

### PFP-03

## Health Science Perspective on Occlusion and Smile Line Awareness: Impact on Confidence Level

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Smile aesthetics are closely linked to facial harmony and self-confidence. Occlusal traits and smile line are considered important elements in dental appearance, but their psychological impact is not well established. To evaluate the relationship between occlusion and smile line and assess their influence on patients' confidence levels. A cross-sectional study was conducted among 121 participants, including AIMST University students, staff, and dental clinic patients, selected through convenience sampling. Participants aged 17 to 60 years with natural dentition were included. Data collection involved a self-administered questionnaire on confidence and smile perception, clinical assessment of occlusion using Angle's classification, and measurement of overjet and overbite. Smile lines were categorised through clinical observation. Statistical analysis using chi-square tests was applied to assess associations. No statistically significant association was found between molar classification, overjet, overbite, and smile line ( $p > 0.05$ ). Similarly, smile line type was not significantly correlated with patients' confidence levels. However, 72.7% of respondents (88 out of 121) reported willingness to undergo occlusal correction to improve their smile, suggesting a perceived connection between dental alignment and self-confidence. Although objective clinical measurements did not show a strong association between occlusal traits and smile line, the subjective responses highlight the psychological value patients place on their dental aesthetics. These findings support a patient-centred approach in dental treatment planning, considering both functional and aesthetic expectations.

**Keywords:** Occlusion, Smile line, Self-confidence, Overjet, Overbite

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