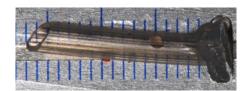


SURGICAL DECOMPRESSION: NOT JUST A PRELUDE TO ENDODONTIC MICROSURGERY

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AIM

• To report the use and evolution of novel 3D printed surgical decompression devices to induce healing of large periapical lesions.







Different devices used for decompression

<u>METHOD</u>

- Patient (21 years old, male) previously sustained a lateral luxation injury in 2019
- UR1 root canal treatment was completed in specialist private practice
- Referred one-year post-treatment due to development of a large apical lesion and CBCT indicated possible radicular cyst
- A soft acrylic device was digitally designed and 3D printed with circumferential perforations for suturing
- Following placement, the patient was given an irrigation protocol and aftercare advice

PRE-OP RADIOGRAPH



IDEAL PROPERTIES OF A DEVICE

Biocompatible

Does not favour clot formation

Cost-effective

Moderate stiffness

Facilitates passage of sutures

Large lumen

Radiopaque

Sterilisable







