

View all studies Why register? Register your study Search Q Advanced Search View all studies Why register? Register your study Logout

ISRCTN15181117 https://doi.org/10.1186/ISRCTN15181117



The effect of anesthetic technique on neonatal morbidity in emergent cesarean section for fetal distress

 Condition category
 Prospective/Retrospective

 Pregnancy and
 Retrospectively

 Childbirth
 registered

 Date applied
 Overall trial status

 12/12/2015
 Completed

 Date assigned
 Recruitment status

 15/02/2016
 No longer recruiting

Last edited 15/02/2016

Plain English Summary

Background and study aims

An emergent (or emergency) caesarean section is one of the biggest challenges faced by an obstetric anaesthetist. As the outcome for both mother and unborn baby depends on the coordination and vigilance of the obstetrician and anaesthetist, the decision on what anesthetic technique to use can be of paramount importance. Current guidelines suggest regional (local) anaesthesia should be given in preference to general anaesthesia for elective (pre-planned) caesarean sections. However, for an emergency caesarean section, there may not be enough time to give a regional anaesthetic. Evidence does suggest that regional anaesthesia should be chosen in preference to general anaesthesia if there is time. However, there are few published studies looking at the neonatal morbidity (disease causing) for emergency caesareans where the baby has been identified as being in distress (foetal distress). In this study, neonatal morbidity will be compared for emergency caesarean sections carried out using regional anaesthesia compared with general anaesthesia.

Who can participate?

Women aged 18-45 in labour where their unborn baby is showing signs of distress.

What does the study involve?

For each patient in the study, the senior anaesthetist decides the type of anaesthesia according to both national guidelines and patients' approval. The patients are divided into two groups, general anaesthesia group (group g) or regional anaesthesia group (group r). Heart rate, arterial tension pressure and demographic data are all recorded for each patient. Once the baby is born, APGAR scores (a way of summarising the health of a newborn baby) are recorded one minute after birth and then again at 3 minutes and 5 minutes after birth. If the babies condition is critical and there are umbilical blood gases (suggesting foetal distress) this data is also recorded. After the operation , the neonates are followed up until their discharge from hospital. Any morbid (disease-causing) conditions are also recorded.

What are the possible benefits and risks of participating?

There is no risk for the participants because it is an observational study.

Where is the study run from?

Suleymaniye Birth and Women's Health Education and Research Hospital, Istanbul (Turkey)

When is the study starting and how long is it expected to run for? July 2015 to December 2015

Who is funding the study?

Suleymaniye Birth and Women's Health Education and Research Hospital, Istanbul (Turkey)

Who is the main contact? Dr Ipek Saadet Edipoglu

Trial website

Contact information

Туре

Scientific

Primary contact

Dr Ipek Saadet Edipoglu

ORCID ID

Contact details Suleymaniye Birth And Women's Health Education And Research Hospital Telsiz Mah. Balıklı Kazlıcesme Yolu No:1 Zeytinburnu Istanbul 34116 Turkey

Additional identifiers

EudraCT number

ClinicalTrials.gov number

Protocol/serial number

N/A

Study information

Scientific title

The effect of anaesthetic technique on neonatal morbidity in emergent caesarean section for fetal distress: a prospective observational study

Acronym

Study hypothesis

To investigate the effect of anesthetic technique on neonatal morbidity in emergent cesareans by observing if administering regional anesthesia or general anesthesia influences the morbidity of the neonate.

Ethics approval

Research Hospital Clinical Studies Ethical Committee, 29/06/2015, ref: 2015/127

Study design

Single centered prospective observational study.

Primary study design

Observational

Secondary study design

Cohort study

Trial setting

Hospitals

Trial type

Treatment

Patient information sheet

Not available in web format, please use contact details to request a participant information sheet

Condition

Fetal distress and anesthetic technique

Intervention

We are going to observe emergent cesarean sections which are diagnosed as fetal distress. We are not going to intervene regarding the patients anesthetic choice. Regional anesthesia or general anesthesia will be applied according to the patients indication. The consultant anesthesiologist makes the decision about the type of anesthesia for emergent cesarean sections according to our national guidelines in our hospital. We are just going to observe and divide them into two groups: general anesthesia group and regional anesthesia group. The following will be recorded in all cases:

- 1. All patients peri-operative heart rate and mean arterial pressures
- 2. All neonates APGAR scores at 1, 3 and 5 minutes
- 3. The need for mechanical ventilation will also be recorded.
- 4. All morbid conditions

Intervention type

Procedure/Surgery

Phase

Drug names

Primary outcome measure

Neonatal morbidity, measured with APGAR scores in 1st, 3rd, 5th minutes, and umbilical blood gas (if indicated). After the operation we will follow neonates until discharge and record any morbid conditions. We define morbidity as 5-minute Apgar score (APGAR5) <7, any need for mechanical ventilation, any neonatal intensive care unit entrance and any respiratory insufficiency symptoms.

Secondary outcome measures

Morbidity of the mother if administering regional anesthesia compared to general anesthesia

Overall trial start date

01/07/2015

Overall trial end date

06/12/2015

Reason abandoned (if study stopped)

Eligibility

Participant inclusion criteria

- 1. Female
- 2. Age between 18-45
- 3. BMI<40
- 4. Patients diagnosed as being in fetal distress.
- 5. Patients without neurological diseases
- 6. Patients consenting to join the study

Participant type

Patient

Age group

Adult

Gender

Female

Target number of participants

60 patients will be included.

Participant exclusion criteria

- 1. Age less than 18 and older than 45
- 2. BMI>40
- 3. Patients that refuse to join study

Recruitment start date

01/07/2015

Recruitment end date

06/12/2015

Locations

Countries of recruitment

Turkey

Trial participating centre

Suleymaniye Birth And Women's Health Education And Research Hospital Telsiz Mah. Balıklı Kazlıcesme Yolu No:1 Zeytinburnu

Istanbul

34116

Turkey

Sponsor information

Organisation

Suleymaniye Birth And Women's Health Education And Research Hospital

Sponsor details

Telsiz Mah. Balıklı Kazlıcesme Yolu No:1 Zeytinburnu Istanbul 34116

Turkey

Sponsor type

Government

Website

Hospital/treatment centre			
Funder name Suleymaniye Birth And Women	n's Health Education And Research Hos	spital (Turkey)	
Alternative name(s)			
Funding Body Type			
Funding Body Subtype			
Location			
Results and Publications			
Publication and dissemination	on plan		
Intention to publish date 01/02/2016			
Participant level data			
To be made available at a later	date		
Basic results (scientific)			
Publication list			
Publication citations			
Additional files			
Additional files			
Editorial Notes			
About Governance Why register?	Search tips Resources FAQs	Follow us on Twitter Publish with BioMed Central Contact us	

© 2018 BioMed Central Ltd unless otherwise stated. Part of Springer Nature.

Funders
Funder type

Terms & Conditions and Privacy Policy

