



Department:	Obstetrics and Gynecology		
Document:	Multidisciplinary Policy and Procedure		
Title:	Management of Antepartum Hemorrhage		
Applies To:	All Obstetrics and Gynecology Staff		
Preparation Date:	January 08, 2025	Index No:	L&D-MPP-001
Approval Date:	January 22, 2025	Version :	2
Effective Date:	February 22, 2025	Replacement No.:	L&D-MPP-001(1)
Review Date:	February 22, 2028	No. of Pages:	9

1. PURPOSE:

- 1.1 To ensure prompt assessment initiation and care of patient with antepartum hemorrhage.

2. DEFINITIONS:

- 2.1 Is defined as bleeding from or in to the genital tract, occurring from 24 weeks of pregnancy and prior to the birth of the baby. The most important causes of APH are placenta previa and placental abruption, although these are not the most common.

3. POLICY:

- 3.1 All women over 24 weeks with history of vaginal bleeding (+1 or more) should be admitted to the labor room. No digital vaginal examination is done to rule out placenta previa.
- 3.2 Cause: Bleeding from the genital tract after 24 weeks gestation may be due to:
- 3.2.1 Placenta Previa.
 - 3.2.2 Placenta Abruptio.
 - 3.2.3 Local condition of cervix, vaginal and vulva.
 - 3.2.4 Undetermined causes.
 - 3.2.5 Vasa Previa.
 - 3.2.6 Consider other rare lesions e.g. hemorrhoids, silent rupture uterus if patient with previous caesarean.

4. PROCEDURE:

- 4.1 On admission:
- 4.1.1 Do proper admission assessment as per (P&P admission to L&D).
 - 4.1.2 Obtain a detailed history (noting precipitating factors and amount of blood loss), perform a general examination, check vital signs and palpate the abdomen to note areas of uterine tenderness and hypertonicity.
 - 4.1.3 Auscultate fetal heart and perform a CTG where appropriate.
 - 4.1.4 Check scans report for placental site and repeats it to exclude placental abruption.
 - 4.1.5 Perform gentle speculum examination, to exclude local causes.
 - 4.1.6 Extract blood for complete blood count (CBC) and group and save serum (Give anti-D if Rheus Negative).
 - 4.1.7 Give steroids if gestation is <34. (Refer to P&P of PTL).
 - 4.1.8 Administer anti-D if Rheus (D) negative.
 - 4.1.9 Inform NICU.
 - 4.1.10 Consent for caesarean and even for hysterectomy should be signed by patient and her husband.
- 4.2 Management of minor antepartum hemorrhage (History of mild APH with minimal blood loss on admission +1).

- 4.2.1 Transfer from delivery unit to antenatal ward if no signs of major bleeding, or significant uterine tenderness or fetal distress.
- 4.2.2 If at term consider induction of labor (discuss with physician).
- 4.3 Management of moderate antepartum hemorrhage: Indicates significant vaginal bleeding or minor bleeding with significant constant uterine tenderness but no signs of imminent maternal shock or fetal distress.
 - 4.3.1 Intravenous line G14 cannula with normal saline (0.9%) and keep the patient fasting and ready for OR if needed at any time.
 - 4.3.2 CBC group and save serum, renal function test and coagulation profile and give Anti-D (if Rhesus negative), liver function test.
 - 4.3.3 Fix indwelling urinary catheter for accurate monitoring of urinary output.
 - 4.3.4 Record observation on her chart and measure all blood loss accurately (consider weighing soaked linen) keep all pads for review.
 - 4.3.5 Discuss the case with consultant/ senior registrar.
 - 4.3.6 Delivery should be effected.
 - 4.3.7 If no evidence of placenta previa, the cervix is favorable and there is no fetal distress, induction of labor by amniotomy and oxytocin may be appropriate. Labor often proceeds rapidly in the event of antepartum hemorrhage.
 - 4.3.8 There should be early recourse to caesarean section if blood loss increases or if there are subtle signs of maternal shock e.g. increasing tachycardia or fetal distress.
 - 4.3.9 The patient should be closely monitored on the labor ward until her condition is satisfactory. Observation continued and documented in the chart.
- 4.4 Management of major antepartum hemorrhage:
 - 4.4.1 It can be defined by blood loss ($\geq 1500\text{ml}$) and or vital signs:
 - 4.4.1.1 Disturbance of conscious state.
 - 4.4.1.2 Systolic pressure $< 100\text{mmHg}$.
 - 4.4.1.3 Pulse > 120 beats per minutes.
 - 4.4.1.4 Reduce peripheral perfusion.
 - 4.4.2 Think and act quickly. In particular, commence resuscitation measures of shock, send more help urgently, monitor and investigate.
 - 4.4.2.1 Start and IV infusion and infuse IV fluids.
 - 4.4.2.1.1 Start an IV Infusion (two if the woman is in shock) using a largebore (G16 or largest available) cannula or needle.
 - 4.4.2.1.2 Infuse IV fluids (normal saline or ringer's lactate) at a rate appropriate for the woman's condition.
 - 4.4.2.2 Beware of large concealed abruptions, where the revealed vaginal bleeding may be minimal.
 - 4.4.2.3 In arriving at a diagnosis, remember:
 - 4.4.2.3.1 A hard "woody" uterus is pathognomonic of placental abruption.
 - 4.4.2.3.2 An engage vertex almost excludes a major degree of placenta previa.
 - 4.4.2.4 Always inform consultant on call as early as possible to discuss the management.
 - 4.4.2.4.1 If FHR abnormal, scan to exclude placenta previa. If no placenta previa, and in advanced 1st stage, consider ARM and vaginal delivery. Otherwise urgent transfer for caesarean section or EUA.
 - 4.4.3 Management depend on fetal condition, causes of APH, extent of bleeding and gestational age.
 - 4.4.3.1 In case of placenta previa:
 - 4.4.3.1.1 > 37 weeks, deliver by caesarean section.
 - 4.4.3.1.2 < 34 weeks: give dexamethasone 12mg IM for two doses.
 - 4.4.3.1.3 Further management will depend on extent of blood loss and gestational age.
 - 4.4.3.2 In case of abruption placenta: if > 37 weeks, induction of labor if fetal well-being allows or LSCS if not.

- 4.4.3.2.1 If <34 weeks, give dexamethasone 12mg IM for two doses and monitor closely both fetal and maternal condition.
- 4.4.3.2.2 If between 34–37 weeks gestation, discuss with physician and paediatrician.
- 4.4.3.2.3 If viable fetus, do vaginal examination if the cervix is not fully dilated or not nearly fully, deliver by LSCS.
- 4.4.3.2.4 Nearly fully dilated may be allowed to deliver vaginally if the CTG is good quality and reassuring and patient progress rapidly.
- 4.4.3.2.5 If the cervix is fully dilated and delivery is imminent, allow spontaneous, vaginal delivery, if not imminent assist with forceps or ventose.
- 4.4.3.2.6 In the event of fetal death mode of delivery is to be decided by the consultant.
- 4.4.3.2.7 Induction of labor with very careful observation of maternal condition may be appropriate if the maternal condition is stable and if labor progresses rapidly.
- 4.4.3.2.8 Even if the fetus is dead immediate caesarean section may be preferable UNLESS the cervix is found to perform an amniotomy.
- 4.4.3.2.9 A caesarean section may still be necessary unless progress of labor is rapid.
- 4.4.3.2.10 Decision for a vaginal delivery will be considered with an overall view of the patient's clinical scenario.
- 4.4.3.2.11 If there has been an abruption extensive enough to result in fetal death the patient will always require at least 4 units of blood whatever the initial haemoglobin level and this should be given as soon as the cross match is completed.
- 4.4.4 Clotting studies prothrombin time, partial prothrombin time, fibrinogen degradation product (PT, PTT, and FDP) should be repeated every 4 hours for the first 12 hours.
- 4.4.5 Further management of fluid replacement will depend on the clinical condition.
- 4.5 Following delivery:
 - 4.5.1 Recognize increased risk of PPH.
 - 4.5.2 Administer ergometrine 0.5mg IM and commence an infusion of oxytocin 5 units in 500cc normal saline over 4 hours.
 - 4.5.3 Examine placenta for:
 - 4.5.3.1 Completeness.
 - 4.5.3.2 Any area of abruption.
 - 4.5.3.3 Associated pathological features e.g. abnormal degree of calcification.
 - 4.5.3.4 Send for histopathology.
 - 4.5.3.5 CTG.
 - 4.5.3.6 Partogram.

5. MATERIALS AND EQUIPMENT:

N/A

6. RESPONSIBILITIES:

- 6.1 Physician
- 6.2 Nurses
- 6.3 Midwife



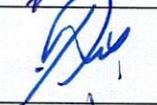
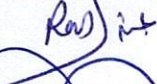



7. APPENDICES:

- 7.1 Principles of Management of Massive APH
- 7.2 The Principle of the Fluid Replacement and Administration of Blood Products
- 7.3 General Consent
- 7.4 Surgical and Medical Interventional Procedure

8. REFERENCES:

- 8.1 Integrated management of pregnancy & childbirth. Managing Complications in Pregnancy and Childbirth, section 1—symptoms, vaginal bleeding in later pregnancy and labor. A guide for doctors and midwives. WHO/ RHR/ 007, 2003.
- 8.2 Hoefmeyer GJ, Mohlala BK, (2001). Hypovolemic Shock. Ballieres Best Pract Res Clin Obstet Gyneco/ 15645-662.
- 8.3 Royal College of Obstetricians and Gynecologist. RCOG Green Top Guidelines: The management of the Ante-partum haemorrhage. Guideline no. 63, 1st edition London: RCOG, November, 2011.
- 8.4 Guidelines for Obstetrics & Gynecology, Ministry of Health 2013.
- 8.5 CBAHI Standard 3rd Edition 2016.

9. APPROVALS:

	Name	Title	Signature	Date
Prepared by:	Dr. Abdalla Mohamed Albasha	Obstetrician and Gynecologist		January 08, 2025
Reviewed by:	Dr. Mohannad Yaghmour	Head of the Department		January 09, 2025
Reviewed by:	Ms. Awatif Hamoud Al - Harbi	IPCD Director		January 12, 2025
Reviewed by:	Mr. Sabah Turayhib Al - Harbi	Director of Nursing		January 12, 2025
Reviewed by:	Mr. Abdulelah Ayed Al - Mutairi	QM&PS Director		January 13, 2025
Reviewed by:	Dr. Thamer Naguib	Medical Director		January 15, 2025
Approved by:	Mr. Fahad Hezam Al - Shammari	Hospital Director		January 22, 2025

Appendix 1:

Principles of Management of Massive APH (blood loss greater than 1000ml and/ or signs of clinical shock)

Personnel required:

- Call experienced midwife (in addition to midwife in charge).
- Call obstetric middle grade and alert physician.
- Call Anesthetic middle grade and alert physician.
- Alert physician clinical hematologist on call.
- Alert blood transfusion laboratory.
- Call porters for delivery of specimens/ blood
- Designate one member of the team to record events, fluids, drugs and vital signs.

Initial management:

Initial management should follow the ABCD pathway.

A and B- assess airways and breathing.

A high concentration of oxygen (10–15 liters/ minutes) via face mask should be administered.

C-evaluate circulation.

Establish two G14 intravenous lines; a 20 ml blood sample should be taken and sent for diagnostic tests, including full blood count and assessment of FMH if RhD-negative, coagulation screen, urea and electrolytes and cross match (4 units).

D-assess the fetus and decide on delivery.

The four pillars of management:

- Communication between all members of the multidisciplinary team.
- Resuscitation (See Appendix 2).
- Monitoring and investigation.
- Arrest bleeding by arranging delivery of the fetus.

Appendix 2:

The Principle of the Fluid Replacement and Administration of Blood Products.

Basic measures for hemorrhage up to 1000ml with no clinical shock:

- Intravenous access (G14 cannula x 1).
- Commence.

Full protocol for massive hemorrhage (blood loss >1000ml or clinical shock):

- Assess airway.
- Assess breathing.
- Evaluate circulation.
- Oxygen by mask at 10–15 liters/ minute.
- Intravenous access (G14 cannula x 2).
- Position left lateral tilt.
- Keep the woman warm using appropriate available measures.
- Transfuse blood as soon as possible.
- Until blood is available, infuse up to 3.5 liters of warmed crystalloid Hartmann's solution (2 liters) and/ or colloid (1– 2 liters) as rapidly as required.
- The best equipment available should be used to achieve rapid warmed infusion of fluids.
- Special blood filters should not be used, as they slow infusions.

Fluid Therapy and blood product transfusion:

Crystalloid	Up to 2 liters Hartmann's solution.
Colloid	Up to 1–2 liters colloid until blood arrives.
Blood	Cross–matched. if cross–matched blood unavailable and the clinical situation is urgent, give uncross–matched groupspecific blood or give O RhD–negative blood consider the use of red-cell salvage if available.
Fresh frozen plasma	4 units of FFP (12–15ml/kg or total 1 liter) (i) For every 6 units of red cells or (ii) If prothrombin time and/ or activated partial thromboplastin time (PT and aPTT) are greater than 1.5 x mean control.
Platelets concentrates	if platelet count <50 x 10 ⁹ /L
Cryoprecipitate	if fibrinogen <1 g/L

With continuing massive hemorrhage and whilst awaiting coagulation studies, up to 4 units of FFP and 10 units of cryoprecipitate (two packs) may be given empirically.

KINGDOM OF SAUDI ARABIA

وزارة الصحة
Ministry of Health

Hospital: _____: مستشفى

Region: _____: المنطقة/المحافظة

Dept./Unit: _____: القسم/الوحدة

MRN: _____ رقم الملف الطبي:

Name: _____ الاسم:

Nationality: _____ الجنسية:

Age: _____ سنة _____ شهر _____ يوم
Years Months Days العمر:

Date of Birth: _____ / _____ / 14_____ H _____ / _____ / 20_____ تاريخ الميلاد:

Gender: Male Female الجنس:

GENERAL CONSENTS إقرارات عامة

I (for Named Patient) signed below, authorize and give consent to my attending physician and/or his/her assistant to provide medical, nursing care and other clinical diagnostic or therapeutic procedures with the exception of surgical and invasive procedures, induction of anesthetics, infusion of blood and blood products and other procedures that require special consent.

أفوض أنا (المريض) الموقع أدناه، وأعطي موافقتي للطبيب المعالج ولمن يختار لمساعدته وذلك لتقديم عناية طبية وتمريضية وأي تشخيصات سريرية أو أية طرق علاجية بإستثناء العمليات الجراحية والإجراءات التداخلية حقن الدم أو مشتقاته أو أي عمل آخر يتطلب موافقة خاصة.

I understand that Dr. _____

لقد تم إعلامي أن الطبيب المعالج د. _____

is attending physician and is the person responsible for the assessment of my medical condition & my care plan & he/she will have the responsibility according to my medical condition, to Discharge or Transfer.

هو الشخص المسؤول عن تقييم حالتي الطبية وخطة علاجي وتقع عليه عليها مسؤولية أمر خروجي من المستشفى أو تحويلي الى أية جهة عناية صحية أخرى وذلك بناء على ما تستدعيه حالتي الصحية.

I understand that the hospital and its employees will respect my rights and privacy at all times and that the confidentiality of my medical information will be guarded carefully and released only to authorized person.

أفهم وأعي أن المستشفى وموظفيه سوف يحترمون خصوصياتي في كل الأوقات وأن سرية المعلومات الطبية الخاصة بي سوف يحافظ عليها بعناية وسوف تستخدم فقط وحصرها لأجل العلاج وأن تعطي فقط لهؤلاء الأشخاص الذين يقومون على رعايتي. ولن يتم إعطاء المعلومات لأي شخص أو جهة إلا في حالة موافقتي الشخصية أو موافقة الشخص المصرح كبدل عني.

I shall abide by the hospital rules and regulations.

سوف التزم واطيع كل القوانين والنظم الخاصة بالمستشفى.

I understand that the hospital is not responsible for the loss or damage of my money, valuables and other personal property and that in case of emergency or no alternative situations the items should be handed over to the security for safekeeping.

أفهم إن المستشفى لا تتحمل مسؤولية فقدان النقود، المقتنيات الثمينة أو أية ممتلكات خاصة بي الا في الحالة الطارئة أو في حالة عدم وجود بديل للحفاظ على ممتلكاتي حيث ان هذه الممتلكات يجب أن تعطي لمسؤولي الامن في المستشفى للحفاظ عليها.

If it is found that I am not eligible for free treatment, I am obligated to pay for all services rendered as per my healthcare needs, I agree that the authorities and Kingdom's courts will decide any dispute in connection with such costs.

إذا اتضح إنني غير مؤهل للعلاج المجاني فإني أتفهم إنني مطالب بدفع كل المصاريف المتعلقة بعلاجي وأوافق أن الجهات المختصة والمحاكم بالمملكة العربية السعودية هي التي تقرر مسؤولية الدفع في حالة وجود خلاف حول المصاريف الواجب دفعها.

In case of emergency, where I am not coherent or conscious and unable to make my healthcare decision, I hereby grant the following person (s) the right to take decision of my medical treatment on my behalf:

إذا كان هناك طارئ أو حالة غيبوبة أو عدم تركيز وكنت غير قادر على إتخاذ قرار بشأن حالتي الصحية فأني أمتنع حق إتخاذ القرار بالنيابة عني بشأن حالتي الصحية إلى الأشخاص التالية أسمائهم.

1. Name: _____

الإسم: _____

Relation to the Patient _____

صلة القرابة: _____

Date: _____ / _____ / _____ Time: _____

تاريخ: _____ / _____ / _____ وقت: _____

GDOH-COR-GC-351

ISSUED DATE:09/02/2013

1 OF 2



SN

0 000000 003513

KINGDOM OF SAUDI ARABIA



Hospital: _____ مستشفى: _____
 Region: _____ المنطقة/المحافظة: _____
 Dept./Unit: _____ القسم/الوحدة: _____

MRN: _____ رقم الملف الطبي:

Name: _____ الاسم:

Nationality: _____ الجنسية:

Age: _____ سنة _____ شهر _____ يوم _____
 Years Months Days العمر:

Date of Birth: ____/____/14 H ____/____/20 تاريخ الميلاد:

Gender: Male Female الجنس:

SURGICAL AND MEDICAL INTERVENTIONAL PROCEDURE إقرار الجراحة والإجراءات التداخلية

I, the undersigned _____

أقر أنا الموقع أدناه _____

On my behalf _____

بالإصالة عن نفسي أو بالنيابة عن: _____

Here by authorize Dr.: _____
 and his assistants to perform the following
 Surgical Operation Interventional
 Procedure: _____

بالموافقة على أن يقوم الطبيب
 ومساعديه بإجراء العملية الجراحية / الإجراء التداخلي: _____

The physician has fully explained to me my condition,
 the reasons for the Medical Interventional Procedures/
 surgery has also informed me of the expected
 benefits & complications, possible discomforts &
 risks that may arises as well as possible alternatives
 to the proposed treatment.

قام الطبيب بشرح حالتي المرضية وسبب العملية الجراحية /
 الإجراء التداخلي والخيارات العلاجية البديلة المقترحة، وكذلك
 الفوائد العلاجية والمضاعفات والمخاطر المحتملة
 وقد تم شرح العملية / الإجراء لي وأعطيت لي الفرصة
 للأسئلة وتمت الإجابة عليها بوضوح .
 شرحت لي المضاعفات الرئيسية لمحتمة:

The procedure has been explained to me as above
 and I had the chance to have my questions and/or
 quires answered by my physician.
 Main possible complications: _____

دون تعهد أو ضمان من جهة الطبيب أو المستشفى فيما
 يتعلق بالنتيجة أو الشفاء .

Explained to me without any warranty or guarantee
 from the hospital's side as to the result or cure.

وللطبيب المعالج أو لمساعديه الحق في اتخاذ ما يرويه
 ضروريا من الخدمات العلاجية الإضافية كاستخدام التخدير
 والأشعة والفحص الباثولوجي على سبيل المثال لا الحصر،
 أو استئصال أي نسيج أو عضو يرى الجراح ضرورة استئصاله
 أثناء العملية.

The treating physician or his assistants are entitled
 to provide additional procedures as reasonable and
 necessary, including administration of anesthesia and
 performance of pathology and radiology or excision
 of tissue / organ the surgeon deems necessary.

كذلك فإنني أفوض المستشفى بالحفظ أو التخلص
 المناسب من أي عضو أو نسيج تم استئصاله مني.

I do also authorize the hospital to keep, use or
 properly dispose any tissue and parts of organs that
 are excised during this procedure.

توقيع المريض أو ولي أمره: _____

التاريخ: ____/____/____ الوقت: _____

Signature of Patient or Guardian _____

اطلعت على هذا الإقرار قبل إجراء العملية الجراحية / الإجراء
 الطبي وقمت بشرح ذلك للمريض / ولي أمره .

Date ____/____/____ Time: _____

اسم الطبيب: _____

I have seen this consent before surgery and explained
 nature of operation to patient/ guardian.

التوقيع: _____ ختم: _____

Name of Doctor: _____

اسم الشاهد: _____

Signature: _____

التوقيع: _____

Date: ____/____/____ Time: _____

التاريخ: ____/____/____ الوقت: _____

GDOH-COR-SMIP-353

ISSUED DATE:09/02/2013

1 OF 1



SN _____