



**“A COMPARATIVE ANALYSIS OF TOOTH FORM BY TEMPERAMENT  
AND VISUAL PERCEPTION BASED ON THE CONCEPT OF  
VISAGISM”**

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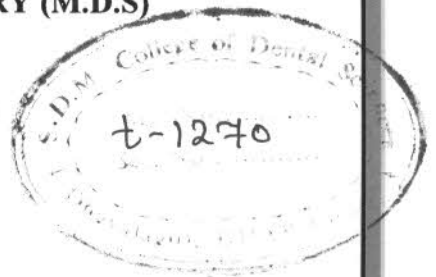
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## ABSTRACT

**Background and Objectives:** 1) To correlate the tooth form and the temperament of the patient and predetermine the treatment outcome.

2) Understanding the advantages to be gained using the Visagism concept in dental practice.

3) Comparison between psychological background and aesthetic perception of observers.

**Methodology:** 220 subjects aged between 18 and 35 years were selected from the Out-patient department of the institute visiting the Department. of Prosthodontics. It was made sure they have a symmetrical face and a full complement of natural teeth. Subjects did not undergo any fixed or removable prosthodontic or orthodontic treatment. They did not have any history of oral destructive habits, trauma or missing anterior teeth. A Digital single lens camera was used for recording the photographs of the subjects. Windows Powerpoint, version 10.0 was used for studying the photographs. Each subject was seated upright in a comfortable position, cheek retractors were applied and the subject was instructed to close his/her teeth and look at the camera lens while shooting the photograph. A questionnaire was prepared to help discover temperament of the subject. The results of the questionnaire were kept blinded. Impressions of both the arches were made with the help of rubber based impression material and 4 casts prepared. According to the temperament, four types of wax mock-ups were made using the software and questionnaire as a guide. Following this, index on a wax mock-up was prepared and try-in done. After placement of the temporaries, photographs were taken. The post temporary material photographs with all tooth forms based on the temperament would then be rated by different observers (both laymen and dentists). After the rating was done, comparison were done with the blinded results of temperament based on the questionnaire and statistical analysis was performed between the 2 groups statistically. hence

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proving correlation between psychological background of patients and aesthetic perception of observers.

**Results:** Based on this study it was seen that after the blinded questionnaire the majority of the subjects fell into the Sanguine category 75(34.1%) while the least were 31(14.1%) as phlegmatic out of the total sample of 220 subjects. Perception between both groups calculated to be 0.19 (slight agreement) between Perception by layman and dentist and was statistically significant ( $p=0.00$ ).

**Conclusion:** Visagism is a novel concept that applies the principles of visual art to the composition of a customized smile. Integrating concepts of visagism it was seen that based on questionnaire the temperament deduced most commonly was the Sanguine temperament. While based on Perception dentists chose the rectangular tooth form while laymen chose the oval tooth form

**Keywords:** Temperament, Digital Single lens Camera, Windows Powerpoint, psychological background, perception

