

Post Space Preparation: 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 focus on post space preparation. (*J Endod* 2008;34:e139–e142)

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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 post space restoration.

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 (1-18) provide an overview of selected literature on post space restoration. 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 an 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). 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. Post Space Preparation

Ref #	Title
1.	Neagley RL. The effect of dowel preparation on the apical seal of endodontically treated teeth. <i>Oral Surg Oral Med Oral Pathol</i> 1969;28:739–45.
2.	Dickey DJ, Harris GZ, Lemon RR, Luebke RG. Effect of post space preparation on apical seal using solvent techniques and Peeso reamers. <i>J Endod</i> 1982;8:351–4.
3.	Madison S, Zakariasen KL. Linear and volumetric analysis of apical leakage in teeth prepared for posts. <i>J Endod</i> 1984;10:422–7.
4.	Mattison GD, Delivanis PD, Thacker RW Jr, Hassell KJ. Effect of post preparation on the apical seal. <i>J Prosthet Dent</i> 1984;51:785–9.
5.	Suchina JA, Ludington JR. Dowel space preparation and the apical seal. <i>J Endod</i> 1985;11:11–7.
6.	Saunders EM, Saunders WP. The heat generated on the external root surface during post space preparation. <i>Int Endod J</i> 1989;22:169–73.
7.	DeCleen MJH. The relationship between the root canal filling and post space preparation. <i>Int Endod J</i> 1993;26:53–8.
8.	Ricci ER, Kessler JR. Apical seal of teeth obturated by the laterally condensed gutta-percha, the thermafil plastic and thermafil metal obturator techniques after post space preparation. <i>J Endod</i> 1994;20:123–6.
9.	Weller RN, Kimbrough WF, Anderson RW. Root surface temperatures produced during post space preparation. <i>J Endod</i> 1996;22:304–7.
10.	Karapanou W, Vera J, Cabrera P, White RR, Goldman M. Effect of immediate and delayed post preparation on apical dye leakage using two different sealers. <i>J Endod</i> 1996;22:583–5.
11.	Dean JP, Jeansonne BG, Sarkar N. In vitro evaluation of a carbon fiber post. <i>J Endod</i> 1998;24:807–10.
12.	Fan B, Wu MK, Wesselink PR. Coronal leakage along apical root fillings after immediate and delayed post space preparation. <i>Endod Dent Traumatol</i> 1999;15:124–6.
13.	Abramovitz I, Lev R, Fuss Z, Metzger Z. The unpredictability of seal after post space preparation: a fluid transport study. <i>J Endod</i> 2001;27:292–5.
14.	Kuttler S, McLean A, Dorn S, Fischzang A. The impact of post space preparation with Gates-Glidden drills on residual dentin thickness in distal roots of mandibular molars. <i>J Am Dent Assoc</i> 2004;135:903–9.
15.	Solano G, Hartwell G, Appelstein C. Comparison of apical leakage between immediate versus delayed post space preparation using AH Plus sealer. <i>J Endod</i> 2005;31:752–4.
16.	Mavec JC, McClanahan SB, Minah GE, Johnson JD, Blundell RE Jr. Effects of an intracanal glass ionomer barrier on coronal microleakage in teeth with post space. <i>J Endod</i> 2006;32:120–2.
17.	Katz A, Wasenstein-Kohn S, Tamse A, Zuckerman O. Residual dentin thickness in bifurcated maxillary premolars after root canal and dowel space preparation. <i>J Endod</i> 2006;32:202–5.
18.	Munoz HR, Saravia-Lemus GA, Florian WE, Lainfiesta JF. Microbial leakage of <i>Enterococcus faecalis</i> after post space preparation in teeth filled in vivo with RealSeal versus gutta-percha. <i>J Endod</i> 2007;33:673–5.

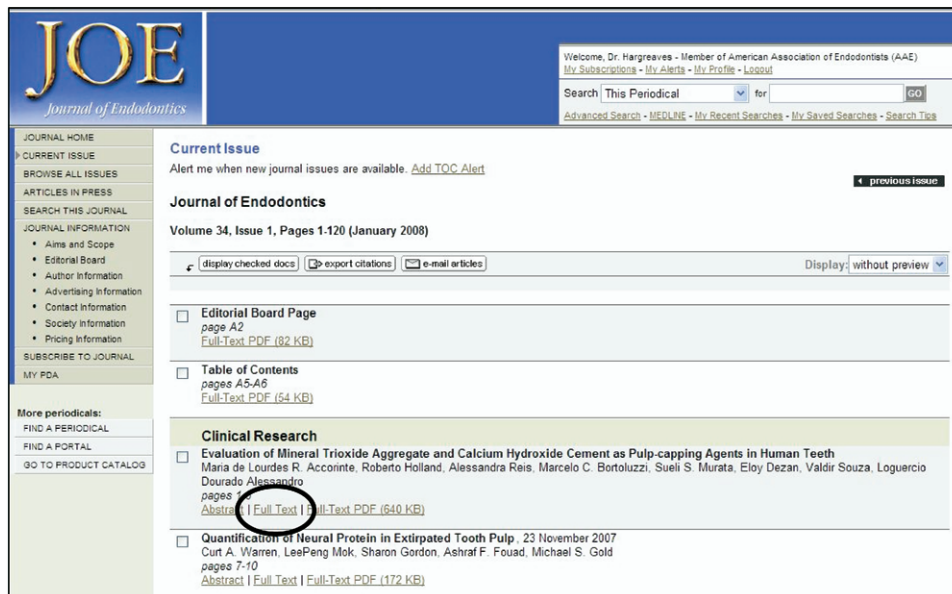


Figure 1. Navigation to HTML version.

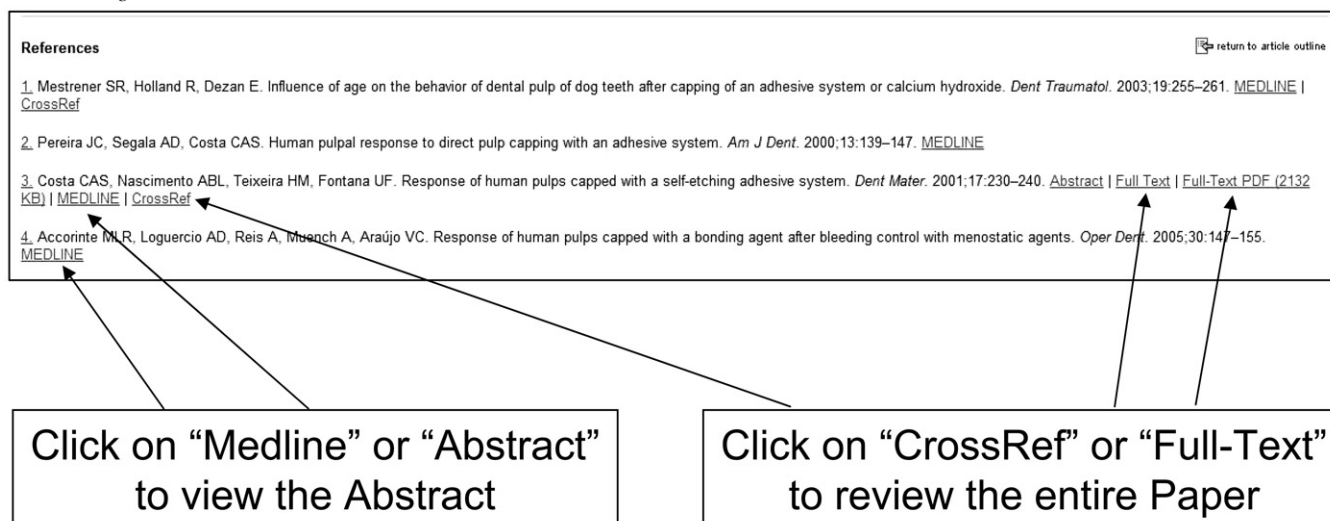


Figure 2. Hyperlink to References.

References

1. Neagley RL. The effect of dowel preparation on the apical seal of endodontically treated teeth. *Oral Surg Oral Med Oral Pathol* 1969;28:739–45.
2. Dickey DJ, Harris GZ, Lemon RR, Luebke RG. Effect of post space preparation on apical seal using solvent techniques and Peeso reamers. *J Endod* 1982;8:351–4.
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18. Munoz HR, Saravia-Lemus GA, Florian WE, Lainfiesta JF. Microbial leakage of *Enterococcus faecalis* after post space preparation in teeth filled in vivo with RealSeal versus gutta-percha. *J Endod* 2007;33:673–5.