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Ultrasound study of echocardiographic artifacts in mechanically ventilated patients

Submission date	Recruitment status	[_] Prospectively registered
02/07/2008	No longer recruiting	[_] Protocol
Registration date	**Overall study status**	[_] Statistical analysis plan
10/07/2008	Completed	[X] Results
Last Edited	**Condition category**	[_] Individual participant data
30/10/2008	Respiratory	

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).

Study design
Observational progressive ultrasound study

Primary study design
Observational

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)
Occurence 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/m^2

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