



Evaluation of Different Preparation of Artificial Teeth and Acrylate Prosthetic Base

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Introduction:

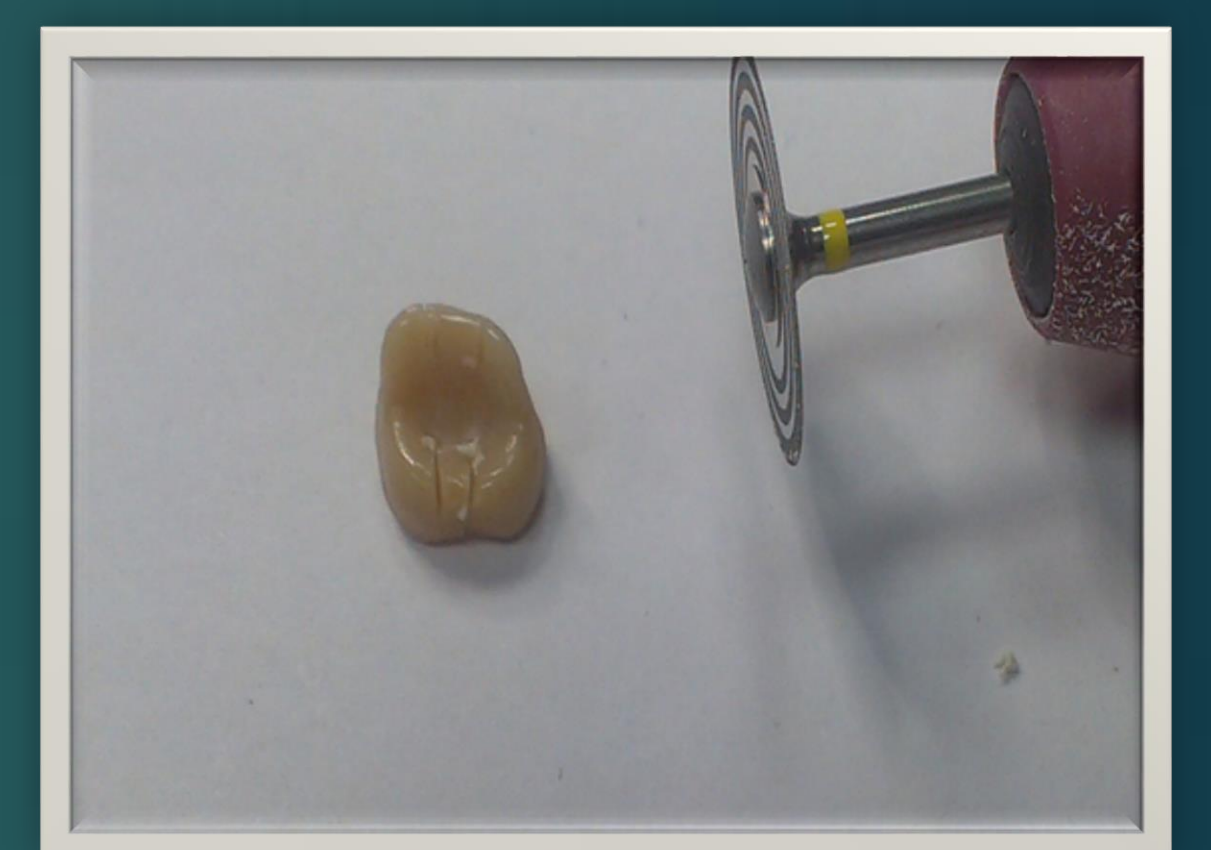
Preparation of the basal area in acrylate artificial teeth is a very important factor in the quality of a dental prosthesis. It refers to the link between artificial teeth and acrylic denture base made of heat polymerized acrylic.

Material and method:

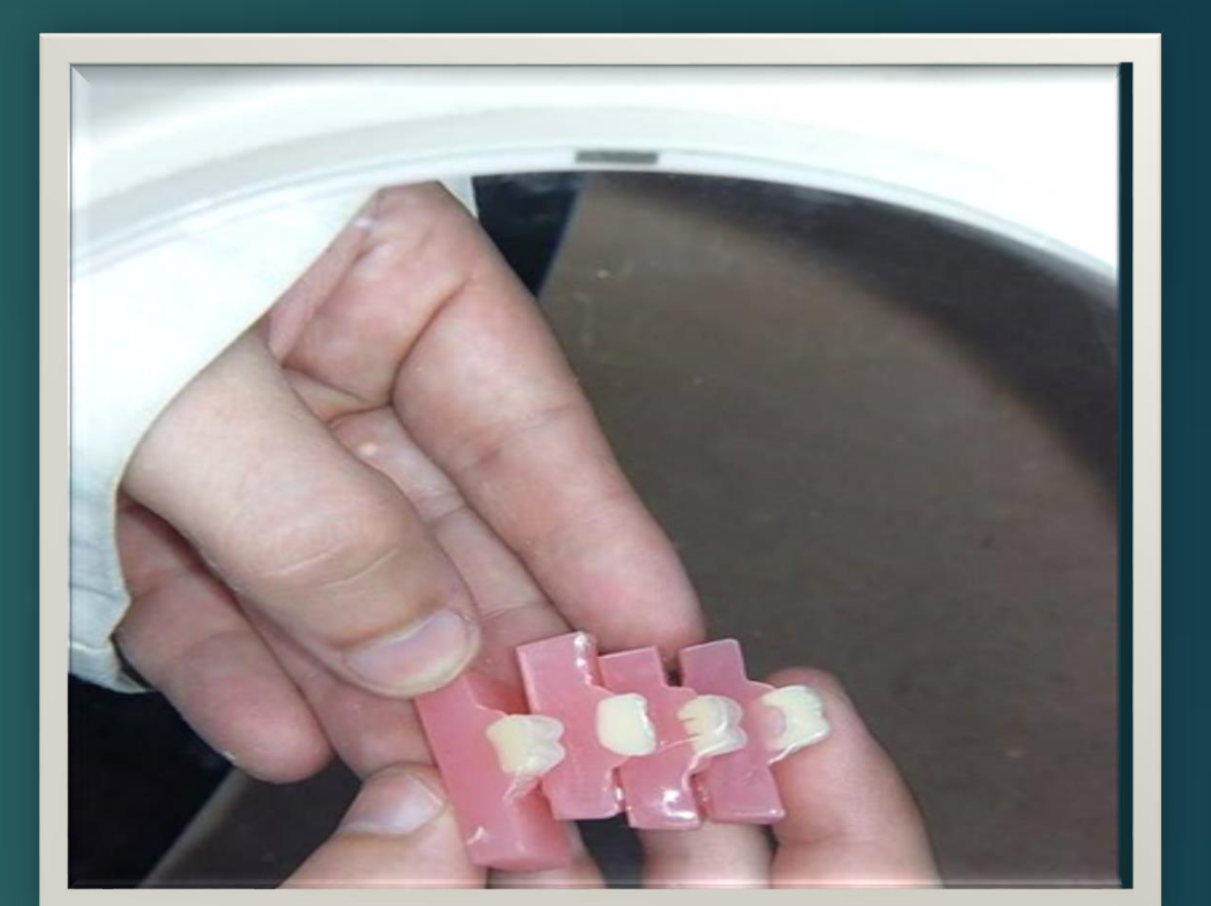
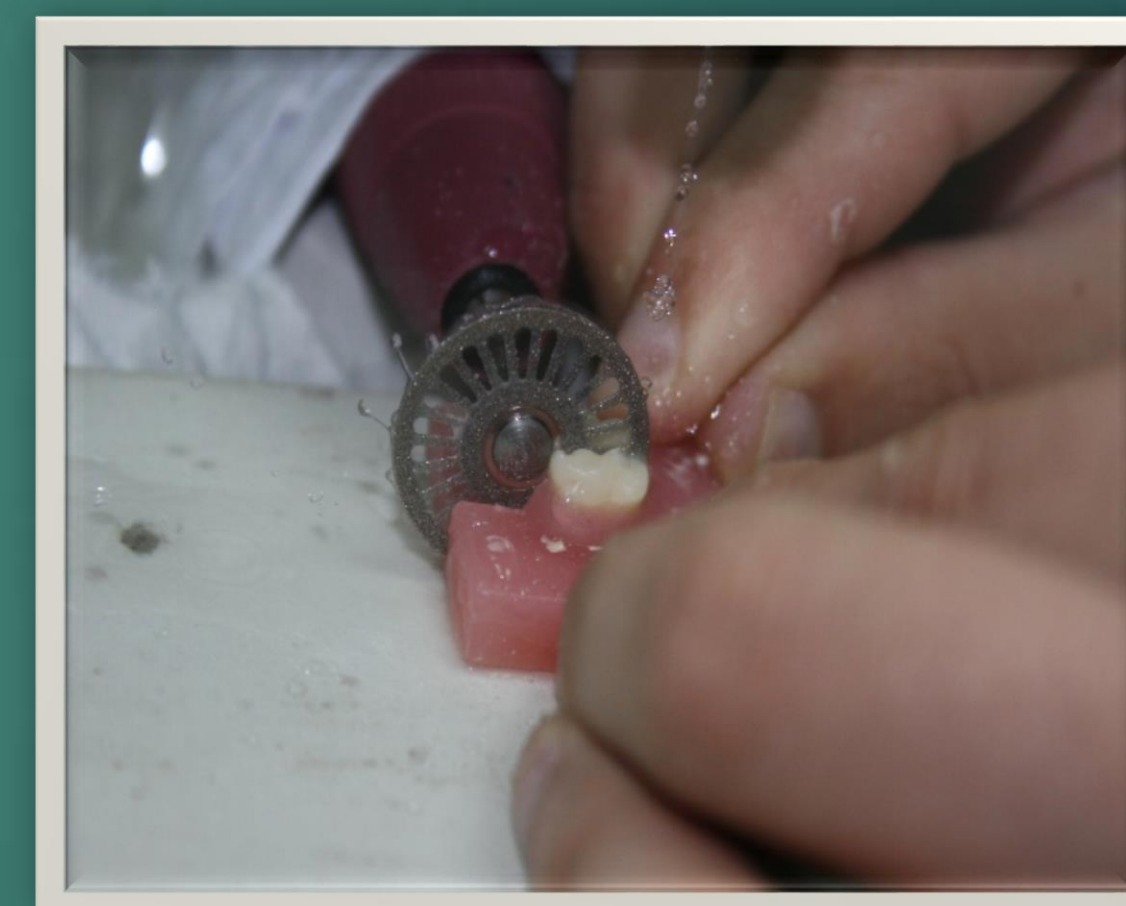
For the realization of the set targets were tested 10 acrylic models. The theme was designed to show the justification for the mechanical preparation of the basal area in acrylate artificial teeth, then using a light microscope to measure the size of the crack between acrylic artificial teeth and acrylic denture base. The paper described two techniques, without preparation and separation technique, which justify the best technique of preparation.

Aim:

The most common reason for failure of mobile prosthetic works is falling artificial teeth acrylate prosthetic base. The failure is due to the manner of connection between the base and artificial teeth. As the main factor which affects the level of retention is mechanical preparation of the basal area in acrylate teeth.

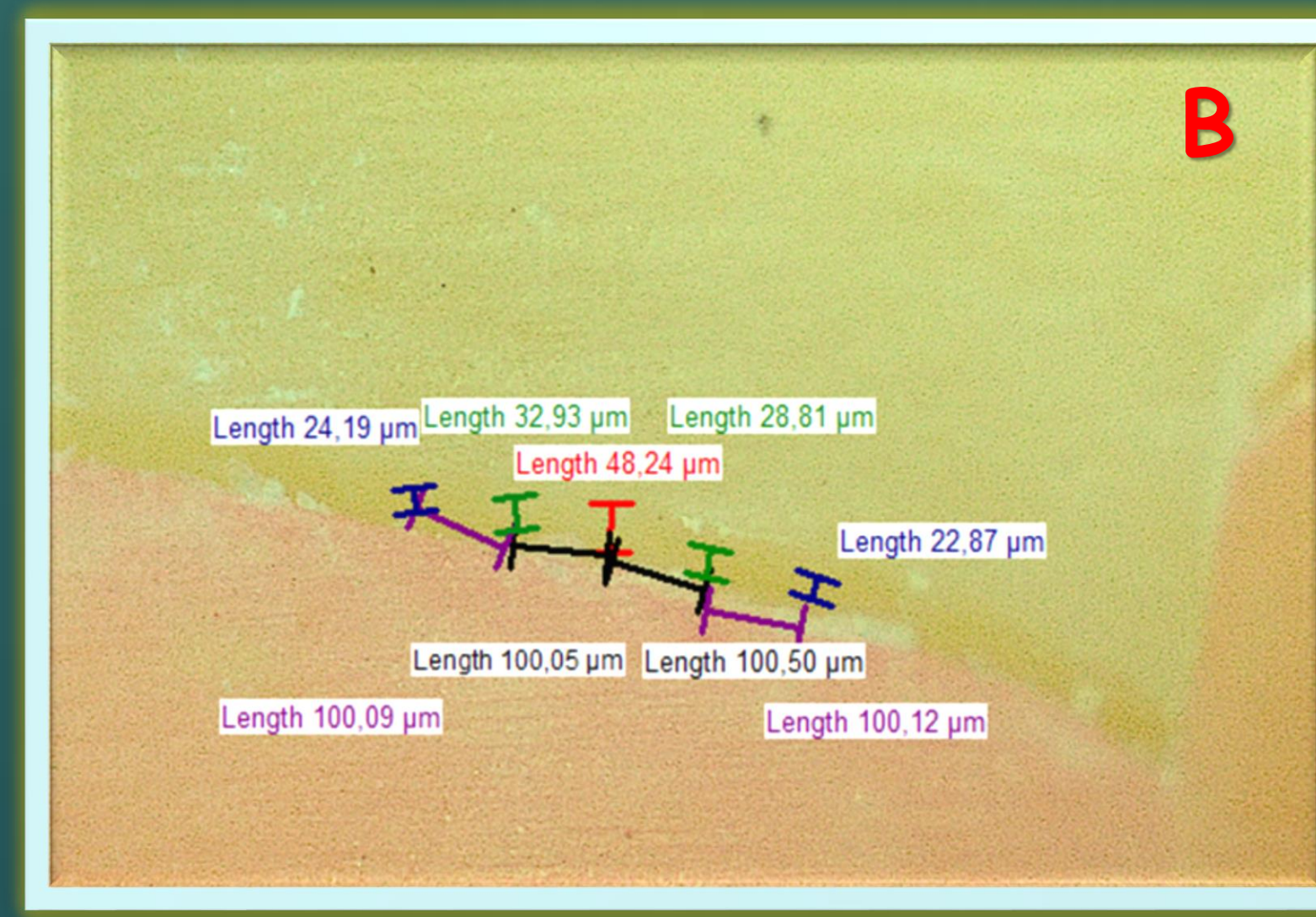
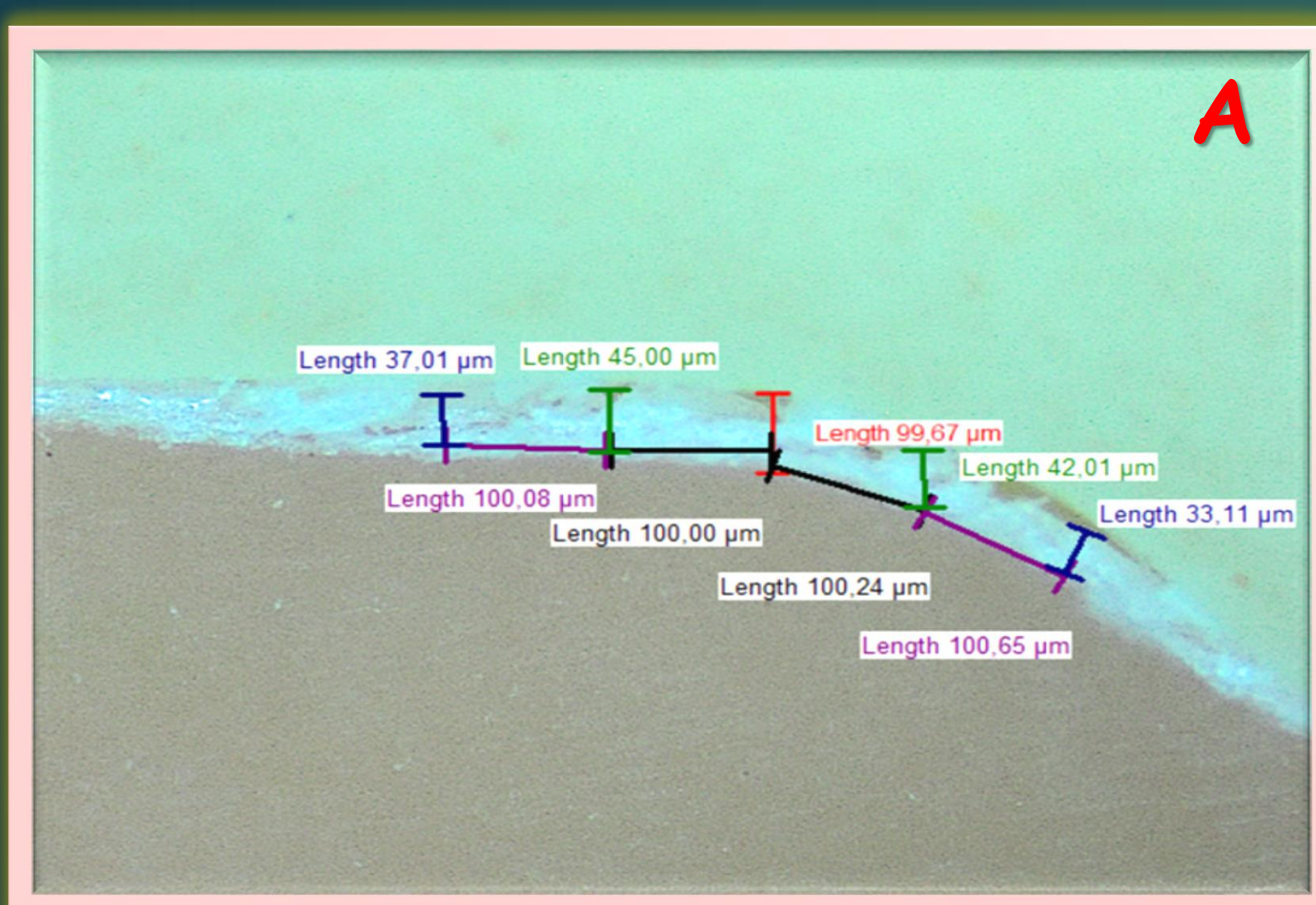


mechanical preparation of the basal area



Result:

The results can be analyzed that the maximum distance to the interspace occurs models from the A group. As for the models of group B interspace between artificial teeth and acrylic base with smaller values as opposed to models of A group.



Point measure (µm)	model A		model B	
	average	SD	average	SD
point 1	30.24	6.17	21.88	3.33
point 2	40.87	7.42	28.73	3.35
point 3	97.12	2.22	50.48	3.61
point 4	36.73	7.59	26.52	2.79
point 5	27.09	5.25	20.68	2.19

Conclusion:

Mechanical preparation of artificial teeth significantly affect the degree of physical connection and also provides greater contact surface with acrylate prosthetic base.