



## Pulpotomy or root canal treatment for the management of Irreversible Pulpitis in mature teeth (PIP Study)

**Dentists: Are you interested in taking part in a Dental Research Study?**

### What is this study about?

The PIP Study has been funded by the NIHR to investigate the clinical and cost effectiveness of **Root Canal Treatment (RTCx) compared with Full Pulpotomy (FP)** for the treatment of **irreversible pulpitis** in permanent posterior teeth in the primary care setting. An initial feasibility study used patient and dentist feedback to inform the design of the PIP Study.

### Study Objectives:

- To compare the *clinical success of FP with RTCx (no re-intervention or symptoms of pulpitis or apical periodontitis) at 1 year.*
- To compare the *costs and benefits of FP with RTCx over a modelled life-time horizon.*
- To evaluate radiographic success, patient health related quality of life, dental pain at 7 days and 1 year following treatment.
- To explore the implementation of technologies and the mechanisms of impact including acceptability of interventions to patients and clinicians.

### Who can take part?

- NHS general dental practices with adult patients (>16 years) seeking treatment with symptoms of irreversible pulpitis
- The study aims to recruit 530 patient participants from 50 dental practices across Scotland and England (Approx. 11 patients per practice)

### Patient Eligibility Criteria

#### Inclusion:

Patients (≥ 16 years of age) who have:

- Symptoms indicative of irreversible pulpitis in a premolar/molar tooth with deep caries and or a deep restoration

#### Exclusion:

- Immature roots, clinical or radiographic signs of a necrotic pulp, poor prognosis (e.g. internal or external resorption), or insufficient tooth tissue for a restoration
- Presence of a sinus, tenderness to percussion, buccal tenderness, pathological mobility or evidence of pathology on a periapical radiograph
- All treatment delivered under a private contract
- Unable to give informed consent

### Training provided to PIP clinicians

- A 2 hour clinical training session in the Full Pulpotomy technique in a clinical skills facility at a centralised location. Travel expenses will be reimbursed. You are required to attend one in person clinical training session only
- Online Good Clinical Practice training package
- Online training resource will be available throughout the study
- CPD points will be awarded

### Remuneration

#### For recruitment of 11 patients:

- Set up cost for a site briefing with practice members and clinical training – **£435.50**
- Admin fee at start of Study, including fee for x-ray / radiographs & a 30 minute interview – (£87 per participant x11) **£957**
- Admin fee at end of Study, including fee for x-ray / radiograph – (£43.50 per participant x11) **£478.50**
- Service Support Cost for participant identification, recruitment and consent - up to **£775** per practice
- Attendance at end of Study Conference - **£305**
- Biodentine will be supplied to the practice for every Full Pulpotomy Participant

### Co-Chief Investigators & Local Leads

Co-Chief Investigators: Prof Jan Clarkson, University of Dundee & Prof Craig Ramsay, University of Aberdeen are funded by National Institute for Health Research (NIHR) HTA for this research project.

Local Lead London: Prof Francesco Mannocci & Prof Avijit Banerjee

Local Lead Liverpool: Prof Fadi Jarad & Prof Sondos Albadri

Local Lead Scotland: Dr Carol Tait & Prof David Ricketts

### Contact us if you are interested in participating or if you would like more information:

Study email: [PIP-Study@dundee.ac.uk](mailto:PIP-Study@dundee.ac.uk)