

The effect of *Chamaecyparis formosensis* extract (CFE) doping in dental root canal sealing materials on the physical properties.

**Yi-Ting Wang, Dan-Jae Lin, Tzong-Ming Shieh, Shui-Sang Hsue**

*Chamaecyparis formosensis* extract (CFE) have been studied and identified as having antibacterial and anti-tumor activities. The purpose of this study is to evaluate the effect of CFE doping (0.2 wt%) in dental root canal sealing materials on the physical properties. Canals (ZOE-based), AH Plus (epoxy resin-based), and Apexit Plus (calcium hydroxide-based) were selected for this study. The flow, setting time, and film thickness tests were conducted in accordance with ISO 6876 (n = 3). The results indicated that these CFE doping sealers slightly inhibit their flow ability; the 18mm flow of AH plus (with CFE) were below the ISO acceptance criteria (20mm). The setting time were not significantly affected by the CFE doping. The AH plus possess a highest film thickness among these three canal sealers. But the film thickness of these three canal sealers were all below the ISO acceptance criteria of 50 micron, either in the CFE groups.