

Accepted Manuscript

Title: Replacing amalgam with a high-viscosity glass-ionomer in restoring primary teeth: A cost-effectiveness study in Brasilia, Brazil

Authors: A. Goldman, J.E. Frencken, R.G. De Amorim, S.C. Leal



PII: S0300-5712(17)30316-0
DOI: <https://doi.org/10.1016/j.jdent.2017.12.012>
Reference: JJOD 2885

To appear in: *Journal of Dentistry*

Received date: 27-1-2017
Revised date: 20-12-2017
Accepted date: 27-12-2017

Please cite this article as: Goldman A, Frencken JE, De Amorim RG, Leal S.C. Replacing amalgam with a high-viscosity glass-ionomer in restoring primary teeth: A cost-effectiveness study in Brasilia, Brazil. *Journal of Dentistry* <https://doi.org/10.1016/j.jdent.2017.12.012>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Replacing amalgam with a high-viscosity glass-ionomer in restoring primary teeth: A cost-effectiveness study in Brasilia, Brazil

Goldman A^{1*}, Frencken JE¹, De Amorim RG¹, Leal SC²

¹ Department of Oral Function and Prosthetic Dentistry, College of Dental Sciences, Radboud University Medical Center, Nijmegen, The Netherlands

² Department of Dentistry, Faculty of Health Sciences, University of Brasília, Brasília, Brazil

*Corresponding author: Department of Oral Function and Prosthetic Dentistry, College of Dental Sciences, Radboud University Medical Center, P.O. Box 9101, 6500 HB Nijmegen, The Netherlands

ABSTRACT

Objectives: When planning primary oral health care services the cost implications of adopting new intervention practices are important, especially in resource-strapped countries. Although on a trajectory to be phased-out, amalgam remains the standard of care in many countries. **Methods:** Adopting a government perspective, this study compared the costs of performing amalgam and ART/high-viscosity glass-ionomer cement (HVGIC) restorations and the consequences of failed restorations over 3 years in suburban Brasilia, Brazil. Cost data were collected prospectively; cost estimates were developed for the study sample and a projection of 1,000 single- and 1,000 multiple-surface restorations per group. Probabilistic sensitivity analysis was conducted in TreeAge Pro. **Results:** Results were mixed. For single-surface restorations, ART/HVGIC will cost US\$51 per failure prevented, while for multiple-surface restorations, ART/HVGIC was cost-effective with a savings of US\$11 compared to amalgam. Probabilistic

Download English Version:

<https://daneshyari.com/en/article/8699309>

Download Persian Version:

<https://daneshyari.com/article/8699309>

[Daneshyari.com](https://daneshyari.com)