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ONLINE ISSN : 1881-1361

PRINT ISSN : 0287-4547

Dental Materials Journal

Vol. 27 (2008) , No. 3 p.455-465

[\[Image PDF \(1491K\)\]](#) [\[References\]](#)**Evaluation of Flowable Resin Composite Surfaces Eroded by Acidic and Alcoholic Drinks**[Linlin HAN](#)¹⁾, [Akira OKAMOTO](#)¹⁾, [Masayoshi FUKUSHIMA](#)¹⁾ and [Takashi OKIJI](#)¹⁾

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(Received October 12, 2007)

(Accepted January 7, 2008)

Abstract:

The purpose of this study was to evaluate the morphological changes of the surfaces of flowable resins eroded by orange juice and alcohol drinks. The tested products were Beautiful Flow BF02 and BF10, Clearfil Majesty LV, FiltekTM Supreme XT Flowable Restorative, Unifil LoFlo Plus and FiltekTM Supreme. Filler percentages of flowable resins were calculated after the latter were incinerated at 750°C. Specimens were shaped into a disk form with a diameter of 10 mm and a thickness of 1 mm. Morphological changes were evaluated for the following types of flowable resin surfaces: polished surface, surfaces eroded by 100% orange juice, wine and whisky. Filler percentages of the tested flowable resins ranged between 42 and 78%. Surface degradation was observed for the specimens immersed in acidic and alcoholic drinks, and it was thought that the lower the filler percentage, the greater was the surface degradation. Decomposition of the matrix resin and fallout of the fillers were observed in flowable resins that eroded with acidic and alcoholic drinks.

Key words:[Flowable resin composite](#), [Surface degradation](#), [Alcohol drink](#)



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To cite this article:

Linlin HAN, Akira OKAMOTO, Masayoshi FUKUSHIMA and Takashi OKIJI. Evaluation of Flowable Resin Composite Surfaces Eroded by Acidic and Alcoholic Drinks . Dent. Mater. J. 2008; 27: 455-465 .

doi:10.4012/dmj.27.455

JOI JST.JSTAGE/dmj/27.455

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