

# 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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Uppsala  
Sweden  
75185

## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**

**Secondary identifying numbers**  
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)**

**Study design**

Single-centre cohort study

**Primary study design**

Observational

**Secondary study design**

Cohort study

**Study setting(s)**

Hospital

**Study type(s)**

Other

**Participant information sheet**

Not available in web format, please use the contact details below to request a patient information sheet

**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 measure**

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.

**Secondary outcome measures**

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.

**Overall study start date**

01/02/2013

**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

## Age group

Adult

## Lower age limit

18 Years

## Sex

Both

## Target number of participants

100-200 patients

## 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

ANIVA Ing70, 1 tr

Uppsala

Sweden

75185

# Sponsor information

## Organisation

Uppsala County Council (Sweden)

## Sponsor details

Slottsgränd 2

Uppsala

Sweden

753 09

## Sponsor type

Government

## Website

[www.lul.se](http://www.lul.se)

## ROR

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

# Funder(s)

## Funder type

Government

## Funder Name

Uppsala County Council

# Results and Publications

## Publication and dissemination plan

Plan to publish the study results in a major trauma journal.

## Intention to publish date

01/06/2016

## 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