Emergency Department FEMORAL BLOCK CHECKLIST





<name> <age> <dob> <hosp number=""> <nhs number=""> <ed episode="" number=""></ed></nhs></hosp></dob></age></name>										
BEFORE THE PROCEDURE Indication: Fracture Neck of Femur Other										
			Yes	No					Yes	No
Patient Identity checked as correct?					Any drug Allergies ?					
Appropriate Consent completed?					Safe Site of BLOCK insertion identified?					
Confirm SITE / SIDE of clinical abnormality					Are there any concerns about this procedure					
by two clinicians – sign below					for the patient or its timing ?					
Risk of Coagulopathy	& Medicines	checked?								
TIME OUT										
			Yes	No					Yes	No
Patient is adequately	Monitored ?				Patient adequately analgesed ?					
Patient position is opt	imal				Team members identified & roles assigned					
				l l				-		<u> </u>
STOP BEFORE YOU		Clinician 1				□Right	Clinician 2			□Right
Have you got the Corre	ect Side ?					□Left				□Left
DURING PROCEDU	IRE									\neg
☐ Hands washed and Sterile Gloves and Apron WEIGHT ☐ Actual										
☐ Chlorprep 2% to skin and allowed to dry							Estimate		Kg	
Γ			Volume:			Nelvers				
Local Anaesthetic:	Local Anaesthetic: □ Lidocaine 1% □ Lidocaine 2%			ie:		☐ Bupivicaine 0.25% Volume:				
	□ Lidocai	ne 2%			□ Bupivicaine 0.5%					
Time of Block (24hr)			-	Techniqu	ie:	□ Iliofascia	al 🗆 Femo	oral		
,				U/S Guid	4					
NOTES			Adverse Events No Yes (record below or in note					s)		
SIGN OUT										
			V	NI-					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NI-
Draceing / Blactor			Yes	No	Vitals signs monitored for LA toxicity			Yes	No	
Dressing / Plaster Verbal handover to Nurse					Analgesia prescribed					
			Fmins							
Mandatory Post Procedure Vital Signs - 5mins - 10mins - 15mins - 30mins										
		7								
PROCEDURE STAFF (print & sign)										
Date										
Time (24hr)		Assista	IIIL							

These are recommended doses. These doses are NOT additive. When the recommended dose of one local anaesthetic has been reached no further local anaesthetic (of any type) should be given. Absorption varies depending on injection site / method of administration, and blood levels may increase in the elderly and unwell patient.

	Concentration (mg/ml)	Maximum Dose (mg/kg)	Maximum Volume (ml)							
			35Kg	40Kg	45Kg	50Kg	60Kg	70Kg	80Kg - 100Kg	
Lidocaine 1%	10mg/ml	3mg/Kg	10.5	12	13.5	15	18	20ml (200mg)		
Lidocaine 2%	20mg/ml	3mg/Kg	5.25	6	6.75	7.5	9	10ml (200mg)		
Bupivicaine 0.25%	2.5mg/ml	2mg/Kg	28	32	36	40	48	56	60ml (150mg)	
Bupivicaine 0.5%	5mg/ml	2mg/Kg	14	16	18	20	24	28	30ml (150mg)	
Lidocaine 1% with adrenaline (1in 200000)	10mg/ml	7mg/Kg	24.5	28	31.5	35	42	49	50ml (500mg)	
Lidocaine 2% with adrenaline (1in 200000)	20mg/ml	7mg/Kg	12.25	14	15.75	17.5	21	24.5	25ml (500mg)	
Prilocaine 1%	10mg/ml	6mg/Kg	21	24	27	30	36	40ml (400mg)		

Local Anaesthetic Systemic Toxicity

Almost always occurs within minutes of injection of the local anesthetic and is rare. Neurologic symptoms typically precede cardiovascular symptoms in lidocaine toxicity. Cardiovascular symptoms typically present first in bupivacaine toxicity.

Causes:

- •Injection of local anesthetic into the systemic circulation (either errantly as part of a regional block i.e. Bier block)
- Rapid absorption of local anesthetic injected into a highly vascular area
- •Use of local anesthetic doses in excess of the maximum dose (typically occurs with multiple subcutaneous injections)
- Consider diagnosis in any patient coming from outpatient surgical center with cardiac arrest.

CNS Symptoms

Minor Signs/Symptoms

- Tongue and perioral numbness
- Parasthesias
- Restlessness
- Tinnitus
- Muscle fasciculations + tremorsMajor Signs/Symptoms
- Tonic-clonic seizures
- •Global CNS depression
- Decreased level of consciousness
- Apnea

Cardiovascular Symptoms Early Signs

- Hypertension and tachycardiaLate Signs:
- •Peripheral vasodilation + profound hypotension
- •Sinus bradycardia, AV blocks
- Conduction defects (Prolonged PR, Prolonged QRS)
- Ventricular dysrhythmias
- Cardiac arrest

Management – toxicity is worsened by the presence of Hypercapnia, Hypoxia, Acidosis

- •Any symptom of LA toxicity eg. perioral tingling stop injection, IV access, cardiac monitor, consider resus room.
- ●Aggressive supportive care as required and may include-FiO₂ 100%, hyperventilate, adrenaline, bicarbonate, benzodiazepines.
- •High Quality CPR may be necessary particularly in the case of the longer lasting Local Anaesthetics such as bupivacaine.
- ●Intralipid (Resus fridge / ICU) Bolus: 1 1.5 ml/kg over 1 min. Can repeat bolus every 3 minutes up to a total dose of 3 ml/kg Infusion: 0.25 ml/kg/min. Continue infusion until haemodynamically stable for at least 10 minutes. Can increase infusion to 0.5 ml/kg/min if BP worsens.