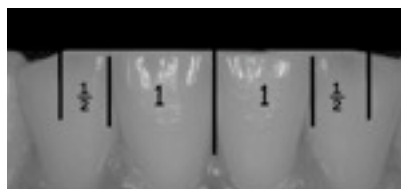
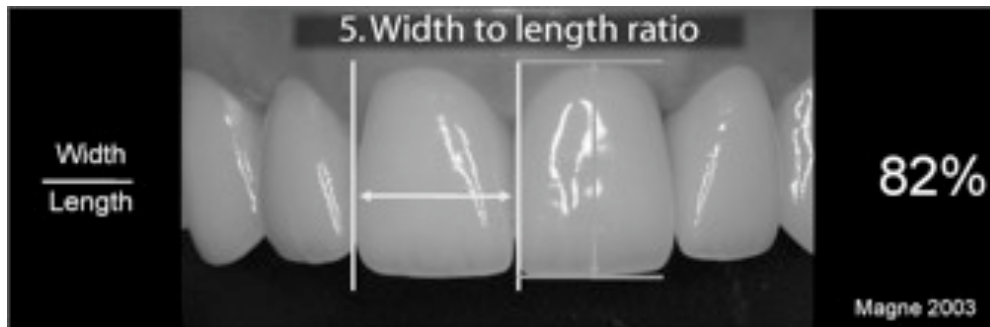
Too short

Vertical Position (see image below)



## Right proportions:

- Check width to length ratio



Width / Length = 82%

$100 / 82 \times \text{width} = \text{The length of the tooth}$

$1.22 \times \text{width} = \text{The length of the tooth}$

$1 \frac{1}{2}$  Mandibular central incisor = Maxillary central incisor

## Posterior Smile

Is the buccal corridor deficient?

Is there a gingival step?