ISRCTN49093383 https://doi.org/10.1186/ISRCTN49093383

Transcranial doppler sonography with a transorbital approach as a confirmatory test in the diagnosis of brain death

Submission date	Recruitment status	[ ] Prospectively registered
26/09/2008	No longer recruiting	[ ] Protocol
Registration date	**Overall study status**	[ ] Statistical analysis plan
27/10/2008	Completed	[ ] Results
Last Edited	**Condition category**	[ ] Individual participant data
27/10/2008	Nervous System Diseases	[ ] 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

Study information

Scientific Title

Study objectives

This study was designed to evaluate whether the routine addition of the transorbital doppler examination of the carotid siphon in patients suspected of brain death improves the efficiency of the transcranial doppler examination protocol.

Ethics approval required
Old ethics approval format

Ethics approval(s)
The study was approved by the Institutional Ethics Committee of the General State Hospital of Athens in 2005 (ref: ICUTCD2005/2).

Primary study design
Interventional

Study design
Randomised controlled trial

Study type(s)
Diagnostic

Health condition(s) or problem(s) studied
Brain death

Interventions
All patients underwent cerebral angiography, transcranial doppler examination of the basilar, anterior and middle cerebral arteries bilaterally. In addition, the patients in the intervention group were assessed by transorbital doppler of the carotid siphons bilaterally.

Intervention Type
Other

Phase
Not Specified

Primary outcome(s)
Blood flow patterns measured by transcranial doppler sonography with a suboccipital, transtemporal and transorbital approach.

Key secondary outcome(s)
Efficacy of the transorbital approach in the diagnosis of brain death with transcranial doppler sonography.

Completion date
31/07/2008

Eligibility

Key inclusion criteria

Brain dead patients of the intensive care unit (both males and females, aged greater than 16 years) who were hospitalised from October 2005 to July 2008.

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Sex
All

Key exclusion criteria
1. Patients with an episode of hypoxia or hypotension during the angiographic or transcranial doppler examinations
2. Patients with no flow at the initial transcranial doppler examination in any approach

Date of first enrolment
01/10/2005

Date of final enrolment
31/07/2008

Locations

Countries of recruitment
Greece

Study participating centre
154 Mesogeion Ave
Athens
Greece
11527

Sponsor information

Organisation
Athens General Hospital "G. Gennimatas" (Greece)

ROR
https://ror.org/00zq17821

Funder(s)

Funder type
Hospital/treatment centre

Funder Name
Athens General Hospital "G. Gennimatas" (Greece) - Intensive Care Unit (ICU) Department

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary
Not provided at time of registration