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Smile Solutions: Choosing Your Perfect Fits

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OKU Sutro Excellence Day Project Cover Sheet

Project Title

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Project Category

Enter your abstract text here (max 300 words)

Smile solutions: Choosing your perfect fits

Jasmine, Kamaljot Rattu, Karam

Under the Supervision of Dr.Praveena Ganesh

Background and Context

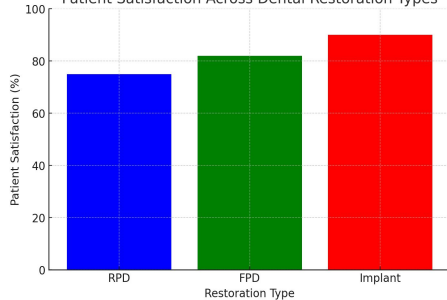
Context of the Study: Comprehensive analysis of three predominant dental restoration methods: removable dentures, fixed bridges, and dental implants. Focus on the advantages and disadvantages of all three Aim to elucidate efficacy, cost-effectiveness, and patient satisfaction associated with each treatment option.

Objective

To assess the effectiveness and student reception of a novel educational methodology in dental restoration, comparing Removable Partial Dentures (RPD), Fixed Partial Dentures (FPD), and Dental Implants.

- Use patient surveys, clinical data, and literature reviews to confirm the analysis.
- Provide guidance to dental practitioners for informed decision-making and personalized patient care.
- Stress the importance of ongoing innovation in dental prosthetics to improve quality of life for those with tooth loss.

Patient Satisfaction Across Dental Restoration Types



Scenario and Research

SCENARIO 1-Removable Denture:

Patient Profile: 65-year-old retired teacher with extensive tooth loss due to age and periodontal disease, seeking affordability and non-invasiveness.

Scenario: Patient prioritizes affordability and non-surgical intervention, values ease of maintenance and adjustability.

Suitability: Removable dentures ideal due to cost-effectiveness, non-invasiveness, providing functional and aesthetic solution without surgery.

SCENARIO 2- Fixed Partial Denture:

Patient Profile: A 45-year-old professional with one missing tooth between two healthy teeth, seeking durability and aesthetics.

Scenario: Patient prioritizes longevity and appearance, with stable oral health and a desire for a seamless blend with natural teeth.

Suitability: Fixed bridge recommended for its durability, stability, and cosmetic appeal. Utilizes adjacent healthy teeth as anchors for a long-lasting, natural-looking replacement.




SCENARIO 3-Dental Implant:

Patient Profile: 50-year-old avid traveler with single missing tooth, excellent bone density, seeking long-term stability.

Scenario: Patient desires worry-free restoration for eating, speaking, and traveling, willing to undergo surgical procedure.

Suitability: Dental implants most suitable for durability, stability, and natural function, anchoring directly into jawbone for permanent solution mimicking natural teeth.

Why choosing one over other

	RPD 	FPD 	Implant 
PROS	<p>Cost-effective: Removable prostheses are more affordable than fixed alternatives like bridges and implants.</p> <p>Non-invasive: They don't require surgical procedures, suitable for patients avoiding surgery.</p> <p>Repairability: Easily repairable or adjusted if needed, prolonging their lifespan.</p> <p>Adjustability: Accommodates changes in oral condition, such as gum recession, providing comfort.</p> <p>-Easy maintenance: Removable, facilitating oral hygiene for some patients.</p>	<p>Cosmetic: Enhances appearance, contributing to a pleasing smile.</p> <p>Cost-efficient: Offers economical solution for tooth replacement.</p> <p>Fixed in place: Not removable, providing stability and reliability.</p> <p>Unobtrusive: Replaces only missing teeth, blending seamlessly with the mouth's natural structure.</p> <p>Harmonious feel: Feels natural and comfortable in the mouth.</p> <p>Highly functional: Facilitates normal eating and speaking, resembling original teeth</p>	<p>Permanent Solution: Dental implants offer a long-term solution for tooth replacement.</p> <p>Stability and Functionality: Implants mimic natural teeth, providing stability for chewing and speaking.</p> <p>Aesthetic Appeal: Implants look and feel like natural teeth, enhancing the smile's appearance.</p> <p>Preservation of Bone: Implants stimulate jawbone, preventing bone loss that can occur with missing teeth.</p> <p>Durability: With proper care, implants can last a lifetime</p>
CONS	<p>Stability: May lack stability and chewing efficiency compared to fixed prostheses (Full dent vs Partial).</p> <p>Aesthetics: Some find removable prostheses less aesthetically pleasing due to bulkiness.</p> <p>Speech Impairment: New users may experience speech difficulties initially, which may improve over time.</p> <p>Removability: Need to remove for cleaning can be inconvenient for some.</p> <p>Potential Discomfort: May cause gum irritation and discomfort</p>	<p>Preparation required: Teeth need to be prepared for crowns to support the bridge -Cleaning difficulty: Pontic area can be challenging to clean properly.</p> <p>Replacement risk: If one abutment tooth is damaged, the entire bridge may need replacement.</p>	<p>Invasive Procedure: Implant placement involves surgery and requires healing time.</p> <p>Cost: Dental implants can be more expensive than other tooth replacement options.</p> <p>Time-Consuming: The process of getting implants can take several months from start to finish.</p> <p>Risk of Complications: Potential risks include infection, nerve damage, and implant failure.</p> <p>Requirement of Healthy Bone: Sufficient bone density is necessary for successful implant placement.</p>

Conclusion

This study presents a comprehensive analysis of three principal dental restoration methods: removable dentures, fixed bridges, and dental implants. It assesses their efficacy, cost-effectiveness, and patient satisfaction by integrating data from patient surveys, clinical results, and extensive literature reviews. This research informs dental practitioners about the best treatment options tailored to the functional and aesthetic needs of patients. Emphasizing personalized patient care and continuous innovation, the study highlights the importance of improving quality of life for individuals with tooth loss through advanced dental prosthetics.

References

