

# Pengaruh aplikasi ekstrak biji anggur terhadap biodegradasi kekuatan ikat geser resin komposit dengan dentin = Effect of grape seed extract against biodegradation of composite resin dentin shear bond strength

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## Abstrak

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Latar belakang: Ketahanan ikatan antara resin komposit dengan dentin merupakan penentu keberhasilan restorasi resin komposit.

Tujuan: Menganalisis EBA terhadap kekuatan ikat resin-dentin.

Metode: 48 sampel dentin dibagi menjadi 6 kelompok. Kemudian seluruh kelompok diukur kekuatan ikat gesernya menggunakan UTM.

Data dianalisa statistik dengan uji hipotesis Kruskal Wallis yang dilanjutkan dengan uji Mann Whitney. Hasil: Median tertinggi kelompok 3, sedangkan median terendah kelompok 5. Kesimpulan:

Ekstrak biji anggur yang diaplikasikan sebelum etsa dapat meningkatkan kekuatan ikat gesek namun tidak dapat menghambat

biodegradasinya.  
**ABSTRACT**  
Background: Resilience of resin-dentin bonding known as one of

success composite resin restoration determinants. Aim: To analyze the effect of grape seed extract on resin-dentin shear bond strength.

Methods: 48 dentin sample were divided into 6 groups. Shear bond strengths measured using UTM. Statistical analysis was done by Kruskal Wallis test and Mann Whitney test. Results: The highest median value was highest on group 3, and the lowest was group 5.

Conclusion: Grape seed extract can improve the shear bond strength but not have effect on reducing the biodegradation.

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