



شبكة المعلومات الجامعية
التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم



HANAA ALY



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شبكة المعلومات الجامعية التوثيق الإلكتروني والميكروفيلم



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جامعة عين شمس التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغييرات



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تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



HANAA ALY



**Clinical and Radiographic Evaluation of Triple Antibiotic Paste
and Calcium Hydroxide with Iodoform as Intra-canal
Medications in Regenerative Treatment of Necrotic Primary
Teeth.**

Randomized Clinical Trial

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Dedication

*To my beloved
family and
friends*

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List of Abbreviations / Acronym

American Academy of pediatric dentistry	AAPD
American Association of Endodontics	AAE
Calcium Hydroxide	Ca(OH) ₂
Cell Homing	CH
Chlorohexidine	CHX
Ethylene Diaminetetracetic acid	EDTA
Intracanal medication	ICM
Lesion sterilization and tissue repair	LSTR
Mineral trioxide aggregate	MTA
Mixture of tetracycline isomer, acid and a detergent	MTAD
Modified triple antibiotic paste	mTAP
Randomized Controlled Trial	RCT
Regenerative Endodontics procedure	REP
Sodium Hypochlorite	NaOCl
Triple Antibiotic Paste	TAP
Zinc Oxide and Eugenol	ZOE

Abstract

Aims and Objectives: clinically and radiographically assess the regenerative endodontics procedure in necrotic primary molars in comparison to zinc oxide eugenol pulpectomy. **Materials and methods:** A double-blinded randomized controlled trial with three parallel arms and a 1:1:1 allocation ratio was conducted. Fifty- four necrotic primary molars in 39 healthy children aged 4-7 years old were randomly allocated as follows Group A - control group, in which zinc oxide and eugenol pulpectomy was performed. Group B and C - experimental groups, in which regenerative endodontic procedure was performed. Modified triple antibiotic paste and Metapex™ were used as intracanal medicaments in groups B and C, respectively. Clinical and radiographic assessments were recorded at baseline, 6 and 12 months. Chi-square and Fisher's Exact test was used to compare the qualitative data, while Friedman's test was used to study the changes by time within each group, Binary logistic regression analysis was used, and Kaplan-Meier survival curve was constructed. **Results:** Non statistically significant differences were reported between the three groups at the 6 and 12 months follow-ups regarding the clinical or radiographic assessment (p-value=0.327, Effect size= 0.22), (p-value= 0.055, Effect size= 0.118) respectively. The clinical and radiographic survival rates were statistically nonsignificant between the three groups. **Conclusions:** Regenerative endodontic procedure yielded comparable results to pulpectomy. The use of Metapex™ as an intracanal medication was more effective. **Clinical significance:** regenerative endodontic therapy provides an acceptable biological alternative to pulpectomy.

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