

# Lung complications after traumatic pelvic fracture in intensive care patients

<b>Submission date</b> 27/09/2015	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 28/10/2015	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 21/04/2016	<b>Condition category</b> Respiratory	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

The pelvis is a butterfly-shaped fused ring of bones which sit at the bottom of the spine. Fractures of the pelvis are most commonly caused by serious injuries (major trauma), such as in a car accident or fall from a great height. When a person sustains major physical trauma, direct or indirect complications often arise. Acute respiratory distress syndrome (ARDS) is a life-threatening condition, where the lungs are unable to provide the body with adequate oxygen to meet its' requirements. This condition is one of the most common lung complications when a person is already critically ill or seriously injured. The aim of this study is to find out how common lung complications such as ARDS are in people who have a traumatic pelvic fracture.

### Who can participate?

Adults admitted to an intensive care unit (ICU) at Uppsala University Hospital with a fractured pelvis between 2007 and 2014.

### What does the study involve?

Records of patients are accessed from the publically available pelvic fracture database. The researchers then record the amount of these patients who suffered any lung complications during their stay in intensive care.

### What are the possible benefits and risks of participating?

There are no potential benefits or risks of participating in this study.

### Where is the study run from?

Department of Anesthesiology and Intensive Care Medicine, Uppsala Academic Hospital (Sweden)

### When is the study starting and how long is it expected to run for?

February 2013 to January 2016

### Who is funding the study?

Uppsala County Council (Sweden)

Who is the main contact?

Mr Joakim Engström

## Contact information

### Type(s)

Scientific

### Contact name

Mr Joakim Engström

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### Contact details

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## Additional identifiers

### Protocol serial number

N/A

## Study information

### Scientific Title

Pulmonary complications after pelvic fracture in critically ill patients

### Study objectives

The aim of the study is to investigate the hypothesis with the primary end-point of lung complication rate in all patients that has been admitted to an ICU at Uppsala University Hospital between 2007 and 2014 due to pelvic fracture.

### Ethics approval required

Old ethics approval format

### Ethics approval(s)

Regional Ethical Review Board, Uppsala (Regionala etikprövningsnämnden, Uppsala), 09/08 /2006, ref: 2006/140

### Study design

Single-centre cohort study

### Primary study design

Observational

**Study type(s)**

Other

**Health condition(s) or problem(s) studied**

Lung complications after traumatic pelvic fracture

**Interventions**

From the pelvic fracture database, data from patient who have been admitted to one of the ICUs at Uppsala University Hospital between 2007 and 2014 is collected. Data that will be extracted is: date of injury, type of pelvic fracture, SAPS3, EMR, comorbidity, other injuries, origin of trauma, ISS, AIS, time to surgery, blood loss during surgery, ICU stay in days, ventilatory support, time in ventilatory support, p/F-ratio, pulmonary radiology, complication rate, vasoactive drugs, duration of need of vasoactive drugs, laboratory data, morbidity and mortality.

**Intervention Type**

Other

**Primary outcome(s)**

Acute respiratory distress syndrome (ARDS) frequency will be recorded from information in the pelvic fracture database during the intensive care period after the injury occurs.

**Key secondary outcome(s)**

Frequency of other lung complications (pneumonia, pneumothorax and pulmonary embolism) will be recorded from information in the pelvic fracture database during the intensive care period after the injury occurs.

**Completion date**

01/01/2016

**Eligibility**

**Key inclusion criteria**

1. Aged 18 or over
2. Patients admitted to any of the ICUs at Uppsala University Hospital after traumatic pelvic fracture between 2007-2014

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Key exclusion criteria**

1. Patients without an informed consent
2. Pregnancy
3. Patients not admitted to an ICU during hospital stay

**Date of first enrolment**

01/01/2015

**Date of final enrolment**

31/12/2015

**Locations****Countries of recruitment**

Sweden

**Study participating centre****Uppsala Academic Hospital**

Department of Anesthesiology and Intensive Care Medicine

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Uppsala

Sweden

75185

**Sponsor information****Organisation**

Uppsala County Council (Sweden)

**ROR**

<https://ror.org/01dv86r63>

**Funder(s)****Funder type**

Government

**Funder Name**

Uppsala County Council

# Results and Publications

## Individual participant data (IPD) sharing plan

### IPD sharing plan summary

Data sharing statement to be made available at a later date

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	19/04/2016		Yes	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes