

Intrapulmonary percussive ventilation (IPV) in acute exacerbations of chronic obstructive pulmonary disease (COPD) patients with mild respiratory acidosis: a randomised controlled trial

Submission date	Recruitment status	<input type="checkbox"/> Prospectively registered
15/04/2005	No longer recruiting	<input type="checkbox"/> Protocol
Registration date	Overall study status	<input type="checkbox"/> Statistical analysis plan
18/04/2005	Completed	<input checked="" type="checkbox"/> Results
Last Edited	Condition category	<input type="checkbox"/> Individual participant data
13/06/2014	Respiratory	

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

Dr Frederic Vargas

Contact details

Pellegrin-Tripode Hospital
Bordeaux
France
33076
frederic.vargas@chu-bordeaux.fr

Additional identifiers

Protocol serial number

N/A

Study information

Scientific Title**Study objectives**

We hypothesised that the use of intrapulmonary percussive ventilation (IPV), a technique designed to improve mucus clearance, could prove effective in avoiding further deterioration in patients with acute exacerbations of chronic obstructive pulmonary disease (COPD) with mild respiratory acidosis.

Ethics approval required

Old ethics approval format

Ethics approval(s)

The experimental protocol was approved by the institutional review board of the hospital

Study design

Randomised controlled trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Acute exacerbations of chronic obstructive pulmonary disease (COPD) patients with mild respiratory acidosis

Interventions

Comparison of two groups of COPD:

1. A standard group: COPD patients with standard treatment alone
2. An IPV group: COPD patients with standard treatment plus IPV

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

Therapy was considered to be successful when it enabled the avoidance of both a worsening of the exacerbation and a decrease in pH to under 7.35 (which would have required NIV), and allowed the patient to be discharged from the ICU.

Key secondary outcome(s)

Not provided at time of registration

Completion date

31/12/2004

Eligibility

Key inclusion criteria

COPD patients in acute exacerbations and respiratory acidosis with pH between 7.35 and 7.38

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

Not Specified

Key exclusion criteria

1. The requirement for emergency intubation for cardiopulmonary resuscitation, respiratory arrest, or in the case of rapid deterioration in neurological status (Glasgow coma scale inferior or equal to 8)
2. Hemodynamic instability defined as a systolic blood pressure of less than 80 mmHg or evidence on electrocardiography of ischemia or clinically significant ventricular arrhythmias
3. Failure of more than two additional organs; or tracheotomy, pneumothorax, facial deformity, or a recent history of oral, oesophageal or gastric surgery

Date of first enrolment

01/01/2003

Date of final enrolment

31/12/2004

Locations

Countries of recruitment

France

Study participating centre

Pellegrin-Tripode Hospital

Bordeaux

France

33076

Sponsor information

Organisation
Pellegrin-Tripode Hospital (France)

ROR
<https://ror.org/02x581406>

Funder(s)

Funder type

Other

Funder Name

Not provided at time of registration

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	01/08/2005		Yes	No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes