

Guideline order set for US-guided Regional Anesthesia:

<ul style="list-style-type: none"> • <u>“QRS” orders:</u> <ul style="list-style-type: none"> - Continuous cardiac and pulse oximetry monitoring pre, during, and at least thirty minutes post-procedure - Large chloraprep to bedside for procedure - Ultrasound machine to bedside - Ultrasound probe cover to bedside for procedure - *4” non-cutting needle with attached tubing to bedside for procedure - 60cc luer lock syringe to bedside for procedure (only for compartmental block) - Physician: Complete informed written consent for Regional Block Anesthesia - Physician: Ensure documented pre-procedure regional neurological exam - RN: Verify location and immediate availability of 20% Lipid Emulsion - RN: If no central monitoring capability, obtain vital signs q 10 minutes x 3 <ul style="list-style-type: none"> * Located in Pod A behind flow, in top right draw labeled “US Nerve Needles” • <u>Medication Orders:</u> <ul style="list-style-type: none"> - Bupivacaine 0.5% anesthetic to bedside for procedure, max dose 0.4 mL/kg - *Normal Saline to bedside for procedure for compartmental block, refer to conversion chart for approximate volume <ul style="list-style-type: none"> *for fascia illiaca compartmental block, refer to Compartmental Block weight based solution ratio conversion to approximate volume for block
--

Figures and Charts for reference:

Required TMB informed written consent components for regional nerve block:

REGIONAL BLOCK ANESTHESIA/ANALGESIA - nerve damage; persistent pain; bleeding/hematoma; infection; medical necessity to convert to general anesthesia; brain damage.

Compartmental Block weight based solution ratio conversion:

Weight (kg)	Bupivacaine (mL)	NS (mL)
45	18	32
50	20	30
55	22	28
60	24	26
65	26	24
70	28	22
75	30	20
80	32	18
85	34	16
90	36	14
95	38	12
100	40	10

*bupivacaine 0.5% **max dose 0.4 mL/kg**

*Block solution 40-60cc, chart based on 50cc

Lipid Emulsion Dosing *LAST management:

Lipid Emulsion 20% (Precise volume and flow rate are not crucial)	
Greater than 70 kg patient	Less than 70 kg patient
Bolus 100 mL Lipid Emulsion 20% rapidly over 2-3 minutes • Lipid emulsion infusion 200-250 mL over 15-20 minutes	Bolus 1.5 mL/kg Lipid Emulsion 20% rapidly over 2-3 minutes • Lipid emulsion infusion ~0.25 mL/kg/min (ideal body weight)
If patient remains unstable: <ul style="list-style-type: none"> • Re-bolus once or twice at the same dose and double infusion rate; be aware of dosing limit (12mL/kg) • Total volume of lipid emulsion can approach 1 L in a prolonged resuscitation (e.g., > 30 minutes) 	

* Local Anesthetic Systemic Toxicity (LAST)

**** Clinical guidelines should not be used in isolation of clinical judgment and physician discretion is encouraged.**