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Accuracy of Repaired Maxillary Dentures with Different Repairing Techniques: *In vitro* comparative study

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Statement of problem: Complete dentures are a common line of treatment for edentulous patients. Many patients suffer from dentures fracture and changes that occur after repairing of the denture, different material and fracture edge profiles have been used for denture repair and to enhance denture accuracy after repair. **Aim:** This study aimed to compare the accuracy of two different processed maxillary complete dentures before and after repair with using two different techniques. **Material and Methods:** 20 acrylic maxillary complete denture are constructed using long cycle processing (10 denture) and microwave processing technique (10 dentures), dentures were sectioned at the mid-line and repaired using (auto polymerized acrylic resin and fiberglass mesh reinforced for acrylic repair improvement), denture were scanned and saved as STL file, superimposed and measured for adaptation, accuracy was measured, data were collected tabulated and statistically analyzed using paired T-test **Results:** showed no significant differences using glass fiber reinforced mesh or using only auto polymerized acrylic resin for repair of fractured denture with different processing technique. **Conclusion:** within the limitation of this study, changing the technique of repair or the processing technique of denture base doesn't affect the accuracy of denture after repair.

Recent Publications

1. Sara Mohamed (2021) Evaluation of bond strength between nanohybrid composite teeth and two different denture base materials (comparison study) E.D.J. Vol. 67, No. 2.
2. Sara Mohamed, Kawkb Eltamimi (2021) Effect of different beverages on colour stability of different denture base materials (a comparative spectrometric study) E.D.J. Vol. 67, No. 2.
3. H Abd ElHameed, S Mohamed (2021) Comparative laboratory evaluation of dimensional accuracy for 3D-printed complete maxillary denture. E.D.J. Vol. 67, No. 1.

Biography

Sara Zaky Mohamed, young researcher and junior lecturer at Suez Canal University, Egypt, and Luminous technical college, Jordan. She finished her master's degree in 2013 and PHD in 2018 both in removable prosthodontics. She has been a visiting lecturer of removable prosthodontics at the faculty of dentistry at Sinai university from 2020-2022. She has carried out several research including complete dentures and overdentures and related materials in the past two years and is willing to continue researching in this field.

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