



មជ្ឈមណ្ឌលជាតិគាំពារមាតា និងទារក

National Maternal and Child Health Center

ទិវាសង្ស័យសាស្ត្រ សម្ព័ន្ធ និងរោគស្រ្តី លើកទី៤

ប្រធានបទ៖ «រួមគ្នាបង្កើនគុណភាពសេវាព្យាបាល ថែទាំ និងសង្គ្រោះមាតា និងទារក »

Assessment in placenta accreta spectrum

A case report on central placenta previa with percreta
and two prior cesarean scars — diagnosis, surgical management, and outcome.



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Presented by Doctor ROM PISETH, MD

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នៅមជ្ឈមណ្ឌលជាតិគាំពារមាតា និងទារក

What we'll cover

A structured walk-through from clinical background to surgical outcome and lessons learned.

01

Objective

Why this case matters

02

Introduction

PAS definition, types & burden

03

Case Presentation

History, exam & workup

04

Surgical Technique

4-step operative approach

05

Outcome & Recommendation

Results, follow-up & Take-home messages

01 — OBJECTIVE

Why this case matters

1

Mother & Child Safety

Protect maternal and fetal wellbeing as the first priority in every decision.

2

Less Blood Loss

Minimize hemorrhage through planned, anatomy-guided surgical steps.

3

Fast Recovery

Support a smoother postoperative course and earlier discharge.

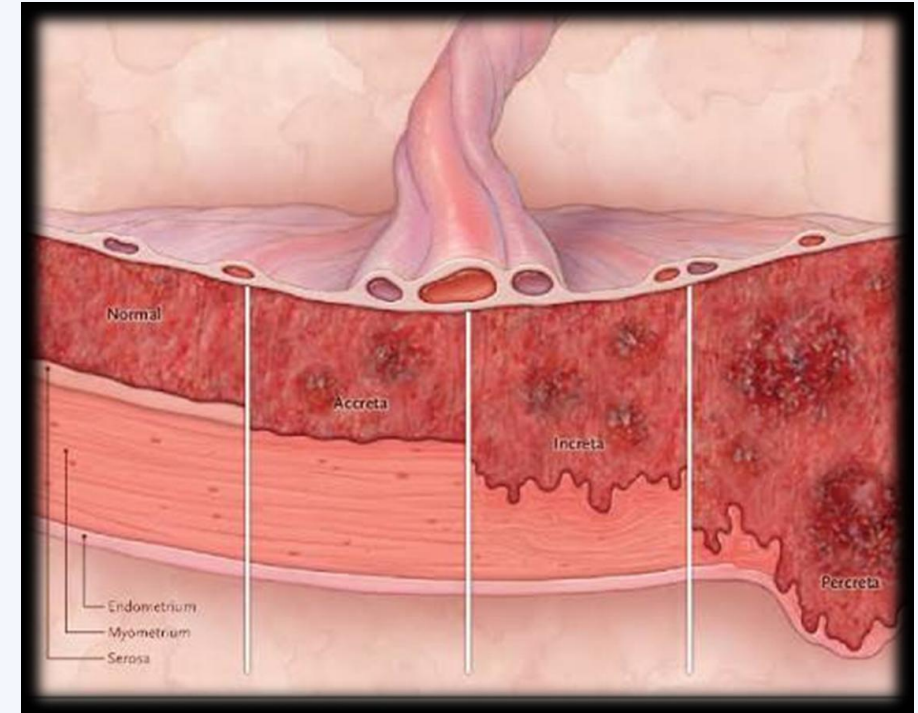
02 — INTRODUCTION

Placenta Accreta Spectrum (PAS)

Abnormal trophoblast invasion of part or all of the placenta into the myometrium of the uterine wall.

THREE FIGO TYPES

- **Accreta** — Villi attach to the myometrium without invading the muscle.
- **Increta** — Villi invade deeply into the myometrium.
- **Percreta** — Villi penetrate through the uterine serosa, sometimes into nearby organs.



Normal implantation vs. accreta, increta and percreta

02 — INTRODUCTION

A rare but high-stakes diagnosis

18

/ 11,192 deliveries

PAS cases recorded at the
National Maternal and Child
Health Center in 2025

800–1,000

mL average blood loss

Reported in the United States,
France, China, India and Japan

Why it matters

- Leading cause of massive obstetric hemorrhage
- Rising with increasing cesarean rates
- Requires early antenatal recognition
- Best managed by a multidisciplinary team

03 — CASE PRESENTATION

Chief Complaint & Admission

PATIENT

37-year-old woman, G4P3A0

REFERRAL

Private clinic, Takeo — term pregnancy with suspected placenta accreta

WORKING DIAGNOSIS

Placenta previa + placenta percreta on two prior uterine scars, 39 weeks G.A.

ADMISSION

17.05.2025, 10:50, Triage Unit

VITAL SIGNS ON ADMISSION

Blood Pressure

120/70 mmHg

Pulse

80 bpm

O₂ Saturation

98% RA

Temperature

36.8 °C

Uterine Fundal Height

30 cm

Fetal Heart Rate

150 bpm

03 — CASE PRESENTATION

Past Obstetrical History

37-year-old woman, gravida 4 para 3 abortus 0



03 — CASE PRESENTATION

Past Medical & Surgical History

PAST MEDICAL HISTORY

- No diabetes
- No hypertension
- No tuberculosis
- No cardiac disease
- No HIV or syphilis

PAST GENERAL SURGERY

No surgery other than the two prior cesarean sections.

Allergy, Medication & Social History

ALLERGY

Unknown

CURRENT MEDICATION

Ferrous – folic acid tablet

SOCIAL HISTORY

**No smoking, no alcohol
use**

Physical Examination

General Appearance	Alert
Vital Signs	120/70 mmHg · Pulse 80 bpm · O ₂ Sat 98% RA · Temp 36.8 °C
HEENT	Normal
Lung	Clear to auscultation
Heart	No pathology found

Obstetric Examination

Uterus	Gravid, fundal height 30 cm, previous Pfannenstiel skin incision scar ≈ 13 cm
Contractions	None; longitudinal lie, cephalic presentation
Fetal Heart Rate	156 bpm
Cervix	Closed
Vaginal Bleeding	None

Paraclinical Exam — Obstetric Ultrasound

រាជធានីភ្នំពេញ, ថ្ងៃទី 17 ខែ 05 ឆ្នាំ 2025 11:12:37

COMPTE-RENDU IMAGERIE MEDICAL

Nome et prénom: [REDACTED]

អាយុ/Age: 37ឆ្នាំ

ភេទ/Sex: ស្រី (F)

ID Card: [REDACTED]

Address: PP

Demende par:

ECHOGRAPHIE OBSTETRICALE

Indication:

ATCD: UBC 2021,2023

DDR: Inconnue

- Nombre du foetus: 01

- Position du foetus (Présentation): Céphalique.

- Movements actif foetal (+), Activités cardiaques (+), FC : 154bpm.

- Biométries fœtaux : BIP = 91mm, FL = 68mm, Poids estimé = 3100g (+-10%).

- Liquide Amniotique : Index 14cm, aspect claire.

- Placenta : Antérieur grade II, BIE type 3 avec des lacunes et ligne utéro-placentaire au niveau cicatrice césarienne est irrégulier avec hypervascularisation transition au cette région.

- Pas circulaire du cordon.

- Morphologie foetal : non identifiable.

CONCLUSION :

Placenta antérieur BIE type 3 avec évidence percréta chez une grossesse unique évolutive à terme (de 39SA, TE)

KEY FINDINGS

FETUS

Single, cephalic presentation, FHR 154 bpm

BIOMETRY

BIP 91 mm, FL 68 mm; estimated weight 3,100 g (±10%)

AMNIOTIC FLUID

Index 14 cm, clear

PLACENTA

Anterior grade II, lacunar spaces (BIE type 3) with irregular utero-placental line and hypervascularity over the cesarean scar

Paraclinical Exam — Laboratory (17.05.2025)

Parameter	Value	Parameter	Value
Hemoglobin	10.4 g/dL	AST	19
Hematocrit	32.1%	ALT	13
Platelets	207 × 10 ³ /μL	Urea	10
Blood Group	B+	Creatinine	0.6
TP / aPTT	98% / 25 sec	Proteinuria	Negative

ECG

Normal

Electrolytes: normal

Diagnosis

Central placenta previa with placenta percreta on two prior cesarean scars, in a term pregnancy at 39 weeks gestational age.

Management Plan

1

Consent

Informed consent form completed with the patient and family

2

Indication

Cesarean section + total hysterectomy, with conservation of the annexes

3

Blood Preparation

5 units of red cell concentrate prepared and on hand before surgery

Operative Technique — 4 Steps

Abdominal approach: midline incision, 1 cm above the umbilicus

1 Deliver the Fetus

Fundal uterine incision with fetal extraction avoiding placental rupture.
Female newborn, 2,750 g, Apgar 7/8/9. Cord ligated with Vicryl 1/0;
hysterotomy closed with Vicryl 1/0, simple suture × 5 points.

2 Open the Pararectal Space (Latzko)

Two goals: ligation of the hypogastric artery and lateral dissection of the ureter.

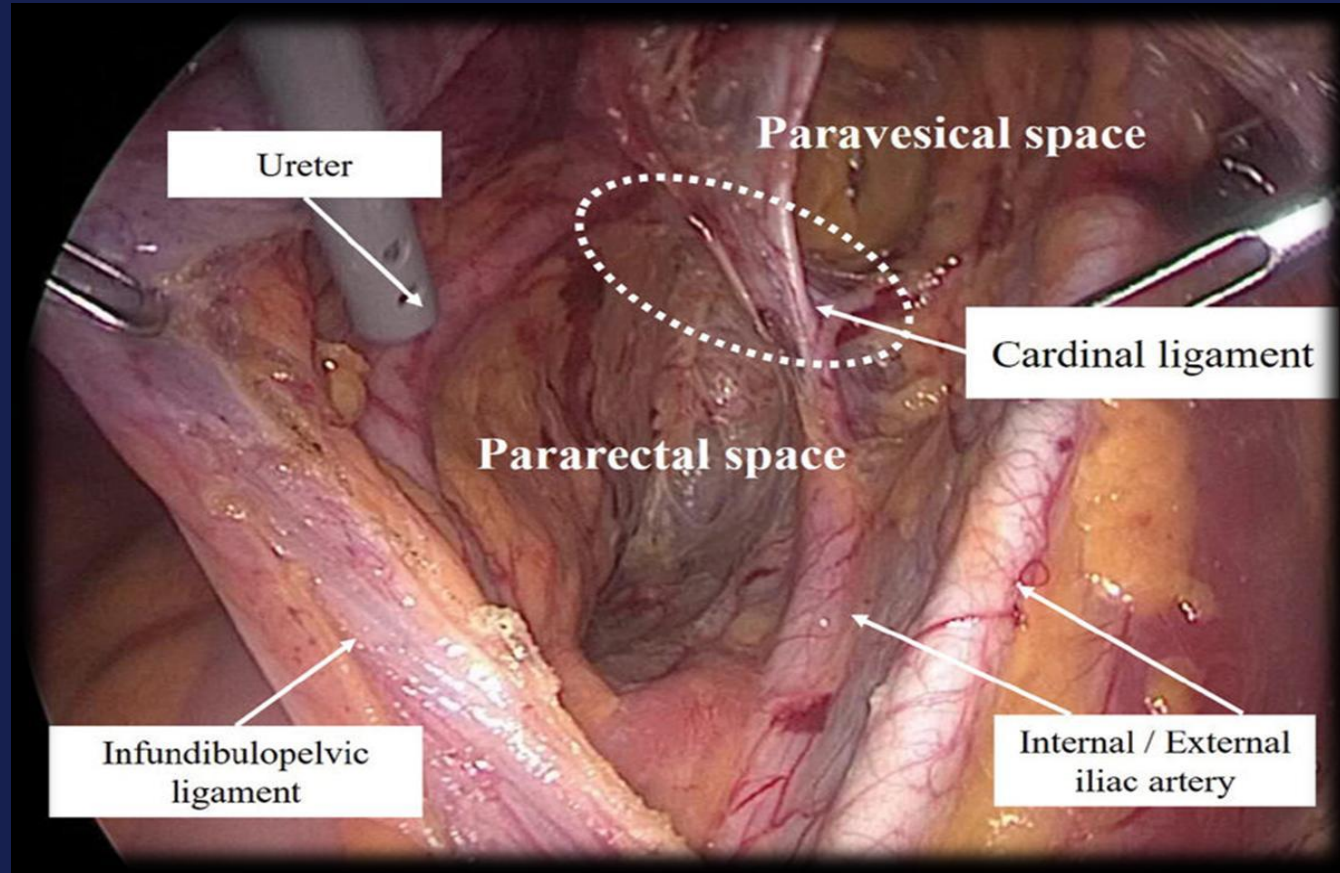
3 Dissect the Cervico-Vesical Fascia

Slow dissection with low diathermy current to push the bladder down to the lower cervix.

4 Total Hysterectomy

Definitive hemostatic control of the invaded uterus with conservation of the annexes.

Surgical Anatomy



LANDMARKS

- Ureter
- Paravesical space
- Cardinal ligament
- Pararectal space
- Infundibulopelvic ligament
- Internal / External iliac artery

Intraoperative Summary

800 mL

Estimated blood loss

2 units

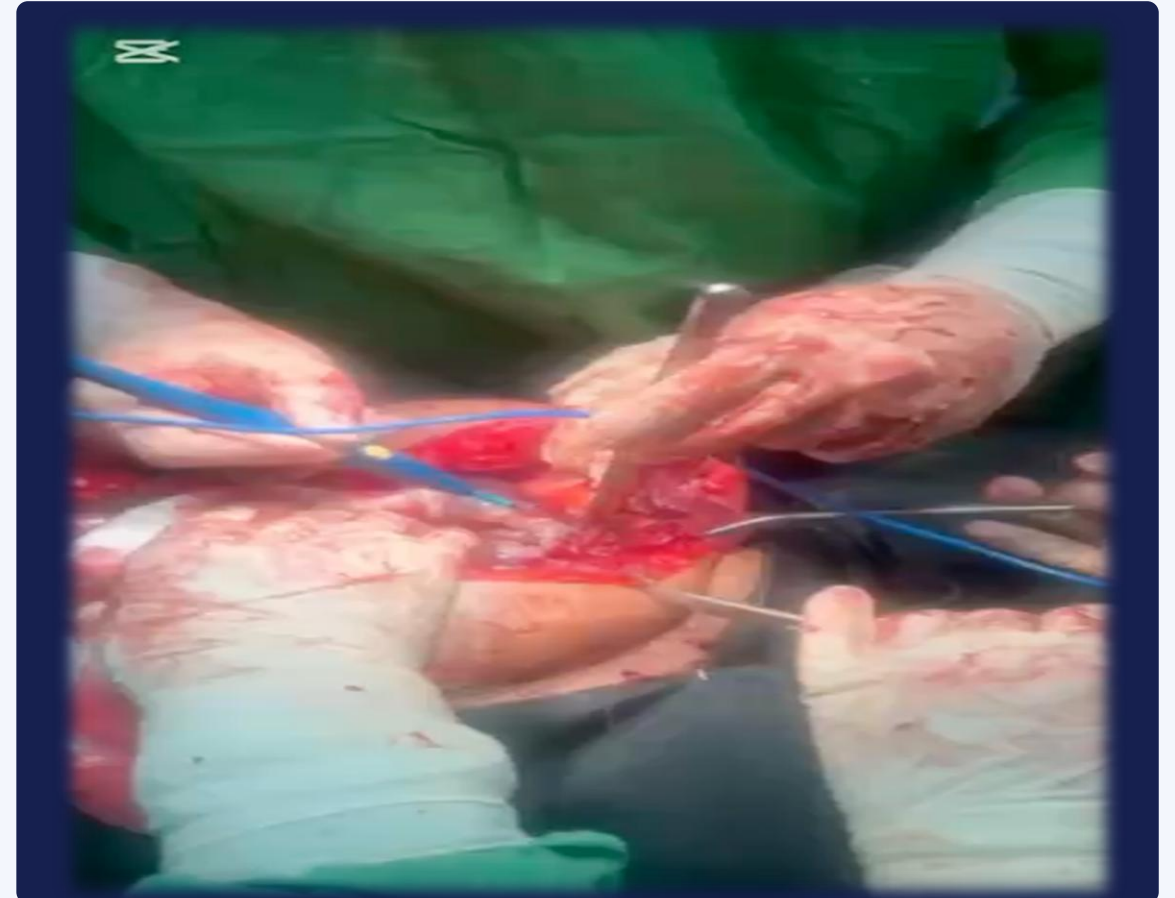
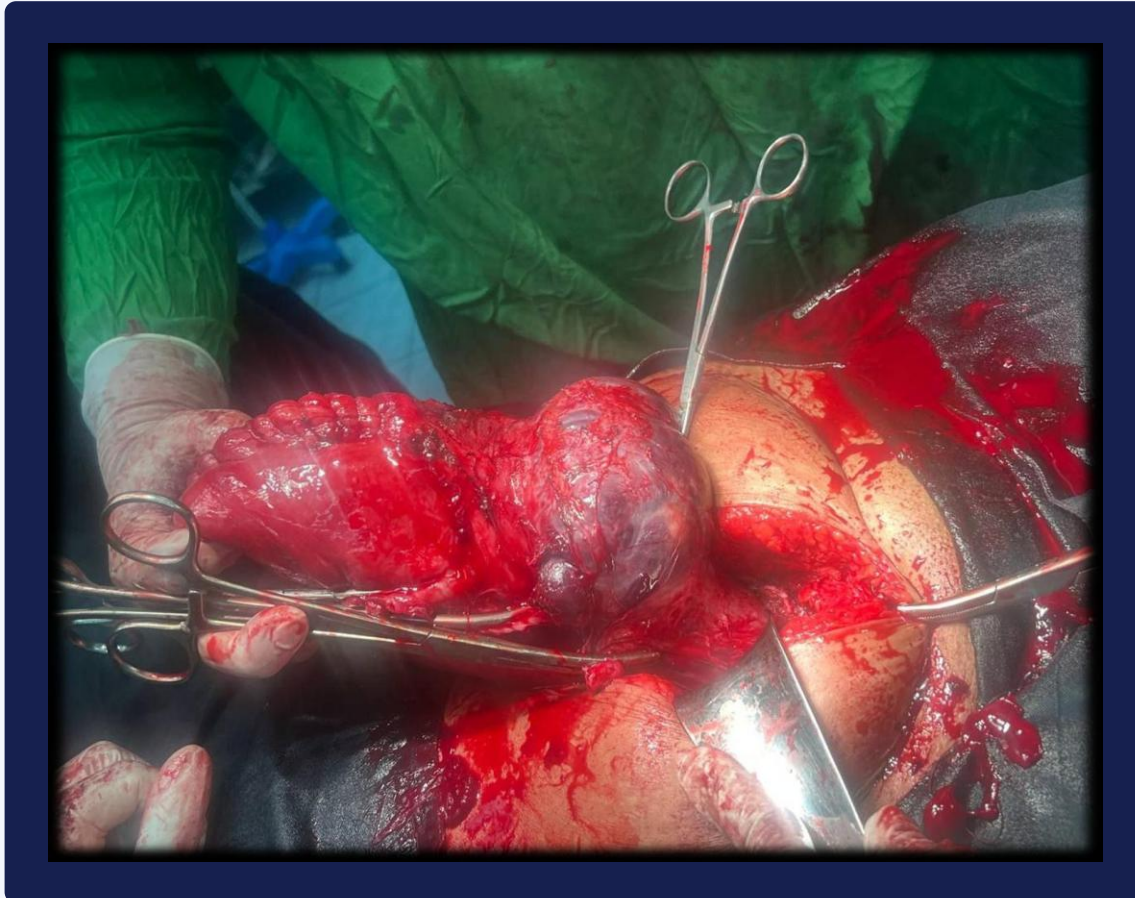
Red cell transfusion during operation

3 h 30 min

Total duration of operation

Intraoperative Findings

Clinical photographs — for professional medical audiences



Postoperative Laboratory Results

Result dated 20 May 2025

HEMOGLOBIN 11 g/dL	HEMATOCRIT 33.3%	PLATELETS $173 \times 10^3/\mu\text{L}$
UREA 23	CREATININE 0.5	ALBUMIN 27.8 g/L (low)

Postoperative Evolution — Day 1

20 May 2025

BP	HR	Temp	SpO ₂
116/78mmH	87/min	36.4°C	99% RA

CLINICAL EXAM

- General appearance alert; conjunctiva mild redness
- Lungs and heart normal; abdomen soft, bowel sounds present
- Wound pain 2/10 (VAS); no vaginal bleeding
- Urinary catheter normal, yellow; drain: minimal serosanguinous fluid

MEDICATIONS

- IV Fluids
- Antibiotics
- Pain-killer
- Vitamins

Postoperative Evolution — Day 2

21 May 2025

BP	HR	Temp	SpO ₂
124/63mmHg	78/min	36.8°C	99% RA

CLINICAL EXAM

- General condition good; conjunctiva mild redness
- Soft abdomen; lungs and heart normal
- Wound pain 2/10 (VAS); urine output 2,600 mL/24h, yellow
- Flatus present; stools not yet passed

MEDICATIONS

- IV Fluids
- Antibiotics
- Pain-killer
- Vitamins

Outcome & Discharge

Final Diagnosis

Two prior cesarean sections + placenta previa with placenta percreta in a term pregnancy — post-cesarean total hysterectomy, day 3, hemodynamically stable.

Passed to

Maternity Department

for continued postoperative management

Discharged home

Day 7 — 26 May 2025

Recommendations

1 Multidisciplinary Team

A coordinated team — obstetrics, anesthesia, urology and blood bank — is needed for PAS management.

2 Blood Bank Readiness

Ensure adequate cross-matched blood products are available before surgery.

3 Hypogastric Artery Ligation

Perform bilateral hypogastric artery ligation before hysterectomy.

4 Ureteric Dissection

Dissect the ureter laterally before proceeding with hysterectomy.

TAKE-HOME MESSAGES

Placenta Accreta Spectrum: Key Messages

1

Assess risk factors early

2

Confirm the diagnosis and extent of PAS before surgery whenever possible

3

Plan delivery (34-36 weeks GA) and surgery carefully

4

Prepare blood and a multidisciplinary team

5

Use a systematic surgical approach to reduce complications

6

Postoperative monitoring is essential for maternal recovery

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Thank You for Your Attention

Dr. Rom Piseth, MD • National Maternal and Child Health Center