

A trial of the induction of labour at 39 weeks or beyond in women who have never given birth before and have a short cervical length on ultrasound scan

Submission date 30/09/2021	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 06/10/2021	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
Last Edited 17/01/2023	Condition category Pregnancy and Childbirth	<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims

Electively inducing labour at 39 weeks on a planned date as opposed to 41 weeks gestation would be better in terms of patient satisfaction; the mother has control over her delivery date instead of having to anxiously wait for the labour to happen. This would give her more freedom to choose the delivery date and reduce the anxiety of waiting for the symptoms and signs of labour. We propose that patient satisfaction would be better in patients who have planned induction of labour.

Who can participate?

Women who are aged 18 years and above between 38 - 39+6 days gestation at enrolment with no previous deliveries and no medical problems needing early induction of labour.

What does the study involve?

All eligible women will be counselled, and if agreeable, they will consent to a transvaginal scan to assess the cervical length. The cervical length will be measured three times, and the shortest cervical length will be taken. A cervical length less than 27 mm will be considered a short cervix. Women with a "sonographic short cervix" will then be randomized into scheduled labour induction as soon as practicable on the day of the following week or standard expectant management.

Women allocated to labour induction will be instructed to attend at approximately 0800 hours on the planned day. Where possible, induction is by standard obstetric management after performing a bishop score.

Women who are randomized into the expectant arm will be managed as per standard antenatal care protocol to be induced at 41 weeks unless interim issues.

Maternal satisfaction scores will be assessed after delivery using the visual numerical rating scale and scored from 0-10.

What are the possible benefits and risks of participating?

Benefits: The patient can have a planned early induction of labour. Studies show that induction of labour at 39 weeks gestation with a favourable cervix could probably reduce caesarean section and reduce the stillbirth rate. By performing vaginal scans, we identified the subgroup of patients who were easily inducible

Risks: A vaginal scan was performed on the patients included in the study. Studies have shown that it is less painful than a digital vaginal examination. Patients may have a subjective feeling of more pain when compared to normal labour when labour is being induced. Patients who undergo induction of labour may perceive pain more than the expectant management group

Where is the study run from?

University Malaya Medical Centre (Malaysia)

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

From June 2017 to June 2022

Who is funding the study?

BKP Khas. University of Malaya research grant funding (Malaysia)

Who is the main contact?

Dr. Vallikkannu Narayanan, nvalli@um.edu.my

Contact information

Type(s)

Scientific

Contact name

Dr Vallikkannu Narayanan

ORCID ID

<http://orcid.org/0000-0003-3699-6535>

Contact details

University Malaya Medical Centre

Jalan Profesor Diraja Ungku Aziz

Kuala Lumpur

Malaysia

59100

+60 123040642

nvalli@um.edu.my

Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number

ClinicalTrials.gov number

Nil known

Secondary identifying numbers

2017523-5254

Study information

Scientific Title

Induction of labour at 39 weeks or beyond in nulliparous women with a sonographically favourable cervix: a randomised control trial

Acronym

ISOFC

Study objectives

We hypothesise that planned induction of labour from 39 weeks gestation in nulliparas with favourable cervixes compared to expectant management will result in higher patient satisfaction and no increase in the rate of caesarean section and probable benefits to the fetus in terms of reduction in still birth and neonatal morbidity.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved 08/08/2017, Medical Research Ethics Committee University Malaya Medical Centre (Lembah Pantai, 59100 Kuala Lumpur, Malaysia; +603 7949 3209/2251; ummc-mrec@ummc.edu.my), ref: 2017523-5254

Study design

Interventional randomized controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

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

Health condition(s) or problem(s) studied

Induction of labour at 39 weeks gestation

Interventions

Cervical length will be measured three times, and the shortest cervical length will be taken. Cervical length < 27 mm will be considered a short cervix. Women with a “sonographic short cervix” will then be randomised into scheduled labour induction as soon as practicable on the following weekday (or on reaching 39 weeks and beyond if assessed prior to 39 weeks) or standard expectant management. They will be randomly allocated into either arm by opening the lowest-numbered remaining sealed envelope containing the random allocation. Randomisation sequence will be generated in random blocks of 4 or 8 using a random number generator by an investigator not involved in recruitment or direct patient care. Women who are randomised into the intervention arm will be arranged for admission on the day of choice - no earlier than 39 week 0 days gestation. They will be instructed to attend at approximately 0800 hours on the planned day. Where possible, induction is by standard obstetric management after performing a bishop score. Women who are randomized into the expectant arm will be managed as per standard antenatal care protocol to be induced at 41 weeks unless interim issues. Maternal satisfaction scores will be assessed after delivery using the visual numerical rating scale and scored from 0-10.

Intervention Type

Procedure/Surgery

Primary outcome measure

1. Maternal satisfaction measured using a numerical rating scale after delivery
2. Delivery duration measured using measured using patient records at a single time point

Secondary outcome measures

1. Mode of delivery measured using patient records at a single time point
2. Admission to the neonatal intensive care unit (yes/no) measured using patient records at a single time point

Overall study start date

01/06/2017

Completion date

01/06/2022

Eligibility

Key inclusion criteria

1. Aged 18 years and above
2. Gestational age of 38 weeks to 39 weeks 6 days at enrolment
3. No other intervention currently required or anticipated
4. No medical contraindication to induction of labour.
5. Sonographically favourable cervix (cervical length less than 27 mm by vaginal scan)
6. Nulliparous
7. Singleton with live fetus
8. Cephalic presentation
9. Written informed consent
10. Willingness to participate in the trial

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Female

Target number of participants

179

Key exclusion criteria

1. Women with a known lethal fetal congenital abnormality
2. Previous uterine surgery or uterine injury
3. Indication for early or urgent delivery
4. Contraindication for vaginal delivery
5. Medical complications during pregnancy
6. Women who book late for antenatal care and have no dating scan performed before 22 weeks to provide an accurate expected delivery date

Date of first enrolment

01/05/2017

Date of final enrolment

01/06/2022

Locations

Countries of recruitment

Malaysia

Study participating centre

University Malaya Medical Centre

Lot 28, Jalan Professor Diraja Ungku Aziz

Lembah Pantai

Wilayah Persekutuan

Kuala Lumpur

Malaysia

59100

Sponsor information

Organisation

University of Malaya

Sponsor details

Department of Obstetrics and Gynaecology
University Malaya Medical Centre
Kuala Lumpur
Malaysia
50603
+60 (0)3-7949 4422 ext: 2059
grow@ummc.edu.my

Sponsor type

University/education

Website

<https://www.um.edu.my/>

ROR

<https://ror.org/00rzspn62>

Funder(s)**Funder type**

University/education

Funder Name

Universiti Malaya

Alternative Name(s)

University of Malaya, University Malaya, Malayan University, UM

Funding Body Type

Government organisation

Funding Body Subtype

Universities (academic only)

Location

Malaysia

Results and Publications**Publication and dissemination plan**

Planned publication in a high -impact peer-reviewed journal.

Intention to publish date

31/12/2023

Individual participant data (IPD) sharing plan

The datasets generated and/or analysed during the current study during this study will be included in the subsequent results publication.

IPD sharing plan summary

Other

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Participant information sheet	version 2	23/05/2017	05/10/2021	No	Yes