

# Pengaruh larutan teh hijau camellia sinensis terhadap perubahan warna resin komposit berbasis silorane dan methacrylate = Effect of green tea solution camellia sinensis on color change of silorane and methacrylate based composite resins / Kurniasari Nur Rahman

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## Abstrak

### **ABSTRAK**

Tujuan: Mengetahui pengaruh larutan teh hijau terhadap perbedaan perubahan warna resin komposit berbasis silorane dan methacrylate. Metode: Tiga puluh resin komposit berbasis silorane dan methacrylate 6x2mm dibagi menjadi 6 kelompok lalu direndam larutan teh hijau dengan konsentrasi 1%, 2%, dan 3%. Pengukuran warna dilakukan berdasarkan teori CIE\* Lab dan dianalisis menggunakan Uji one-way anova & Uji t tidak berpasangan. Hasil: Terdapat perbedaan bermakna antara nilai  $\Delta E^*$  kedua jenis resin komposit setelah perendaman ( $p < 0,05$ ). Nilai  $\Delta E^*$  resin komposit berbasis silorane lebih tinggi. Kesimpulan: Perubahan warna tertinggi terdapat pada resin komposit berbasis silorane yang direndam larutan teh hijau 3% ( $\Delta E = 3,85$ ).

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### **ABSTRACT**

Objective: To investigate the effect of green tea solution on color change of silorane and methacrylate based composite resins. Methods: Thirty silorane and methacrylate based composite resins 6x2mm divided into 6 groups then immersed in green tea solution with 1%, 2%, and 3% concentration. Color measurements performed based on CIE Lab theory then analyzed using one-way ANOVA and independent t test. Results: Significant difference found between  $\Delta E^*$  value in two type of resin composites after immersion ( $p < 0.05$ ).  $\Delta E^*$  was higher in silorane based composite resin. Conclusion: The highest color change occurs in silorane based composite resin which immersed in 3% green tea solution ( $\Delta E = 3,85$ ).