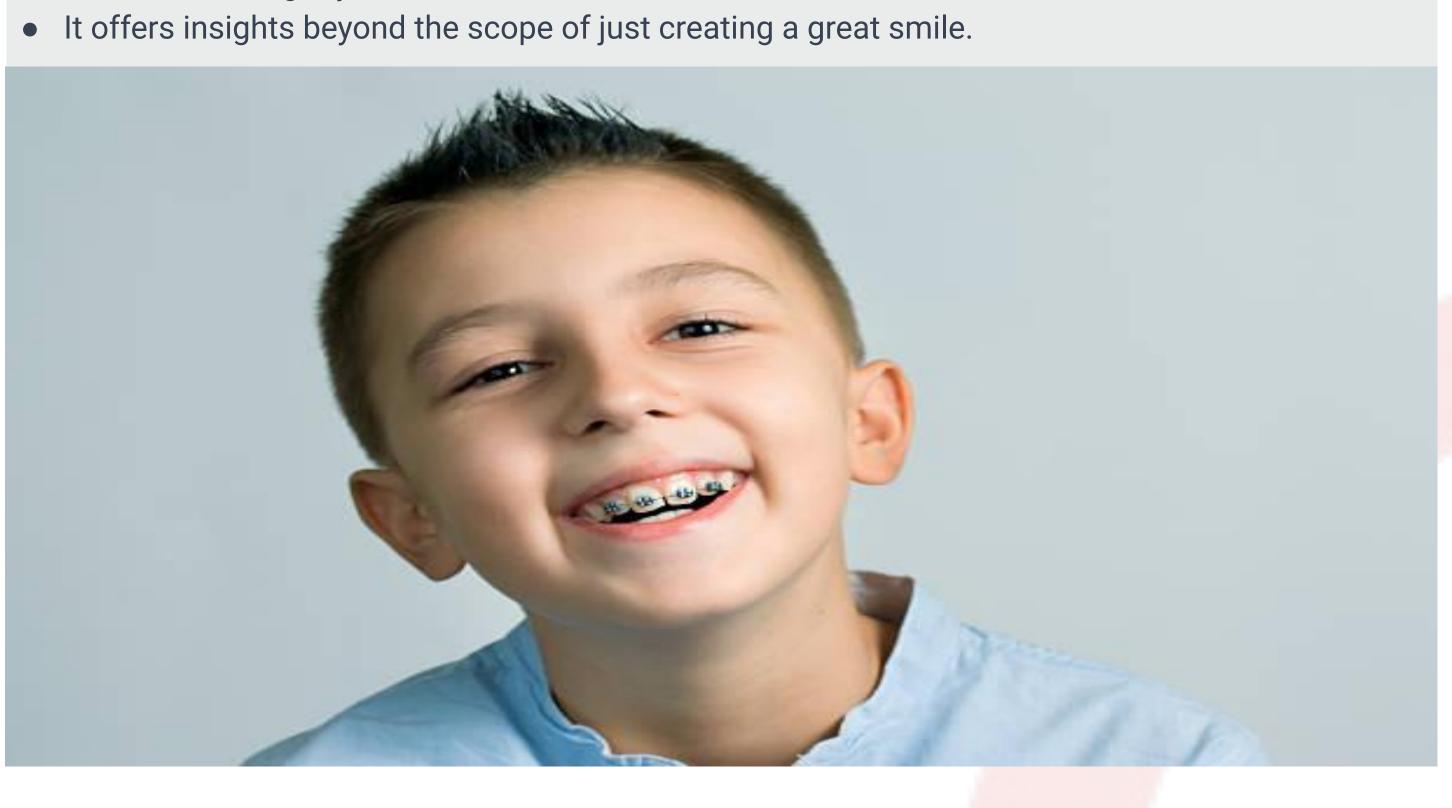


## Introduction

- Orthodontic treatment greatly improves the quality of life for those seeking dental correction.
- Besides aligning teeth and correcting jaw structure, it profoundly impacts various aspects of a patient's well-being.
- Orthodontics delves into the multifaceted ways it enhances patients' lives, going beyond cosmetic improvements.
- Studies aim to thoroughly explore how orthodontic treatment affects quality of life, identifying factors that magnify these effects.



## Methods

- Databases utilized: Ovid, Scopus, Web of Science, and PubMed.
- Search strategy involved a combination of terms: Quality of Life, Orthodontics, Outcomes, Life Quality, QOL, and Health-Related Quality of Life.
- The search strategy resulted in collecting and analyzing 285 distinct scholarly articles.
- This research poster focuses on six specific articles that examine the Quality of Life of Orthodontics patients.

	Inclusion	Exclusion
Time Period	Literature published anytime	N/A
Language	English	Non-English
Article Type	Published Peer-Reviewed Articles	Review Article
Article Criteria	Orthodontic Patients and Quality of Life	Articles not rel orthodontic par quality of life

 Table 1. Inclusion/Exclusion Criteria for Quality of Life in Orthodontic Patients.

# **Quality of Life in Orthodontic Patients**

Gabriel Eisenhuth; Claudia Eisenhuth; Ryann Glenn; Samantha Lee; Tiffany Nelson; Amir Mohajeri; Connor Schwartz; Man Hung; <sup>1</sup>Roseman University, College of Dental Medicine, <sup>2</sup>Roseman University, College of Graduate Studies

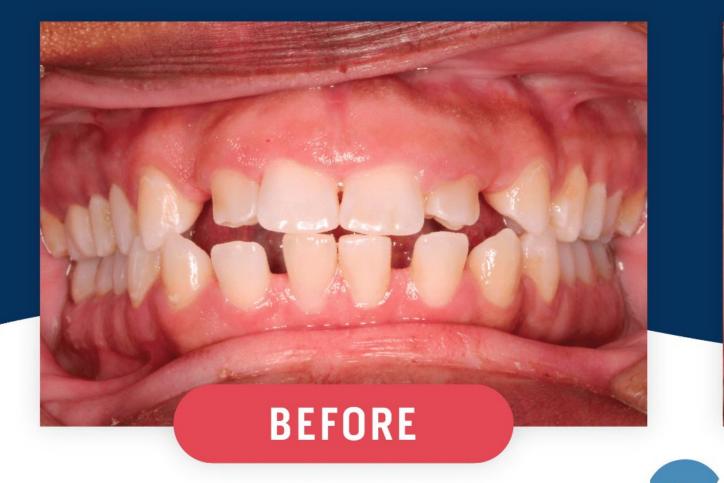
# Results

- Studies investigating Oral Health-Related Quality of Life (OHRQoL) in orthodontic treatments reveal nuanced impacts across demographics.
- Findings suggest potential benefits for individuals, including children with low psychological well-being and adults undergoing orthodontic treatment.
- A specific study involving 44 adults using clear aligners or fixed appliances showed that those with clear aligners reported higher OHRQoL and shorter treatment durations compared to those with fixed appliances.
- Overall, these findings collectively emphasize the positive influence of orthodontic interventions on reported OHRQoL across various age groups and treatment methods.

	Reason for treatment	Number of Participants	Study
This suggests	aesthetics, function, pain	118 adolescent	(Agou S. et al., 2011)
Patients treate treat	Crowding (function)	44 adults	(Alfawal et al., 2022)
Hypodontia ha Provision of r re	Hypodontia (aesthetics, function)	82 participants	(Anweigi et al., 2013)
This study indic appearance co of C	labial orthodontic treatment (aesthetics)	427 adolescent	(Ao et al., 2020)
edu effect	Patients seeking orthodontic care	42 patients	(Baidas et al., 2020)
Although both gorthodontic	severe skeletal discrepancies (function)	60 patients	(Chapman et al., 2018)

Table 2. Analyzing six different research studies examining the impact of OHRQoL on patients after undergoing orthodontic treatment.

# **BEFORE & AFTER:** BRACES





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## Key Findings

- s that children with low psychological well-being can benefit from orthodontic treatment.
- ted with clear aligners reported higher OHRQoL and shorter atment duration as compared to those treated with fixed appliances.
- has a significant impact on oral health related quality of life. f resin bonded bridges has a positive impact on oral health elated quality of life of patients with hypodontia.
- icates that dental aesthetics, social reinforcement and dental comparison are reliable predictors of psychosocial dimension OHRQoL among adolescent orthodontic patients

## Age, gender,

- ucational level, and socioeconomic status had no t on the OHRQoL. The definite treatment need had a marked negative effect on the OHRQoL.
- groups showed similar improvements in OHRQoL following
- ic treatment, the non-cleft group had significantly greater improvement in their PAR outcome.



- life.
- facets of patients' lives.



- orthodontic treatment.
- appliances.
- OHRQoL dimensions.
- negative effect.
- group showing greater improvement in clinical outcomes.
- quality of life.





# **Future Directions**

• Prioritize future research on the long-term impact of orthodontic treatments on patient quality of

• Conduct post-treatment tracking to comprehensively assess enduring effects across different

 Investigate the evolving landscape of technology and treatment modalities in orthodontics. • Continually assess emerging technologies like clear aligners and digital planning systems to gauge their influence on patient experiences and quality of life during and after treatment.

# Conclusion

• Various studies on Oral Health-Related Quality of Life (OHRQoL) in orthodontic treatments provide a comprehensive understanding of impacts on patients' lives. • Highlights include benefits for individuals with low psychological well-being undergoing

• Clear aligners show higher reported OHRQoL and shorter treatment durations compared to fixed

• Factors like hypodontia, dental aesthetics, and socio-cultural influences significantly affect

• Demographic factors have minimal impact on OHRQoL, but treatment necessity has a notable

• Both cleft and non-cleft groups experience improved OHRQoL post-treatment, with the non-cleft

• These insights stress the need for tailored, holistic approaches in orthodontic care, considering individual needs and psychological aspects for optimizing patient experiences and overall