

Ultrasound study of echocardiographic artifacts in mechanically ventilated patients

Submission date 02/07/2008	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 10/07/2008	Overall study status Completed	☐ Statistical analysis plan ☒ Results
Last Edited 30/10/2008	Condition category Respiratory	☐ 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
Artifact2008

Study information

Scientific Title
The "cardiac-lung mass" artifact: an echocardiographic sign of lung atelectasis and/or pleural effusion

Study objectives

We performed an ultrasound study to investigate echocardiographic artifacts in mechanically ventilated patients with lung pathology, based upon the incidental discovery of such findings in five critically ill patients.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics approval received from the Institutional Ethics Committee of the General Hospital of Athens Intensive Care Unit in August 2005 (ref: 006/08).

Primary study design

Observational

Study design

Observational progressive ultrasound study

Study type(s)

Screening

Health condition(s) or problem(s) studied

Lung atelectasis or consolidation, and/or pleural effusion

Interventions

Subjects underwent lung echography and transthoracic echocardiography (TTE) with a Philips XD11 XE ultrasound device (Philips, Bothell, USA) equipped with a convex 5 to 7 MHz and with a 1.5 to 3.6-MHz wide-angle, phased-array transducer, respectively. Patients were examined by two experienced observers blinded to each others' interpretation.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Occurrence of possible echocardiographic artifacts generated by adjacent lung pathology.

Key secondary outcome(s)

No secondary outcome measures

Completion date

01/01/2008

Eligibility**Key inclusion criteria**

1. Critically ill patients (adults, either sex)
2. Body mass index less than 30 kg/m²

3. Acute Physiology And Chronic Health Evaluation (APACHE II) score less than 25
4. Exhibited the same initial findings on lung echography, lung atelectasis and/or pleural effusion

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

All

Key exclusion criteria

Mechanically ventilated patients without any signs of lung pathology

Date of first enrolment

01/01/2005

Date of final enrolment

01/01/2008

Locations**Countries of recruitment**

France

Greece

Study participating centre

Intensive Care Unit

Athens

Greece

11527

Sponsor information**Organisation**

General Hospital of Athens (Greece)

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

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

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	01/06/2008		Yes	No