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Thesis Title	Comparing Maximum Stresses and Displacements in A Lower Complete Denture with Different Occlusal Plane Levels and Schemes . A Three Dimensional Finite Element Stress Analysis Study		
Year	2003		
Abstract	<p>Purpose of study: A three dimensional stress analysis method was used to assessed the stress distribution and displacement in a lower complete denture Materials and</p> <p>Methods: The sample consists of three groups , First group :three set of lower complete denture constructed using cast poured from ready made teaching mould to study the effects of balanced ,lingualized and monoplane occlusal schemes on the stress distribution when the occlusal plane leveled with upper, middle and lower third of the retro molar pad .the load used in this study was 58.8 Newton directed axially downward applied on specific sites differ with different occlusal schemes. Results: Both balanced and lingualized occlusal schemes exert minimal stresses and rotational movements around ridge crest when leveled with middle third of retro molar pad while occlusal plane leveled with the lower third of retro molar pad shows more incidence for rotational movements Conclusion: Stability improved in monoplane occlusal plane over the three occlusal plane levels the posterior of teeth should be adjusted over the ridge crest so that the lateral stresses reduced and increased denture stability. KEYWORD: Occlusal plane ,lower denture and finite element stress analysis.</p>		