COMPUTE TOMOGRAPHY OF DENTAL ENAMEL TREATED WITH DIFFERENT POWER SETTINGS OF LASER ABLATION

Stefka Kazakova, Nikolay Stoimenov, Julia Kamenova

Aim: This study was performed to assess the length of fissures after laser ablation with different power settings.

Material and methods: Twenty four teeth were divided in four groups and were treated with different power settings.

1. 1 W; 30Hz; 10% water; 15% air.
2. 1.25W; 10 Hz; 30% water; 30% air.
3. 1.5W; 20Hz; 30% water; 60% air.
4. 2.5W; 20Hz; 20% water; 60% air.

Results: The depth between of 7 and 20 mm was assessed.

Conclusion: The depth is enough for penetration of resin tags for bonding with composite cement.