

# A pilot study of a goal-directed haemodynamic protocol comparison by monitoring with LiDCOrapid or oesophageal Doppler and conventional therapy during liver resection

<b>Submission date</b> 10/03/2009	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 03/12/2009	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 20/07/2015	<b>Condition category</b> Surgery	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

Not provided at time of registration

## Contact information

### Type(s)

Scientific

### Contact name

Prof Claudia Spies

### Contact details

Augustenburger Platz 1

Berlin

Germany

13353

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claudia.spies@charite.de

## Additional identifiers

### Protocol serial number

N/A

## Study information

Scientific Title

Intra-operative comparison of a goal-directed haemodynamic protocol by monitoring with LiDCOrapid or oesophageal Doppler and conventional therapy during liver resection: a prospective, randomised, controlled, blinded, three-armed single-centre pilot study

### **Study objectives**

Compared to conventional therapy an intra-operative goal-directed haemodynamic management by monitoring with LiDCOrapid or oesophageal Doppler improves haemodynamics measured by stroke volume (SV) in patients undergoing elective liver resection.

As of 03/11/2010 this record has been updated to include an extended overall trial end date; the initial overall trial end date was 01/03/2010.

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Ethics Committee of Charité - University Medicine Berlin, 22/01/2009

### **Study design**

Prospective randomised controlled blinded three-armed single-centre pilot trial

### **Primary study design**

Interventional

### **Study type(s)**

Treatment

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

Elective liver resection surgery

### **Interventions**

The interventions will take place only during liver resection:

1. Conventional intra-operative haemodynamic management
2. Intra-operative LiDCOrapid-guided haemodynamic management
3. Intra-operative oesophageal Doppler-guided haemodynamic management

The last study day of the patient will be on the post-operative day 8 or on the day of hospital discharge (less than 8 post-operative days).

### **Intervention Type**

Procedure/Surgery

### **Phase**

Not Applicable

### **Primary outcome(s)**

Stroke volume before intra-operative start of liver resection

### **Key secondary outcome(s)**

All determined within the study period of 8 post-operative days:

1. Intra-operative and post-operative haemodynamic parameters

2. Intra-operative and post-operative blood loss
3. (Cumulative) frequency of organ dysfunctions (cerebral, pulmonal, renal, abdominal, cardiovascular)
4. Post-operative liver function (LiMax-test, ICG-Clearance, liver Doppler, laboratory tests: enzymatic and chemical parameters)
5. Peri-operative weight change
6. Post-operative incidence of infections
7. Satisfaction of the patients, the surgeons and anaesthetists
8. Time to fulfilling discharge criteria
9. Length of intensive care stay and hospital stay (LOS)
10. Quality of life measure (EQ-5D)
11. Laboratory tests: peri-operative endothelial and immunological alterations

**Completion date**

29/08/2010

## Eligibility

**Key inclusion criteria**

Patients aged 18 years and over, either sex, undergoing elective liver resection in Charité - University Medicine Berlin, Campus Virchow-Clinic

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

All

**Key exclusion criteria**

1. Aged less than 18 years
2. No written informed consent from patient
3. For female patients: pregnancy or lactation
3. Inability to communicate freely in the German language
4. Lack of willingness to safe and hand out pseudonymised data within the clinical study
5. Simultaneous participation of the patient in another study
6. Accommodation in an institution due to an official or judicial order
7. Members of staff of the Charité
8. Unclear history of alcohol used disorder
9. Advanced disease of the oesophagus or nasopharyngeal cavity
10. Operations in the area of the oesophagus or nasopharynx within the last two months
11. History of bleeding tendency e.g. Von Willebrands disease

12. Neurological or psychiatric disease
13. Chronic heart failure New York Heart Association (NYHA) class IV
14. American Society of Anaesthesiologists (ASA) classification greater than IV
15. Chronic renal failure with dependency of haemodialysis
16. Existence of a pulmonary oedema in the pre-operative chest x-ray
17. History of intracranial haemorrhage within one year
18. Allergy to gelatin

**Date of first enrolment**

01/03/2009

**Date of final enrolment**

29/08/2010

## Locations

**Countries of recruitment**

Germany

**Study participating centre**

Augustenburger Platz 1

Berlin

Germany

13353

## Sponsor information

**Organisation**

Charité - University Medicine Berlin (Charité - Universitätsmedizin Berlin) (Germany)

**ROR**

<https://ror.org/001w7jn25>

## Funder(s)

**Funder type**

Hospital/treatment centre

**Funder Name**

Charité Universitätsmedizin Berlin

**Alternative Name(s)**

Medical School - Charité - University Medicine Berlin

### Funding Body Type

Private sector organisation

### Funding Body Subtype

For-profit companies (industry)

### Location

Germany

## 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?
<a href="#">Results article</a>	results	17/07/2015		Yes	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes