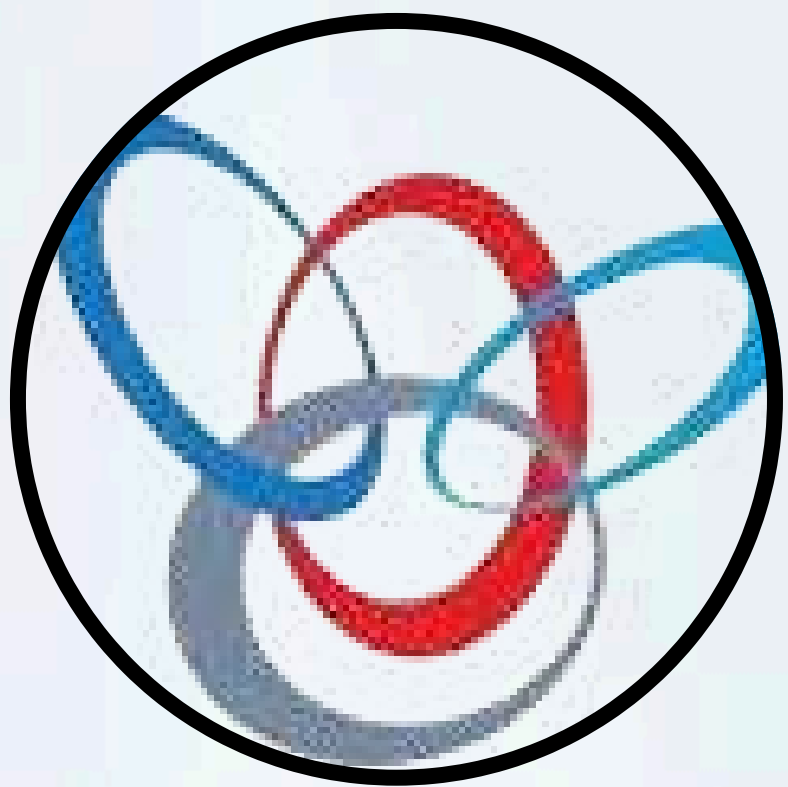


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Autotransplantation vs. Dental Implants in Anterior Tooth Replacement: Evaluating Long-Term Esthetic and Survival Outcomes

This paper compares autotransplanted teeth and dental implants in the aesthetic zone, addressing the research question of which method provides more favorable long-term outcomes based on survival, success, esthetics, and clinical applicability. The background for this comparison lies in the increasing demand for predictable anterior tooth replacement options that balance biological compatibility with esthetic and functional stability. The purpose of the study is to evaluate how autotransplantation performs relative to implant-supported restorations and to determine the situations in which each method is most appropriate. The methodology involves a literature-based analysis synthesizing data from multiple scientific studies, focusing specifically on long-term survival rates, procedural success, esthetic performance, and patient suitability. The results show that autotransplantation demonstrates a higher survival rate (91.7%) compared with implants (85%), while implants achieve a higher procedural success rate (97.8% vs. 84.6%) and better esthetic predictability (89.8% vs. 81.7%). These findings suggest that implants provide more stable esthetic outcomes, whereas autotransplantation benefits from biological integration and is particularly advantageous in younger patients or cases where implant placement is contraindicated. The conclusion drawn from the reviewed literature is that both methods are viable in the aesthetic zone; however, autotransplantation stands out as a biologically conservative and highly effective alternative when natural tissue preservation and long-term soft-tissue stability are prioritized.

Keywords: Autotransplantation, Dental Implants, Aesthetic Zone, Tooth Replacement, Survival Rate, Esthetics

Biography

Elza Lāce is a General Dentist based in Riga, Latvia. She graduated from the Rīga Stradiņš University (RSU) Faculty of Dentistry. In her daily practice at JK Dent clinic, Elza provides comprehensive restorative dental care for both children and adults. Her clinical focus is on therapeutic dentistry, encompassing diagnostics, treatment planning, and effective execution of general procedures.