

Optic nerve sonography in the non-invasive assessment of severe brain injury

Submission date
19/01/2008

Recruitment status
No longer recruiting

☐ Prospectively registered

☐ Protocol

Registration date
14/02/2008

Overall study status
Completed

☐ Statistical analysis plan

☒ Results

Last Edited
30/10/2008

Condition category
Injury, Occupational Diseases, Poisoning

☐ Individual participant data

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
N/A

Study information

Scientific Title

Study objectives

This study was designed to evaluate whether sonographic measurements of the optic nerve diameter correlate with synchronous, non-invasive and invasive measurements of the intracranial pressure in brain-injured adults.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Institutional Ethics Committee of the General State Hospital of Athens, approved in 1999 (ref: 1999/02/ICUGG)

Study design

Prospective, randomised controlled study.

Primary study design

Interventional

Study type(s)

Diagnostic

Health condition(s) or problem(s) studied

Severe brain injury

Interventions

All patients underwent non-invasive measurements of the intracranial pressure by transcranial Doppler sonography, and synchronous optic nerve diameter measurements by optic nerve sonography. Invasive measurements of the intracranial pressure by an intraparenchymal catheter were performed in 32 of the patients with severe brain injury.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

The following were measured within the first 24 h of admission to the intensive care unit:

1. Optic nerve diameter
2. Intracranial pressure
3. Neuroimaging results

Key secondary outcome(s))

No secondary outcome measures

Completion date

31/08/2007

Eligibility

Key inclusion criteria

Intensive care patients who were hospitalized from October 2006 to August 2007

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

All

Key exclusion criteria

Patients with orbitofacial trauma or known disease of the optic nerve

Date of first enrolment

01/10/2006

Date of final enrolment

31/08/2007

Locations**Countries of recruitment**

Greece

Study participating centre

Intensive Care Unit

Athens

Greece

11527

Sponsor information**Organisation**

General State Hospital of Athens (Greece)

ROR

<https://ror.org/00zq17821>

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

General State Hospital of Athens, Intensive Care Unit (Greece)

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/10/2008		Yes	No