

Colour stability of provisional crown and bridge restoration materials.

Lang R, Rosentritt M, Leibrock A, Behr M, Handel G.

Department of Prosthetic Dentistry, University Clinics, Regensburg, Germany.

OBJECTIVE: In an in vitro study to determine the colour stability of provisional restoration materials, the PMMA synthetics Trimm and Cronsin and the bis-acrylic composites Protemp Garant, Protemp Garant NF, Protemp II and Provipont DC were investigated. **MATERIALS AND METHODS:** The colour changes of the cylindrical untreated samples were measured in comparison with samples after 24 and 72 hours of artificial ageing in a Suntest CPS+ UV ageing device using the Minolta CM 3500d spectrophotometer according to the CIE-L*a*b* system. **RESULTS:** Trimm (light), Cronsin (brown, yellow and universal), Provipont DC (yellow) and Protemp Garant NF (extra light) displayed the greatest discoloration with values $\geq 4-21$ delta E, where discoloration toward yellow could be discerned. The remaining materials showed lower luminance reflectance values of $\leq 1-4$ delta E, and therefore greater colour stability. **CONCLUSIONS:** Because of their colour stability the materials Cronsin (grey), Protemp Garant (yellow), Protemp II (light), Protemp Garant NF (yellow, light and extra light) could also be used as long-term interim prosthetics.

PMID: 9854343 [PubMed - indexed for MEDLINE]