

Ultrasound guided jugular vein cannulation

Submission date 19/03/2008	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 08/04/2008	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 08/04/2008	Condition category 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

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
N/A

Study information

Scientific Title

Internal jugular vein cannulation using ultrasound guidance: a prospective randomised controlled trial

Study objectives

Real time ultrasound guided cannulation of the internal jugular vein (IJV) is more efficient than catheterisation using ultrasound located landmarks.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics approval received from "Attikon" Hospital Ethics Committee on the 23rd January 2004 (ref: AP. 420/CP "ATTIKON" Hospital).

Study design

Prospective randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Jugular vein cannulation

Interventions

Patients who need an internal jugular vein catheter are randomised, using sealed envelopes, in two groups:

Group A (real time ultrasound [U/S]): IJV Cannulation using real time ultrasound

Group B (U/S located landmarks): IJV cannulation using ultrasound located landmarks

Patients with IJV thrombosis were excluded. The success rate of cannulation was measured (attempts less than or equal to three by the same operator), along with the duration of time until successful cannulation and complications.

Intervention Type

Procedure/Surgery

Phase

Not Specified

Primary outcome measure

Success rate of cannulation, attempts less than or equal to three by the same operator.

Secondary outcome measures

1. Number of tries
2. Time to complete cannulation
3. Immediate complications (assessed by the operator and his assistance)
4. Place of the catheter using x-ray just after cannulation (assessed by a radiologist)
5. Early complications, measured at days 1, 2 and 5 post cannulation (assessed by a senior surgeon)
6. Later complications (late infections and obstruction of catheters "life" up to six months, assessed by a physician and/or a senior nurse)

Overall study start date

01/02/2004

Completion date

30/05/2008

Eligibility**Key inclusion criteria**

1. Patients of the "Attikon" Hospital, in General Surgery, Oncology and Haematology Departments
2. Males and females, from 18 - 80 years of age

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Upper age limit

80 Years

Sex

Both

Target number of participants

212 - 556

Key exclusion criteria

Patients with internal jugular vein thrombosis.

Date of first enrolment

01/02/2004

Date of final enrolment

30/05/2008

Locations

Countries of recruitment

Greece

Study participating centre

"Attikon" Hospital

Athens

Greece

124 10

Sponsor information

Organisation

"Attikon" Teaching Hospital (Greece) - University of Athens

Sponsor details

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Sponsor type

Hospital/treatment centre

ROR

<https://ror.org/03gb7n667>

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

"Attikon" Teaching Hospital (Greece) - University of Athens

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration