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**Assessment of Certain Parameters for Smile Designing with Digital
Photographs of Young Individuals: An Observational Study**

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ABSTRACT:

Background: In order for the art of the smile to be truly achieved, it is imperative that patients' positive attributes of beauty are recognized and accentuated by their clinicians. Various factors that contribute to the aesthetics of a smile can also be identified based on the facial, oral-facial, dentogingival, and dental components.

Aim: The aim of this study is to evaluate the type of smile arc, relationship of smile arc with lower lip, type of gingival visibility, relationship between maxillary incisal edge and lower lip, number of teeth displayed in natural smile and buccal corridor related to the smile aesthetics.


Materials and Methods: A total of 120 young individuals aged between 18 and 28 years, living in different cities of Gujarat included in the present study and the type of smile arc, relationship of smile arc with lower lip, type of gingival visibility, relationship between maxillary incisal edge and lower lip, number of teeth displayed in natural smile and buccal corridor of the individuals were examined.

Results: As a result of the study, a convex smile arc (55.8%), parallel incisal edges to the lower lip (45.8%), maxillary anterior incisal edges were found not to touch the lower lip (52.5%), gingival visibility that is class III (45.8%), a smile width that is 10 teeth (42%), and normal buccal corridors (70.8%) were observed as the most frequently observed characteristics. All studied variables showed statistically significant differences between male and female groups ($P < .01$), with the exception of buccal corridors ($P > .01$)

Conclusion: Within the limitation of the study it can be concluded that various smile parameters assessed in this study can help dentate, partially dentate, or edentulous patients restore their smile by examining smile arc type, relationship of smile arc with lower lip, type of gingival visibility,

relationship between maxillary incisal edge and lower lip, number of teeth displayed in natural smile and buccal corridor.

Keywords: Smile arc, Gingival visibility, Smile width, Buccal corridor

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