

Pengaruh warna komposit resin nano aktivasi sinar terhadap temperatur permukaan dasar = The effect of light cured nanofilled resin composite shades on the undersurface temperature

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Abstrak

Penelitian ini bertujuan menganalisis pengaruh warna komposit resin nano aktivasi sinar terhadap temperatur di permukaan dasar. Spesimen berupa komposit resin warna terang (B1), sedang (A3), dan gelap (C3) dari Filtek Z350XT (3MESPE, USA). Uji temperatur dilakukan di permukaan dasar spesimen pada saat dilakukan penyinaran menggunakan light curing unit. Terdapat perbedaan temperatur permukaan dasar antara komposit resin warna B1 dan A3 ($p<0,05$), warna A3 dan C3 ($p<0,05$), serta warna B1 dan C3 ($p<0,001$). Disimpulkan, warna komposit resin mempengaruhi temperatur permukaan dasar.

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The objective of the present study was to analyse the effect of light-cured nanofilled resin composite shades on their undersurface temperature. Specimens are lighter shade (B1), darker shade (C3), and middle shade (A3) of light-cured nanofilled resin composites (Filtek Z350XT, 3M-ESPE, USA). Temperature measurement was conducted on the undersurface of specimens when cured using a light curing unit. It was shown that there are temperature differences between the composites of B1 and A3 ($p<0,05$), A3 and C3 ($p<0,05$), as well as B1 and C3 ($p<0,001$). In conclusion, shade of light-cured nanofilled resin composites influenced their undersurface temperature.