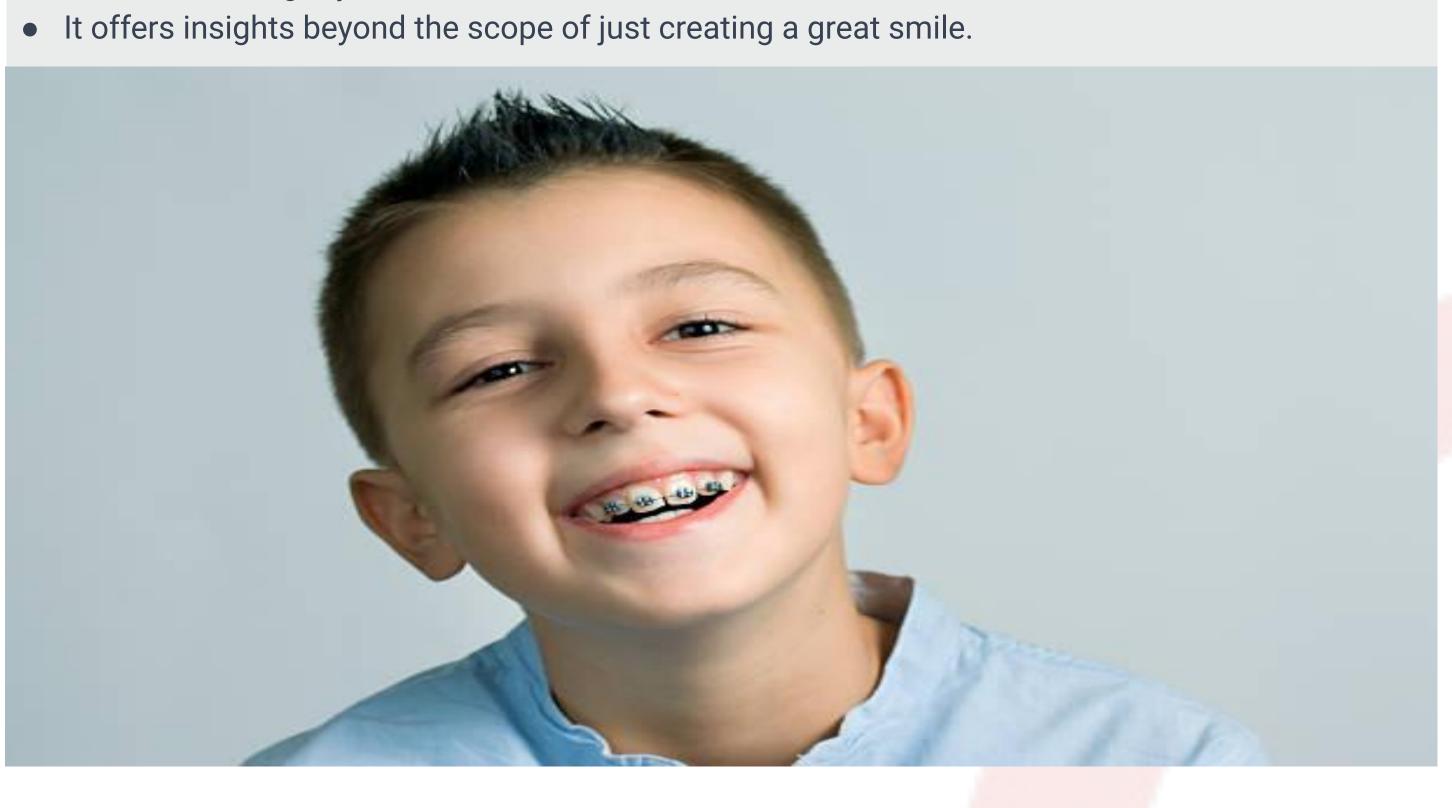


## Introduction

- 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<br>Articles         | Review Article   |
| Article Criteria | Orthodontic Patients and<br>Quality of Life | Articles not rel<br>orthodontic par<br>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

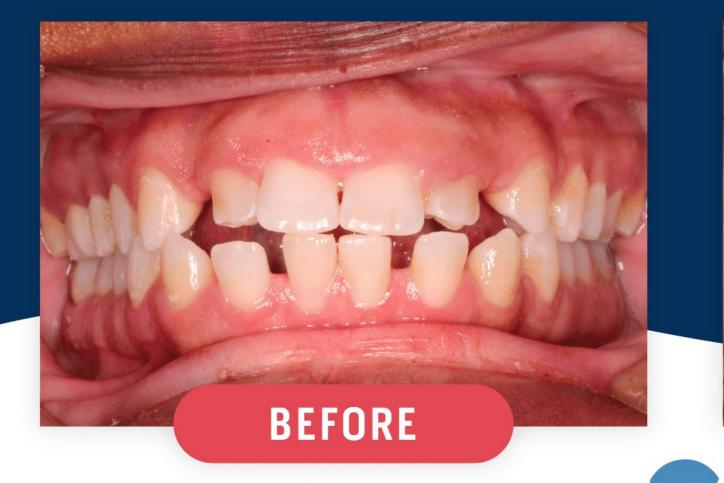
# Results

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