

RADIOPACITY OF SELECTED TYPES OF COMPOSITE RESIN MATERIALS - A COMPUTERIZED METHOD

Mira A.I.*, Abu-Alenain D. A.** and Saudi H. I.***

ABSTRACT

Radiopacity property is thought to be one of the essential requirements of composite resin restorative material for early detection and diagnosis of recurrent caries under these restorations.

The objective of this study was to compare radiopacities of recent composite resin formulations and to study the effect of both filler percent and filler type on this property. A radiograph was taken for nine composite resin samples of different brands and one amalgam control sample. then scanned to form bitmap image which was analyzed using gray scale level, and data were recorded.

Results showed that there were different degrees of radiopacity among tested brands. The radiopacity was influenced by the filler type rather than the filler percent. Therefore, it was concluded that filler type has the major effect on radiopacity of composite resin materials.