

Temporary Restorations: An Online Study Guide

Abstract

The Editorial Board of the *Journal of Endodontics* has developed a literature-based study guide of topical areas related to endodontics. This study guide is intended to give the reader a focused review of the essential endodontic literature and does not cite all possible articles related to each topic. Although citing all articles would be comprehensive, it would defeat the idea of a study guide. This section will cover endodontic temporary restorations. (*J Endod* 2008;34:e131–e134)

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Introduction

The delivery of high-quality clinical care requires a thorough understanding of the endodontic literature. The Editorial Board of the *Journal of Endodontics* (JOE) has developed this online study guide for endodontists and fellow clinicians interested in endodontics.

There are several potential applications for an online study guide. First, an online study guide permits clinicians to focus in on particular areas of endodontics where they can quickly review key papers devoted to one particular topic. For example, this particular study guide provides a summary of key papers in the area of temporary restorations.

Second, a study guide permits speakers to efficiently review background material in preparation for future courses, lectures, or continuing educational events. Third, an online study guide permits students to review key papers in preparation for future examinations or for development of residency seminars. And, fourth, an online study guide permits readers to quickly and efficiently access either the abstract or the entire paper cited in the tables (see Discussion for details).

Methods

One potential problem in developing an online study guide was to provide a summary of major papers that contributed to a given topic area. The inclusion of all possible papers on a given topic would lead to an unwieldy collection that failed to clearly identify key papers in the area. Of course, the exclusion of key papers is also problematic. To address this issue, the JOE Editorial Board developed the overall list of topics to be covered and then for each topic generated an initial tabulation of key historical and contemporary papers on that topic. This list was then sent to two outside reviewers who were both experienced educators and Diplomates of the American Board of Endodontics. These reviewers then recommended additions and deletions of papers to the proposed topic list.

In order to maintain currency, the JOE Editorial Board proposes to periodically update each topical study guide using the same peer-reviewed process as described above.

Results

The results of the study guide (1-22) provide an overview of selected literature on temporary restorations. This information is organized into [Table 1](#).

Discussion

The journey to clinical excellence requires not only outstanding clinical skills but also that special knowledge that accrues from a study of the endodontic literature. The purpose of the JOE online study guide is to serve as one source for efficiently reviewing key papers that are organized by topic area and presented with the advantages of online Internet technology.

Although JOE readers are undoubtedly familiar with many aspects of the Internet, there are special features available at JOE online that provide particular advantages in their application for a study guide. For example, if this particular study guide is downloaded as a pdf, it provides a useful but static listing of the cited articles. On the other hand, if the reader navigates to the table of contents page for the online study guide and then clicks on “Full Text” ([Fig. 1](#)), they will be taken to a HTML version of the study guide. This online version of the study guide has special capabilities including the fact that the references are hyperlinked. Thus, the reader can quickly obtain abstracts of nearly all cited papers and can review the entire paper of many of the cited papers with only a few clicks of their mouse ([Fig. 2](#)).

Online Study Guide

Thus, combining a study guide with online capabilities provides particular benefits for efficiently reviewing key papers in the endodontic literature.

We hope that this study guide will prove useful to you as one source

for developing a focused and special base of endodontic knowledge. As always, we are interested in your thoughts on this initiative and how JOE can better serve you, our readers. Feel free to e-mail us at: JEndodontics@UTHSCSA.edu.

TABLE 1. Temporary Restorations

Ref #	Title
1.	Wideman FH, Eames WB, Serene TP. The physical and biologic properties of Cavit. <i>J Am Dent Assoc</i> 1971;82:378-82.
2.	Krakow AA, deStoppelaar JD, Gron P. In vivo study of temporary filling materials used in endodontics in anterior teeth. <i>Oral Surg Oral Med Oral Pathol</i> 1977;43:615-20.
3.	Marosky JE, Patterson SS, Swartz M. Marginal leakage of temporary sealing materials used between endodontic appointments and assessed by calcium 45—an in vitro study. <i>J Endod</i> 1977;3:110-3.
4.	Webber RT, del Rio CE, Brady JM, Segall RO. Sealing quality of a temporary filling material. <i>Oral Surg Oral Med Oral Pathol</i> 1978;46:123-30.
5.	Todd MJ, Harrison JW. An evaluation of the immediate and early sealing properties of Cavit. <i>J Endod</i> 1979;5:362-7.
6.	Anderson RW, Powell BJ, Pashley DH. Microleakage of three temporary endodontic restorations. <i>J Endod</i> 1988;14:497-501.
7.	Turner JE, Anderson RW, Pashley DH, Pantera EA Jr. Microleakage of temporary endodontic restorations in teeth restored with amalgam. <i>J Endod</i> 1990;16:1-4.
8.	Rutledge RE, Montgomery S. Effect of intracanal medicaments on the sealing ability of TERM. <i>J Endod</i> 1990;16:260-4.
9.	Hagemeier MK, Cooley RL, Hicks JL. Microleakage of five temporary endodontic restorative materials. <i>J Esthet Dent</i> 1990;2:166-9.
10.	Melton D, Cobb S, Krell KV. A comparison of two temporary restorations: light-cured resin versus a self-polymerizing temporary restoration. <i>Oral Surg Oral Med Oral Pathol</i> 1990;70:221-5.
11.	Hansen SR, Montgomery S. Effect of restoration thickness on the sealing ability of TERM. <i>J Endod</i> 1993;19:448-52.
12.	Mayer T, Eickholz P. Microleakage of temporary restorations after thermocycling and mechanical loading. <i>J Endod</i> 1993;19:448-52.
13.	Beach CW, Calhoun JC, Bramwell JD, Hutter JW, Miller GA. Clinical evaluation of bacterial leakage of endodontic temporary filling materials. <i>J Endod</i> 1996;22:459-62.
14.	Pai SF, Yang SF, Sue LS, Chueh LH, Rivera EM. Microleakage between endodontic temporary restorative materials placed at different times. <i>J Endod</i> 1999;25:453-6.
15.	Deveaux E, Hildelbert P, Neut C, Romond C. Bacterial microleakage of Cavit, IRM, TERM, and Fermit: a 21-day in vitro study. <i>J Endod</i> 1999;25:653-9.
16.	Barthel CR, Strobach A, Briedigkeit H, Göbel UB, Roulet JF. Leakage in roots coronally sealed with different temporary fillings. <i>J Endod</i> 1999;25:731-4.
17.	Liberman R, Ben-Amar A, Frayberg E, Abramovitz I, Metzger Z. Effect of repeated vertical loads on microleakage of IRM and calcium sulfate-based temporary fillings. <i>J Endod</i> 2001;27:724-9.
18.	Newcomb BE, Clark SJ, Eleazer PD. Degradation of the sealing properties of a zinc oxide-calcium sulfate-based temporary filling material by entrapped cotton fibers. <i>J Endod</i> 2001;27:789-90.

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Ref #	Title
19.	Balto H. An assessment of microbial coronal leakage of temporary filling materials in endodontically treated teeth. J Endod 2002;28:762-4.
20.	Naoum HJ, Chandler, NP Temporization for endodontics. Int Endod J 2002;35:964-78.
21.	Zmener O, Banegas G, Pameijer CH. Coronal microleakage of three temporary restorative materials: an in vitro study. J Endod 2004;30:582-4.
22.	Lai YY, Pai L, Chen CP. Marginal leakage of different temporary restorations in standardized complex endodontic access preparations. J Endod 2007;33:875-8.

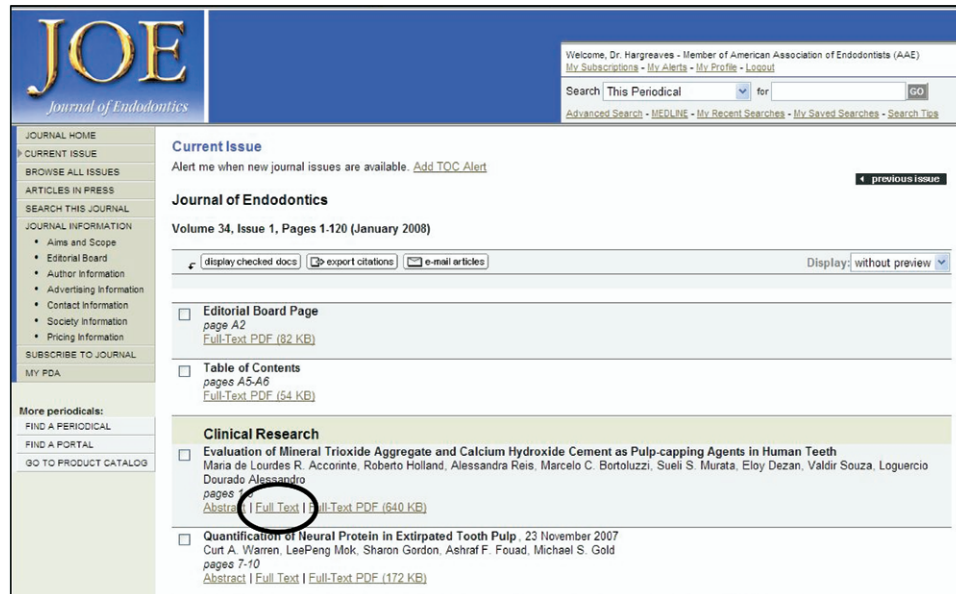


Figure 1. Navigation to HTML version.

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Figure 2. Hyperlink to References.

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