

## Stage 1: OB Hemorrhage:

Cumulative QBL (Quantitative Blood Loss)  $\geq 1000$  over 24 hours  
 Consider activation with acute bleeding when QBL  $> 500\text{mL}$



Primary RN
<input type="checkbox"/> Call provider to bedside
<input type="checkbox"/> Notify charge RN to activate stage 1
<input type="checkbox"/> Ensure 18 G IV access
<input type="checkbox"/> Increase IV Fluids, oxytocin infusing?
<input type="checkbox"/> Intermittent fundal massage
<input type="checkbox"/> VS q5min
<input type="checkbox"/> O2 PRN (sat $<95\%$ )
<input type="checkbox"/> Strict I&Os
<input type="checkbox"/> Warm Blankets

Charge RN
<input type="checkbox"/> Assign 2 <sup>nd</sup> RN
<input type="checkbox"/> Retrieve PPH cart
<input type="checkbox"/> Retrieve WOW(work-station on wheels)
<input type="checkbox"/> 'Heads up' to anesthesia
<input type="checkbox"/> Reassign NB care as needed
<input type="checkbox"/> If not within 2 hours after birth, consider OB Fast/ARRT (6WH)

Second RN
<input type="checkbox"/> Retrieve PPH med kit, IV fluids, warm blankets
<input type="checkbox"/> QBL q5-10 minutes & report total QBL
<input type="checkbox"/> Utilize checklist to suggest next steps
<input type="checkbox"/> Document

OB, FM, CNM
<input type="checkbox"/> ID and treat per etiology (4 Ts)
<input type="checkbox"/> I&O cath or place foley with urometer
<input type="checkbox"/> Order T&C (Type and Cross) for 2 units PRBCs
<input type="checkbox"/> OB chief: notify OB attending

### Medications to Consider (in no particular order)

#### Pitocin (oxytocin)

Bolus of 15 units over 1 hour followed by NS 500mL + Oxytocin 30 units @ 62mu/min X 4 hours

#### Methergine (methylergonovine)

200mcg IM every 2 hours (max 5 doses)  
**CONTRAINDICATIONS:**  
 HTN or preeclampsia

#### Hemabate (carboprost)

250mcg IM every 15 min (max 8 doses)  
 Not recommended in asthma

#### Cytotec (misoprostol)

400 mcg SL or  
 1000 mcg PR

#### TXA (tranexamic acid)

1000mg IVP over 10 minutes  
 May repeat in 30 minutes for continued bleeding

### Consider the 4 Ts:

**Tone:**  
uterine atony

**Tissue:**  
retained tissue

**Trauma:**  
laceration, rupture

**Thrombin:**  
coagulopathy

## Stage 2: OB Hemorrhage

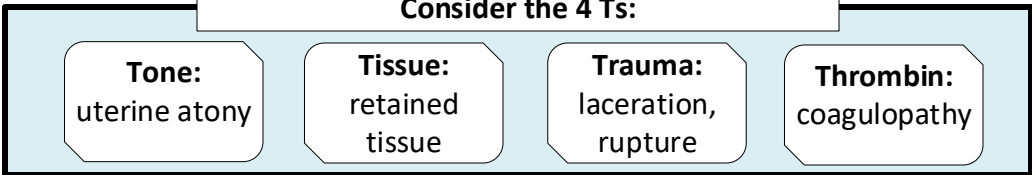
Continued bleeding (QBL less than 1500ml)

OR Vital Signs >15 % change OR HR ≥ 110, BP ≤85/45, O2 Sat < 95%

Primary RN	Charge RN	Second RN	OB, FM, CNM	Anesthesia
<ul style="list-style-type: none"> <li><input type="checkbox"/> Notify Charge RN re: Stage 2</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Call OB Fast Team/ARRT (6WH)</li> <li><input type="checkbox"/> Prepare OR (notify scrub tech)</li> <li><input type="checkbox"/> Send runner to blood bank</li> <li><input type="checkbox"/> Notify VIR PRN Vocera: VIR (4-0420)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Retrieve bedside US</li> <li><input type="checkbox"/> Place 2<sup>nd</sup> IV, draw CBC, BMP, coags, PT, PTT, fibrinogen</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> SBAR communication</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Assist with access &amp; labs</li> </ul>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Increase IV fluids, Oxytocin infusing?</li> <li><input type="checkbox"/> Intermittent fundal massage</li> <li><input type="checkbox"/> VS q5min</li> <li><input type="checkbox"/> O2 PRN sats &lt; 95%</li> <li><input type="checkbox"/> Strict I&amp;Os</li> <li><input type="checkbox"/> Warm blankets</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Assign 2<sup>nd</sup> RN</li> <li><input type="checkbox"/> Retrieve PPH cart</li> <li><input type="checkbox"/> Retrieve WOW</li> <li><input type="checkbox"/> Reassign NB care as needed</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Retrieve PPH med kit, IV fluids, warm blankets</li> <li><input type="checkbox"/> QBL q5-10 minutes &amp; report total QBL</li> <li><input type="checkbox"/> Utilize checklist to suggest next steps</li> <li><input type="checkbox"/> Document</li> </ul>	<p><b>Vaginal Birth</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Bimanual fundal massage</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Order labs</li> <li><input type="checkbox"/> Order 2units pRBCs, 2u FFP</li> <li><input type="checkbox"/> Assist with transfusion</li> <li><input type="checkbox"/> Assess pain/ dose epidural if in place</li> </ul>
			<ul style="list-style-type: none"> <li><input type="checkbox"/> Insert foley with urometer</li> </ul>	
			<ul style="list-style-type: none"> <li><input type="checkbox"/> Consider OB consult if applicable</li> <li><input type="checkbox"/> Laceration/hematoma: packing, repair as required</li> <li><input type="checkbox"/> Retained placenta: D&amp;C</li> <li><input type="checkbox"/> Lower segment / implantation site/ atony: Bakri Balloon Insertion</li> <li><input type="checkbox"/> Consider VIR Vocera: VIR (4-0420)</li> </ul>	
			<p><b>Cesarean Birth</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> B-Lynch suture</li> <li><input type="checkbox"/> Bakri Balloon Insertion</li> <li><input type="checkbox"/> Uterine Artery Ligation</li> </ul>	

**\*\*shaded areas indicate steps from previous stage\*\***

**Consider the 4 Ts:**



## Stage 3: OB Hemorrhage

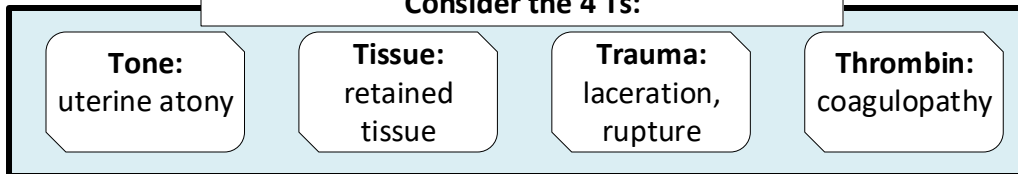
QBL: total, continued blood loss over 1500ml

**OR** >2 units PRBCs given **OR** unstable VS **OR** suspicion of DIC

**Consider:  
MOVE TO OR**

Primary RN	Charge RN	Second RN	OB	Anesthesia
<ul style="list-style-type: none"> <li><input type="checkbox"/> Notify Charge RN re: Stage 3</li> <li><input type="checkbox"/> Circulate in OR</li> <li><input type="checkbox"/> Apply SCDs</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Call MFM back up or 2<sup>nd</sup> MFM</li> <li><input type="checkbox"/> Consider calling GYN/ONC surgeons</li> <li><input type="checkbox"/> Notify house supervisor if additional help needed</li> <li><input type="checkbox"/> Update family (contact social worker/chaplain)</li> <li><input type="checkbox"/> Reassign staff as needed</li> <li><input type="checkbox"/> Reassign NB care as needed</li> <li><input type="checkbox"/> Send runner to blood bank</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Retrieve PPH med kit, IV fluids, warm blankets</li> <li><input type="checkbox"/> QBL q5-10 minutes &amp; verbally report total QBL</li> <li><input type="checkbox"/> Utilize checklist to suggest next steps</li> <li><input type="checkbox"/> Document</li> <li><input type="checkbox"/> Retrieve bedside US</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Transfer to OB care</li> <li><input type="checkbox"/> If ICU bed needed, initiate process</li> <li><input type="checkbox"/> Consider DIC/Coagulation Dysfunction</li> <li><input type="checkbox"/> Consider VIR Vocera: VIR (4-0420)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Activate MTP Vocera: Blood Bank (4-1780)</li> <li><input type="checkbox"/> Continue to administer meds, blood products, volume replacement</li> <li><input type="checkbox"/> Labs, arterial blood gases</li> <li><input type="checkbox"/> Invasive monitoring PRN</li> <li><input type="checkbox"/> Re-dose antibiotics</li> <li><input type="checkbox"/> Use warmer for blood/IVF</li> <li><input type="checkbox"/> Bair hugger</li> </ul>
			<p><b>**shaded areas indicate steps from previous stages**</b></p>	

**Consider the 4 Ts:**



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California Maternal Quality Care Collaborative [www.cmqcc.org](http://www.cmqcc.org)  
 AWHONN postpartum hemorrhage project [www.pphproject.org](http://www.pphproject.org)  
 Council on Patient Safety in Women's Health Care [safecareforeverywoman.org](http://safecareforeverywoman.org)

