

**TCTR ID : TCTR20250202002**

**Overall Recruitment Status** : Active, not recruiting

**OTHER ID :**

**Retrospective registration**  
This protocol was registered after enrollment of the first participant.

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**Tracking Information**

First Submitted Date : 15 January 2025  
First Posted Date : 02 February 2025  
Last Update Posted Date : 19 May 2026

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**Title**

Public Title : Adverse maternal and neonatal outcomes in extremely young mothers (17 years old or younger) versus women aged 20 to 35 years old: a retrospective cohort study in Thailand  
Acronym : Adolescent pregnancy  
Scientific Title : Comparative study of adverse pregnancy outcomes in extremely young mothers under 17 years and adults aged 20 to 35 years  
Sponsor ID/ IRB ID/ EC ID : COA 1003/2024  
Registration Site : Thai Clinical Trials Registry  
URL : <https://www.thaiclinicaltrials.org/show/TCTR20250202002>  
Secondary ID : No Secondary ID

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**Ethics Review**

1. Board Approval : Submitted, approved  
Approval Number : 1003/2024  
Date of Approval : 26 December 2024  
Board Name : Human Research Protection Unit Faculty of Medicine Siriraj Hospital Mahidol Univesity  
Board Affiliation : Mahidol university,Thailand  
Board Contact : Business Phone : 024192667 Ext. No Data  
Business Email : siethics@mahidol.ac.th  
Business Address : Human research protection unit. Faculty of Medicine Siriraj Hospital, Mahidol University His Majesty the King's 80th Birthday Anniversary 5th December 2007 Building 2nd floor Room 210

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**Sponsor**

Source(s) of Monetary or Material Supports : Faculty of Medicine Siriraj Hospital Mahidol Univesity  
Study Primary Sponsor : Human research protection unit  
Responsible Party : Name/Official Title : Jirayus Pattanamane  
Organization : Faculty of Medicine Siriraj Hospital Mahidol Univesity  
Phone : 0831062263 Ext. No Data  
Email : jirayus.pa@gmail.com  
Study Secondary Sponsor : No Study Secondary Sponsor

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**Protocol Synopsis**

Protocol Synopsis : The outcomes and complications of adverse pregnancies in very young women are an urgent public health issue. Although previous research has highlighted the risks associated with adolescent pregnancies, there is considerable variability due to differing national contexts. In Thailand, research on this issue is limited, and there are significant gaps in understanding how the age of women, especially those under 17, influences pregnancy outcomes and the unique healthcare needs of this group. We will conduct a retrospective chart review to analyze adverse pregnancy outcomes, comparing pregnancies of very young mothers with those of adult mothers.

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**URL not available**

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**Health Conditions**

Health Condition(s) or Problem(s) Studied : Comparative study of adverse pregnancy outcomes in extremely young mothers under 17 years and adults aged 20 to 35 years Teenage pregnancy Adolescent pregnancy Adverse pregnancy outcomes  
Keywords : Teenage pregnancy Adolescent pregnancy Adverse pregnancy outcomes Comparative studies in teenage

pregnancy Adverse maternal outcomes Maternal anemia Pregnancy induced hypertension CHT  
Preeclampsia Eclampsia GDM Gestational diabetes melitus Preterm birth Adverse neonatal outcomes  
Neonatal death Stillbirth Early neonatal death Low birth weight Structural abnormalities NICU admission

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**Eligibility**

Inclusion Criteria : 1.pregnancy age group <= 17 years  
2.pregnancy age group 20-35 years  
PS: The age of pregnant women calculated up to their expected delivery date.

Gender : Female

Age Limit : Minimum : 10 Years Maximum : 35 Years

Exclusion Criteria : 1.Women who could not provide data according to the case record form  
2.Pregnant women referred to other hospitals for delivery

Accept Healthy Volunteers : No

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**Status**

Overall Recruitment Status : Active, not recruiting

Key Trial Dates Study Start Date (First enrollment) : 06 January 2025 Indicate Type : Actual  
Completion Date (Last subject, Last visit) : 06 January 2027 Indicate Type : Anticipated  
Study Completion Date : 06 March 2027 Indicate Type : Anticipated

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**Design**

Study Type : Observational

Primary Purpose : Health Services Research

Number of Groups : 2

Study Endpoint Classification : N/A

Sample size

Planned sample size : 2310

Actual sample size at study completion :

Observation Group 1

Group name : Extremely teenage pregnancy

Group Description : pregnancy age group less than or equal to 17 years (The age of pregnant women calculated up to their expected delivery date)

Observation Group 2

Group name : Adult pregnancy

Group Description : pregnancy age group 20-35 years (The age of pregnant women calculated up to their expected delivery date)

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**Outcome****Primary Outcome**

1. Outcome Name : Maternal anemia

Metric / Method of measurement : hemoglobin level below 11 g/dl at third trimester

Time point : since third trimester(GA at least 28wk) until date of delivery

2. Outcome Name : Pregnancy induced hypertension

Metric / Method of measurement : BP more or equal 140/90 mmHg when repeated 2 times in 4 hr

Time point : after GA 20 wk until date of delivery

3. Outcome Name : Gestational diabetes mellitus

Metric / Method of measurement : Criteria for diagnosis GDM according from Carpenter & Coustan

Time point : since ANC until date of delivery

4. Outcome Name : Preterm birth

Metric / Method of measurement : GA below 37 wk at date of delivery

Time point : date of delivery

**Secondary Outcome**

1. Outcome Name : The prevalence of pregnant women across different age groups during the study period  
Metric / Method of measurement : The number of pregnant women in the same age group divided by the total number of pregnant women during the study period, multiplied by 100  
Time point : 2557-2566
2. Outcome Name : The trend in the number of pregnant women compared across each year  
Metric / Method of measurement : The trending graph compares the number of pregnant women across each year  
Time point : 2557-2566
3. Outcome Name : The trends and prevalence of adverse pregnancy outcomes among women who are either too young and adult, compared across each year  
Metric / Method of measurement : The trending graph compares the prevalence of adverse pregnancy outcomes between very young women and adults (20 to 35 years) for each year  
Time point : 2557-2566

## Location

### Section A : Central Contact

Central Contact	First Name : Jirayus	Middle Name :	Last Name : Pattanamane
	Degree :	Phone : 0831062263 Ext. : No Data	Email : jirayus.pa@gmail.com
Central Contact Backup	First Name : Saifon	Middle Name :	Lastname : Chawanpaiboon
	Degree : Associate Professor	Phone : 0894436106 Ext. : No Data	Email : saifon.cha@mahidol.ac.th

### Section B Facility Information and Contact

1. Site Name : Faculty of Medicine Siriraj Hospital Mahidol University  
City : Bangkoknoi State/Province : Bangkok Postal Code : 10700  
Country : Thailand Recruitment Status : Active, not recruiting

<b>Facility Contact</b>	First Name : Jirayus	Middle Name :	Last Name : Pattanamane
	Degree :	Phone : 0831062263 Ext. : No Data	Email : jirayus.pa@gmail.com

<b>Facility Contact Backup</b>	First Name : Saifon	Middle Name :	Last Name : Chawanpaiboon
	Degree : Associate Professor	Phone : 0894436106 Ext. : No Data	Email : saifon.cha@mahidol.ac.th

<b>Investigator Name</b>	First Name : Jirayus	Middle Name :	Last Name : Pattanamane
	Degree :	Role : Principal Investigator	

### Section C : Contact for Public Queries (Responsible Person)

	First Name : Jirayus	Middle Name :	Last Name : Pattanamane
	Degree : No Data	Phone : 0831062263 Ext. : No Data	Email : jirayus.pa@gmail.com
	Postal Address : Faculty of Medicine Siriraj Hospital, Mahidol University 2 Wanglang Road Bangkoknoi		
	State/Province : Bangkok	Postal Code : 10700	
	Country : Thailand	Official Role : Study Principal Investigator	
	Organization Affiliation : Mahidol University		

### Section D : Contact for Scientific Queries (Responsible Person)

	First Name : Jirayus	Middle Name :	Last Name : Pattanamane
	Degree : No Data	Phone : 0831062263 Ext. : No Data	Email : jirayus.pa@gmail.com
	Postal Address : Faculty of Medicine Siriraj Hospital, Mahidol University 2 Wanglang Road Bangkoknoi		
	State/Province : Bangkok	Postal Code : 10700	
	Country : Thailand	Official Role : Study Principal Investigator	
	Organization Affiliation : Mahidol University		

## Deidentified Individual Participant-level Data Sharing

Plan to share IPD : Yes

Plan description : IPD and documents will be available for sharing 1 year after publication . Access to the IPD and documents will be open on the IPDShare website with registration. The information will be freely available but can be used only for do the medical research.

## Publication from this study

MEDLINE Identifier : 41825404  
URL link to full text publication : <https://doi.org/10.1016/j.midw.2026.104771>