# Effect of nutritional and hand-hygiene educational programs on maternal anaemia and foetal birth weight

Submission date	Recruitment status	Prospectively registered
10/05/2010	No longer recruiting	Protocol
Registration date	Overall study status	Statistical analysis plan
27/05/2010	Completed	Results
Last Edited	Condition category	Individual participant data
27/05/2010	Pregnancy and Childbirth	Record updated in last year

## Plain English summary of protocol

Not provided at time of registration

# Contact information

## Type(s)

Scientific

#### Contact name

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#### Contact details

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# Additional identifiers

Protocol serial number EC 50/354-012

# Study information

Scientific Title

The effectiveness of nutritional and hand-hygiene educational programs on maternal anaemia and foetal birth weight in southern Thailand: a randomised controlled trial

## **Study objectives**

- 1. Nutritional and/or hand-hygiene programs can reduce the anaemia in pregnant women and improve foetal birth weight at delivery in soil-transmitted helminth (STH) endemic area.
- 2. Hand-hygiene program has synergistic effect to nutritional program to reduce anaemia in pregnant women and improve foetal birth weight in soil-transmitted helminth (STH) endemic area.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Ethics approval was obtained from the Ethics Committee of Faculty of Medicine, Prince of Songkla University, Songkhla, Thailand (reference no. EC 50/354-012), Ethic Committee of Ministry of Public Health (reference no. 9/2008)

## Study design

Randomised controlled trial

## Primary study design

Interventional

## Study type(s)

Prevention

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

STH infestation, maternal anaemia, foetal birth weight

## **Interventions**

1. Control: without any intervention

This group will not expose to any interventions and will receive normal routine standard of ANC.

2. Intervention 1: nutritional program

The 15 minutes flipchart on nutritional knowledge and practice consisted of four topics:

- 2.1. Importance of nutrition for mother and their foetus
- 2.2. Affect of malnutrition and further health problems
- 2.3. Kinds of food and adequate quantity for mother
- 2.4. Appropriate methods to choose and prepare food for cooking.
- 2. Intervention 2: hand hygiene program

The 15 minutes flipchart on hand-hygiene knowledge and practice consisted of four topics:

- 3.1. Epidemiology of STH and the effects on mother and baby
- 3.2. Important route of transmission
- 3.3. Important of hand hygiene for personal health and STH transmission
- 3.4. Correct methods of hand washing
- 4. Intervention 3: nutritional plus with hand hygiene program

The 30 minutes flipchart on nutritional and hand-hygiene knowledge

## Intervention Type

Other

#### Phase

Not Applicable

## Primary outcome(s)

- 1. Maternal anaemia, defined as haemoglobin <11g/dL (WHO criteria), measured at recruitment (12-20 weeks) and 32 weeks of gestation.
- 2. Foetal birth weight

## Key secondary outcome(s))

STH infestation:

Binary outcome is infested or not infested. If infested then the intensity and type of helminths is measured at recruitment (12-20weeks) and 3 month after recruitment.

## Completion date

31/12/2009

# **Eligibility**

## Key inclusion criteria

All pregnant women with a gestational age of twelve to twenty weeks, who had lived in Narathiwat province for at least one year and were attending the antenatal clinic in four of the study hospitals at first visit.

## Participant type(s)

Patient

## Healthy volunteers allowed

No

## Age group

Adult

#### Sex

**Female** 

## Key exclusion criteria

- 1. High-risk pregnancies such as severe anaemia of less than seven gm/dl
- 2. Heart disease
- 3. HIV positive/AIDS
- 4. Any mental problems

#### Date of first enrolment

01/01/2008

## Date of final enrolment

31/12/2009

# Locations

## Countries of recruitment

Thailand

Study participating centre Epidemiology Unit Songkhla Thailand 90112

# Sponsor information

## Organisation

Prince of Songkla University (Thailand)

## **ROR**

https://ror.org/0575ycz84

# Funder(s)

## Funder type

Research organisation

## **Funder Name**

Institute of Research and Development for Health of Southern Thailand (Thailand)

# **Results and Publications**

Individual participant data (IPD) sharing plan

# IPD sharing plan summary

Not provided at time of registration