

ALIFORNIA MATERNAL Obstetric Hemorrhage Care Summary: Table Chart Format version 1.4

	Assessments	Meds/Procedures	Blood Bank
Stage 0 Every woman in labor/giving birth			
Stage 0 focuses on risk assessment and active management of the third stage.	 Assess every woman for risk factors for hemorrhage Ongoing quantitative evaluation of blood loss on every birth 	Active Management 3 rd Stage: • Oxytocin IV infusion or 10u IM • Fundal Massage- vigorous, 15 seconds min.	 If Medium Risk:T&Scr If High Risk: T&C 2 U If Positive Antibody Screen (prenatal or current, exclude low level anti-D from RhoGam):T&C 2 U
Stage 1	Blood loss: >500 ml vaginal <u>or</u> >1000 ml Cesarean, <u>or</u> VS changes (by >15% <u>or</u> HR ≥110, BP ≤85/45, O2 sat <95%)		
Stage 1 is short: activate hemorrhage protocol, initiate preparations and give Methergine IM.	 Activate OB Hemorrhage Protocol and Checklist Notify Charge nurse, Anesthesia Provider VS, O2 Sat q5' Calculate cumulative blood loss q5-15' Weigh bloody materials Careful inspection with good exposure of vaginal walls, cervix, uterine cavity, placenta 	 IV Access: at least 18gauge Increase IV fluid (LR) and Oxytocin rate, and repeat fundal massage Methergine 0.2mg IM (if not hypertensive) May repeat if good response to first dose, BUT otherwise move on to 2nd level uterotonic drug (see below) Empty bladder: straight cath or place foley with urimeter 	• T&C 2 Units PRBCs (if not already done)
Stage 2		g with total blood loss	under 1500ml
Stage 2 is focused on sequentially advancing through medications and procedures, mobilizing help and Blood Bank support, and keeping ahead with volume and blood products.	OB back to bedside (if not already there) • Extra help: 2 nd OB, Rapid Response Team (per hospital), assign roles • VS & cumulative blood loss q 5-10 min • Weigh bloody materials • Complete evaluation of vaginal wall, cervix, placenta, uterine cavity • Send additional labs, including DIC panel • If in Postpartum: Move to L&D/OR • Evaluate for special cases: -Uterine Inversion -Amn. Fluid Embolism	2 nd Level Uterotonic Drugs: • Hemabate 250 mcg IM or • Misoprostol 800-1000 mcg PR 2 nd IV Access (at least 18gauge) Bimanual massage Vaginal Birth: (typical order) • Move to OR • Repair any tears • D&C: r/o retained placenta • Place intrauterine balloon • Selective Embolization (Interventional Radiology) Cesarean Birth: (still intra-op) (typical order) • Inspect broad lig, posterior uterus and retained placenta • B-Lynch Suture • Place intrauterine balloon	 Notify Blood Bank of OB Hemorrhage Bring 2 Units PRBCs to bedside, transfuse per clinical signs – do not wait for lab values Use blood warmer for transfusion Consider thawing 2 FFP (takes 35+min), use if transfusing >2u PRBCs Determine availability of additional RBCs and other Coag products
Stage 3	or vs unstable or suspicion of Dic		
Stage 3 is focused on the Massive Transfusion protocol and invasive surgical approaches for control of bleeding.	 Mobilize team Advanced GYN surgeon 2nd Anesthesia Provider OR staff Adult Intensivist Repeat labs including coags and ABG's Central line Social Worker/ family 		Transfuse Aggressively Massive Hemorrhage Pack • Near 1:1 PRBC:FFP • 1 PLT pheresis pack per 6units PRBCs Unresponsive Coagulopathy: After 10 units PRBCs and full coagulation factor replacement: may