

# Comparison of the standard polyvinyl chloride tracheal tubes and the straight reinforced tracheal tubes for tracheal intubation through different sizes of the Airtraq™ laryngoscope in anaesthetised and paralysed patients

<b>Submission date</b> 09/03/2009	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 30/03/2009	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 30/03/2009	<b>Condition category</b> Surgery	<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**  
anesth2008/01

## Study information

**Scientific Title**

Comparison of the standard Polyvinyl chloride tracheal tubes and the straight reinforced tracheal tubes for tracheal intubation through different sizes of the Airtraq™ laryngoscope in anesthetised and paralysed patients; a prospective randomised study

**Study objectives**

We compared the intubation success rate of straight reinforced tracheal tubes emerging from the Airtraq™ laryngoscope (AL) (Prodol Meditec SA, Spain) with the standard polyvinyl chloride (PVC) tracheal tubes in anesthetised and paralysed patients.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

General Hospital of Athens Ethics Committee, approved on 15/06/2008 (ref: 2008/98).

**Study design**

Randomised controlled trial

**Primary study design**

Interventional

**Study type(s)**

Treatment

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

Tracheal intubation

**Interventions**

The study was conducted in the General Hospital of Athens from March 2007 to January 2009. In total, 347 participants were enrolled into the study.

The participants were randomly allocated (using sealed envelopes) to the following three arms:

1. Intubation with PVC tracheal tubes (PVCT)
2. Intubation with standard wire-reinforced tracheal tubes (RFT)
3. Intubation with silicone wire-reinforced tubes (RFST)

Two sizes of AL were available (7.0-8.5 ID and 6.0-7.5 ID). The sizes of AL and tracheal tube were chosen according to the weight, height and sex of each patient.

**Intervention Type**

Procedure/Surgery

**Phase**

Not Applicable

**Primary outcome(s)**

1. Rate of successful intubation
2. Impact of AL size, tube size and type on intubation angle

**Key secondary outcome(s))**

Factors affecting successful intubation with straight reinforced tubes through the Airtraq™ laryngoscope.

**Completion date**

01/01/2009

## **Eligibility**

**Key inclusion criteria**

1. Both males and females, aged 22-75 years
2. American Society of Anesthesiologists (ASA) physical status I-III
3. Scheduled for surgical procedures requiring tracheal intubation

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

All

**Key exclusion criteria**

1. Increased risk or history of difficult intubation
2. History of gastric aspiration
3. History of relevant drug allergy

**Date of first enrolment**

01/03/2007

**Date of final enrolment**

01/01/2009

## **Locations**

**Countries of recruitment**

Greece

**Study participating centre**

**Department of Anaesthesia**

Athens

Greece

11475

# Sponsor information

## Organisation

General Hospital of Athens (Greece)

## Funder(s)

### Funder type

Hospital/treatment centre

### Funder Name

General Hospital of Athens, Department of Anaesthesia (Greece)

### Funder Name

Nutri Medica (representative of Prodol Ltd in Greece) provided the Airtraq™ devices free of charge for use in the study

# Results and Publications

## Individual participant data (IPD) sharing plan

### IPD sharing plan summary

Not provided at time of registration