

PV BLEEDING (< 20 weeks gestation)

SESLHDPR/391

- Aim:**
- Early identification and treatment of life threatening causes of vaginal bleeding in women <20 weeks gestation, escalation of care for patients at risk.
 - Early initiation of treatment / clinical care and symptom management within benchmark time.

Assessment Criteria: On assessment the patient should have a history of vaginal bleeding plus one or more of the following signs / symptoms:

- | | | |
|---|---|---|
| <input type="checkbox"/> < 20 weeks gestation | <input type="checkbox"/> Vaginal bleeding +/- clots | <input type="checkbox"/> Suprapubic pain |
| <input type="checkbox"/> Positive urine / serum β HCG | <input type="checkbox"/> Lower back pain | <input type="checkbox"/> Recent post-coital bleed |

Escalation Criteria: Immediate life-threatening presentations that require escalation and referral to a Senior Medical Officer (SMO):

- | | | |
|---|---|--|
| <input type="checkbox"/> Meets Trauma Criteria | <input type="checkbox"/> Patients >20 weeks | <input type="checkbox"/> Severe abdominal pain / rigidity |
| <input type="checkbox"/> PV Loss >1pad / hour | <input type="checkbox"/> Passing large clots | <input type="checkbox"/> Referred pain - shoulder tip / back |
| <input type="checkbox"/> Hypotension or tachycardia | <input type="checkbox"/> Loss of products of conception / fetus | <input type="checkbox"/> Collapse / Syncope |

Primary Survey:

- | | |
|---|---|
| • Airway: patency | • Breathing: resp rate, accessory muscle use, air entry, SpO ₂ . |
| • Circulation: perfusion, BP, heart rate, temperature | • Disability: GCS, pupils, limb strength |

Notify CNUM and SMO if any of following red flags is identified from Primary Survey and Between the Flags criteria (1).

- | | | |
|---|--|--|
| <input type="checkbox"/> Airway - at risk <ul style="list-style-type: none"> • <i>Partial / full obstruction</i> • <i>Immobilise c-spine [as indicated]</i> | <input type="checkbox"/> Breathing - respiratory distress <ul style="list-style-type: none"> • <i>RR < 5 or >30 /min</i> • <i>SpO₂ < 90%</i> | <input type="checkbox"/> Circulation - Shock / altered perfusion <ul style="list-style-type: none"> • <i>HR < 40bpm or > 140bpm</i> • <i>BP < 90mmHg or > 200 mmHg</i> |
| <input type="checkbox"/> Disability - decreased LOC <ul style="list-style-type: none"> • <i>GCS \leq 14 or any fall in GCS by 2 points</i> | <input type="checkbox"/> Exposure <ul style="list-style-type: none"> • <i>Temperature < 35.5°C or > 38.5°C</i> • <i>BGL < 4mmol/L or > 20mmol/L</i> | <ul style="list-style-type: none"> • <i>Postural drop > 20mmHg</i> • <i>Capillary return > 2 sec</i> |

History:

- Presenting complaint
- Allergies
- Medications: Contraception, Anticoagulant Therapy, Anti-hypertensives, Diabetic meds, Analgesics, Inhalers, Chemotherapy, Non-prescription meds, any recent change to meds.
- Past medical past surgical history relevant: including past pregnancies /miscarriages or terminations, gynaecological history, intrauterine contraceptive devices (IUD) i.e. fibroids / endometriosis, STIs.
- Last ate / drank and last menstrual period (LMP)
- Events and environment leading to presentation: post-coital bleed / trauma / sexual assault
- Pain Assessment / Score: **PQRST** (Palliating/ provoking factors, Quality, Region/radiation, Severity, Time onset)
- Associated signs / symptoms: duration and volume of bleeding +/- clots, nausea / vomiting, diarrhoea, urinary symptoms, symptoms of pregnancy loss i.e. products of conception / fetus.
- History: family, trauma and travel - i.e. non-prescribed drug use, ETOH, smoking, domestic / family violence

Systems Assessment:

Focused abdominal / gynaecological assessment:

- *Inspection:* General appearance / colour (pallor), distension, bruising, discolouration. If able, assess amount of PV bleeding loss of clots or products of conception and movement of patient.
- *Auscultation:* Listen for presence/absence of bowel sounds and fetal heart sounds [as indicated]
- *Palpation:* Identify location of pain, unilateral right/left lower quadrant pain, any signs of peritonism i.e. guarding or rigidity, rebound tenderness.

Notify CNUM and Senior Medical Officer (SMO) if any of following red flags is identified from History or Systems Assessment. (2)

- | | | |
|--|---|--|
| <input type="checkbox"/> Pallor and/or dizziness | <input type="checkbox"/> Signs of trauma to abdomen | <input type="checkbox"/> Abdominal distension / rigidity |
| <input type="checkbox"/> Large PV loss >1pad/hour | <input type="checkbox"/> Absent bowel sounds | <input type="checkbox"/> Referred pain - shoulder tip / back |
| <input type="checkbox"/> Bruising to abdominal / pelvic region | <input type="checkbox"/> Severe abdominal pain | <input type="checkbox"/> Nausea / vomiting with pain |
| <input type="checkbox"/> Hypotension | <input type="checkbox"/> Loss of products of conception / fetus | <input type="checkbox"/> Past hx of ectopic pregnancy |

Investigations / Diagnostics:

Bedside:

- BGL: If < 3mmol/L or >20mmol/L notify SMO
- ECG: [as indicated] look for Arrhythmia

Laboratory / Radiology:

- **Pathology:** Refer to local nurse initiated **STOP** – FBC, UEC
Blood Group and Antibody
Quantitative β HCG

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<ul style="list-style-type: none"> • Urinalysis / MSU (if urinary symptoms) • Urine BHCG 	<p>Blood Cultures (if Temp >38.5 or < 35°C)</p> <ul style="list-style-type: none"> • Radiology: Abdominal / Pelvic Ultrasound (<i>discuss with SMO</i>) 	
<p>Nursing Interventions / Management Plan:</p> <p>Resuscitation / Stabilisation:</p> <ul style="list-style-type: none"> • Oxygen therapy and cardiac monitor [as indicated] • IV Cannulation (16-18gauge if unstable) • IV Fluids: Sodium Chloride 0.9% 1 L IV stat versus over 8 hours (<i>discuss with SMO</i>) 	<p>Symptomatic Treatment:</p> <ul style="list-style-type: none"> • Antiemetic: as per district standing order • Analgesia: as per district standing order • IV Fluids: as per district standing order 	
<p>Supportive Treatment:</p> <ul style="list-style-type: none"> • Nil By Mouth (NBM) • Monitor vital signs as clinically indicated (BP, HR, T, RR, SpO₂) • Monitor neurological status GCS as clinically indicated • Monitor pain assessment / score 	<ul style="list-style-type: none"> • Fluid Balance Chart (FBC) • PV Loss Chart • Provide emotional support - Refer to Social Worker [as available] 	
<p>Practice Tips / Hints:</p> <ul style="list-style-type: none"> • Any woman of childbearing age presenting with abdominal / pelvic pain should be considered pregnant until proven otherwise • Differential diagnosis must always exclude ectopic pregnancy, ovarian torsion appendicitis, peritonitis. • Ectopic pregnancy can be associated with vomiting, diarrhoea or collapse. • If heavy PV loss consider urgent speculum examination to remove any clots in cervical os (which may be causing vagally induced hypotension). • Vaginal bleeding is common in the first trimester (0 to 13^{6/7} weeks), occurring in 20 to 40 percent of pregnant women. The four major sources of non-traumatic bleeding in early pregnancy are, Ectopic pregnancy, Miscarriage (threatened, inevitable, incomplete, complete), Implantation of the pregnancy, Cervical, vaginal, or uterine pathology (e.g. polyps, inflammation/infection, trophoblastic disease) (4) • Analgesics are imperative in the presence of pain and discomfort, and non-steroidal anti-inflammatory drugs are best avoided. Paracetamol is the analgesic of choice • Trust, rapport, sensitivity and privacy are essential considerations that need to be made when caring for women who present with gynaecological emergencies. • Appropriate patients may be referred to or followed-up with an Early Pregnancy Assessment Service (EPAS) which operate in most medium to large NSW hospitals. • Provide a written patient fact sheet for "Bleeding in Early Pregnancy" available online from Emergency Care Institute (ECI): https://www.aci.health.nsw.gov.au/networks/eci/clinical/ed-factsheets 		
<p>Further Reading / References:</p> <ol style="list-style-type: none"> 1. SESLHDPR/283 Deteriorating patients – Clinical Emergency Response System for the Management of Adult and Maternity Patients 2. Pregnancy loss (miscarriage): Management techniques (UpToDate) Oct 2020 3. Ectopic Pregnancy: Epidemiology, Risk factors and anatomic sites (UpToDate) Oct 2020 4. Norwitz, ER and Park JS (2017) Overview of the etiology and evaluation of vaginal bleeding in pregnant women. Available Online April 2017 http://www.uptodate.com/contents/overview-of-the-etiology-and-evaluation-of-vaginal-bleeding-in-pregnant-women?source=search_result&search=vaginal+bleeding+in+pregnancy&selectedTitle=1%7E150 5. Horvat, L 2011, 'Gynaecological Emergencies' in Curtis, K. & Ramsden, C (eds), Emergency and Trauma Care for nurses and paramedics, Mosby Elsevier, China, pp 819-837. 6. Homer, C 2011, 'Obstetric Emergencies' in Curtis, K. & Ramsden, C (eds), Emergency and Trauma Care for nurses and paramedics, Mosby Elsevier, China, pp. 841-860. 		
<p>Acknowledgements: <i>SESLHD Adult Emergency Nurse Protocols were developed and adapted from:</i></p> <ul style="list-style-type: none"> • Murphy, M (2007) Emergency Department Toolkits Westmead Hospital, SWAHS • Hodge, A (2011) Emergency Department, Clinical Pathways. Prince of Wales Hospital SESLHD. 		
<p>Revision and Approval History</p>		
<p>Date</p>	<p>Revision No.</p>	<p>Author and Approval</p>
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<p>March 2014</p>	<p>1</p>	<p>Edited by Leanne Horvat, Clinical Stream Nurse Manager Emergency / Critical Care & Emergency Stream CNC/NE Working Group SESLHD.</p>
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Adult Emergency Nurse Protocol



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