

INPLASY

The Effect of Manual Preparation, Single File or Rotary File Systems on postoperative pain

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ADMINISTRATIVE INFORMATION

Support - Cleveland Dental Institute.

Review Stage at time of this submission - Risk of bias assessment.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202440086

Amendments - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 22 April 2024 and was last updated on 22 April 2024.

INTRODUCTION

Review question / Objective Compare the effect of Manual Preparation, Single File or Rotary File Systems on postoperative pain.

Condition being studied Postoperative pain after endodontic treatment of permanent teeth.

METHODS

Participant or population 18 and above, both genders, domestic or international.

Intervention Single file.

Comparator Rotary file.

Study designs to be included Randomized clinical trial.

Eligibility criteria Randomized clinical trial studies only.

Information sources Pumped, Cochrane library.

Main outcome(s) To evaluate the influence of manual, rotary and reciprocating kinematics on the incidence of postoperative pain after endodontic treatment of permanent teeth. The null hypothesis is that there will be no difference in postoperative pain after manual, rotary and reciprocating preparation of the root canal.

Quality assessment / Risk of bias analysis Quality assessment and data synthesis will be

performed using PRISMA guidelines and RevMan software, respectively. Was done.

Strategy of data synthesis By Comparing data extraction.

Subgroup analysis Analyzing risk bias.

Sensitivity analysis was checked.

Country(ies) involved United States.

Keywords Post operative pain, rotary file, hand files, Manual Preparation, Single File or Rotary File Systems.

Contributions of each author

Author 1 - Yasser Jazairi.

Author 2 - Ethel Alfaro.