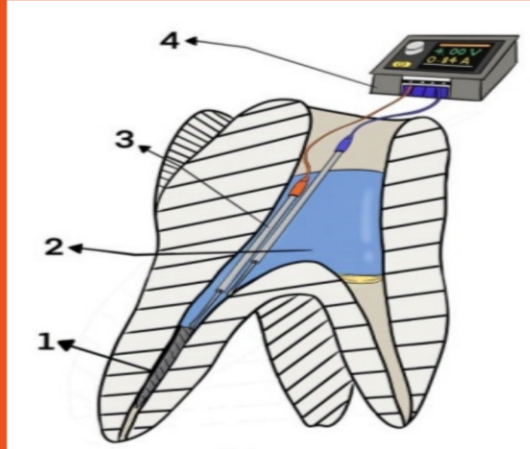


ELECTROCHEMICAL DISSOLUTION OF BROKEN ENDODONTIC FILES

INTRODUCTION

Less complex retrieval method by electrochemical dissolution of fractured files as a means to recover the original canal path.

METHODOLOGY



Dissolution process with specially constructed electrochemical dissolution device, canals filled with electrolyte and two electrodes inside the root canal

ANALYSIS



(a) electrochemical dissolution process



(b) Optical image of file before electrochemical dissolution



(c) Optical image of the file after electrochemical dissolution

SOLUTIONS USED FOR ELECTROCHEMICAL DISSOLUTION OF NITI FILES



TYRODES
SOLUTION



ARTIFICIAL
SALIVA

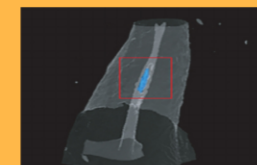
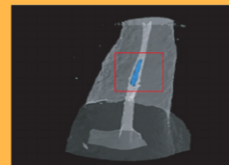


RINGERS
LACTATE



NORMAL
SALINE

RESULTS/FINDINGS



Significant reduction in length and weight of the fragment

CONCLUSION

This process results in significant loss in length and weight of the file.