

## **R035: Short, medium and long-term outcomes of root filled molar teeth treated within Northern Ireland General Dental Practices and factors that may affect this outcome – QUB**

Root canal treatment involves removal of dental pulp tissue in a compromised tooth. Whilst treatment is generally successful, it is destructive, expensive, time-consuming and technically challenging. Root canal treatment accounts for significant spend of NHS resource each year yet there is limited local evidence about survival of these teeth and factors which may influence that survival.

This project seeks to add to the evidence base about success rates of molar root canal treatment within General Practice and identify factors that may influence that success rate in General Dental Practices across Northern Ireland.

Aim: This project is a retrospective study evaluating the survival of molar root canal treatments which have been completed in General Dental Practices across Northern Ireland.

### Objectives:

- Determine the 10 year survival rate of molar teeth root treated within General Dental Practices across Northern Ireland.
- Determine the factors that may influence that survival including:
  1. Patients related factors (patient's age and gender, frequency of attendance, overall dental treatment need, paying status)
  2. Tooth related factors (tooth position, final restoration type at time of root canal treatment completion, future tooth functionality post root treatment including use as denture or bridge abutment)
  3. Dentist related factors (gender, year of joining the GDS list, status of General Dental Practitioner (Principal, Assistant, Foundation dentist)).