

# A comparison of sevoflurane and nitrous oxide as inhalation agents for dental sedation

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		<input type="checkbox"/> Protocol
<b>Registration date</b> 12/09/2003	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
<b>Last Edited</b> 25/03/2020	<b>Condition category</b> Oral Health	<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

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## Additional identifiers

**Protocol serial number**  
N0013122021

## Study information

**Scientific Title**  
A comparison of sevoflurane and nitrous oxide as inhalation agents for dental sedation

**Study objectives**

To assess whether sevoflurane/oxygen is a suitable alternative to nitrous oxide/oxygen sedation in the treatment of anxious adult dental patients presenting to a sedation clinic in a dental hospital.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Not provided at time of registration

**Primary study design**

Interventional

**Study design**

Randomised controlled trial

**Study type(s)**

Treatment

**Health condition(s) or problem(s) studied**

Oral Health: Anaesthesia/Sedation

**Interventions**

The level of patient's anxiety will be assessed then each patient will attend for two visits. On the first visit, patients will be given either nitrous oxide/oxygen or sevoflurane/oxygen, the choice being randomized. Patients will be given the alternative drug on the second visit. The operator will score the acceptability of sedation received. After a period of recovery, the patient will be asked to fill in a questionnaire about their experience of sedation.

**Intervention Type**

Drug

**Phase**

Not Applicable

**Drug/device/biological/vaccine name(s)**

Sevoflurane and nitrous oxide

**Primary outcome(s)**

The patient's vital signs will be recorded throughout the procedure and analysed and compared for the two sedative agents. This will give an indication of whether sevoflurane is a more acceptable agent for sedation both in terms of the operator and the patient.

**Key secondary outcome(s)**

Not provided at time of registration

**Completion date**

31/07/2003

# Eligibility

## Key inclusion criteria

1. Adult who have some form of dental anxiety
2. American Society of Anesthesiologists (ASA) I/II
3. Can give valid consent.

Patients must be escorted by a responsible adult on the days of the sedation procedures.

## Participant type(s)

Patient

## Healthy volunteers allowed

No

## Age group

Adult

## Sex

Not Specified

## Key exclusion criteria

- 1 Pregnancy or possible pregnancy
- 2 Nursing mothers
3. Patients with heart conditions
4. History of allergy to sevoflurane or any related agents

## Date of first enrolment

01/04/2002

## Date of final enrolment

31/07/2003

# Locations

## Countries of recruitment

United Kingdom

England

## Study participating centre

Guy's Hospital

London

United Kingdom

SE1 9RT

# Sponsor information

## Organisation

Department of Health (UK)

## Funder(s)

### Funder type

Hospital/treatment centre

### Funder Name

Guy's and St Thomas' NHS Foundation Trust

### Alternative Name(s)

### Funding Body Type

Government organisation

### Funding Body Subtype

Local government

### Location

United Kingdom

## Results and Publications

### Individual participant data (IPD) sharing plan

#### IPD sharing plan summary

Not provided at time of registration