FASCIA ILIACA BLOCK Pre-Course Learning



• Why

- Cautions & Contraindication
- Anatomy and Ultrasound
- Kit

- Consent
 - Monitoring

 Local Anaesthetic Toxicity Fascia Iliaca Block

PIAN





- Analgesic Effect <30min
- **Duration 12-22hr**
- **Better than NSAID + Opiate**
- Reduced Opiate usage
- Less Nausea
- Less Pneumonia
- **Earlier Mobilisation (Post-OP)** lacksquare
- Reduced Delirium

Fascia Iliaca Block

WHY?





FASCIA ILIACAVS. FEMORAL NERVE RICK

than FIB

- **Difficulty:** FNB Target area smaller than FIB

 Complications: FNB higher risk of vascular & neural damage Fascia lliaca Block

• **Effectiveness:** some evidence that FNB is more effective

• Drug Dose: FNB uses significantly less anaesthetic

CAUTION & CONTRAINDICATION

Cautions

- Patient Refusal Anticoagulation (Warfarin OR NOAC)
- Requires other blocks (e.g. Haematoma)
- Proceeding Opiates

Fascia Iliaca Block

Contraindications

- Allergy/Anaphylaxis
 - Inflammation/Infection at site
 - Previous By-Pass surgery OR near graft site





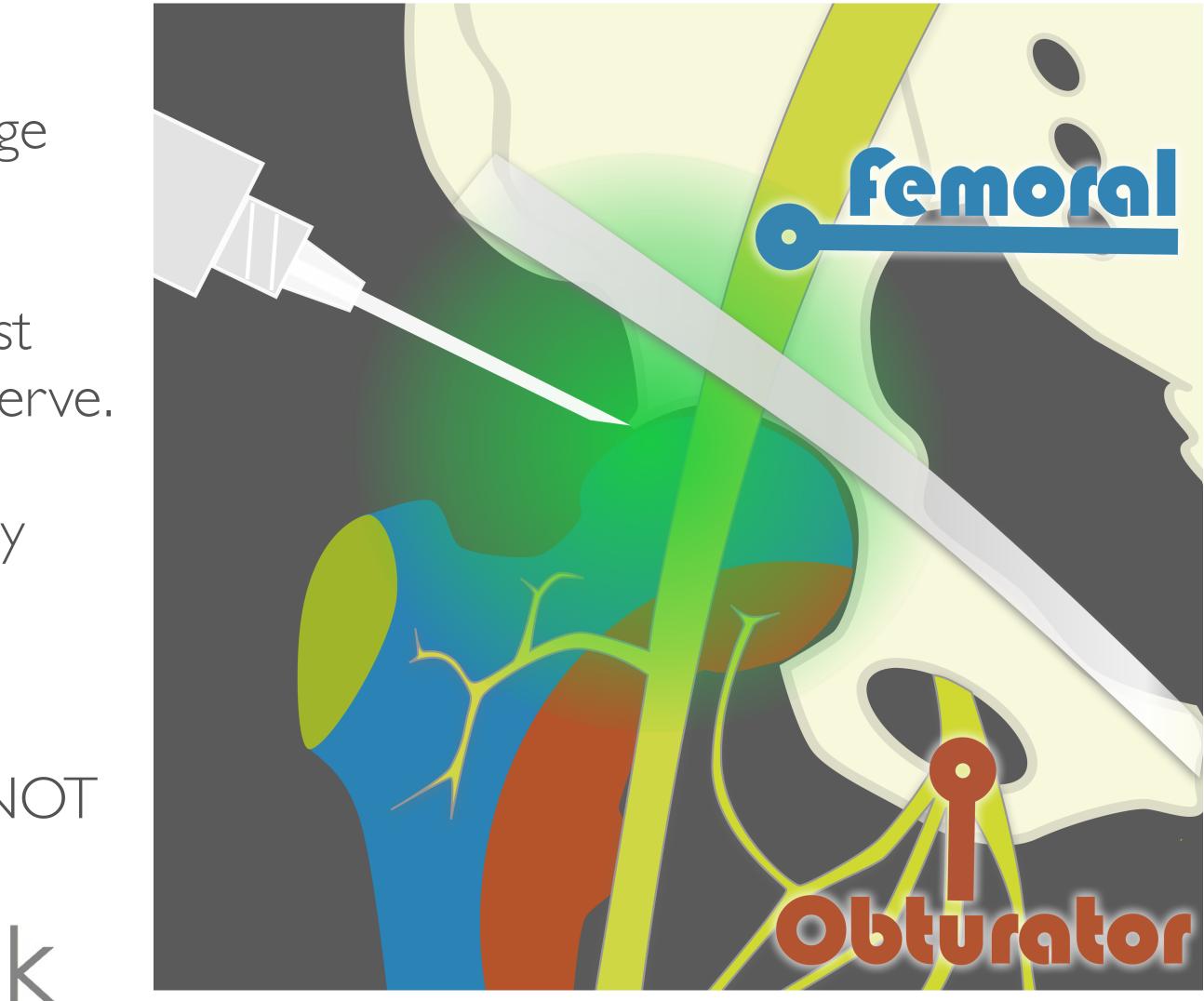
ANATOMY - INNERVATION

Femoral Sacral Obturator

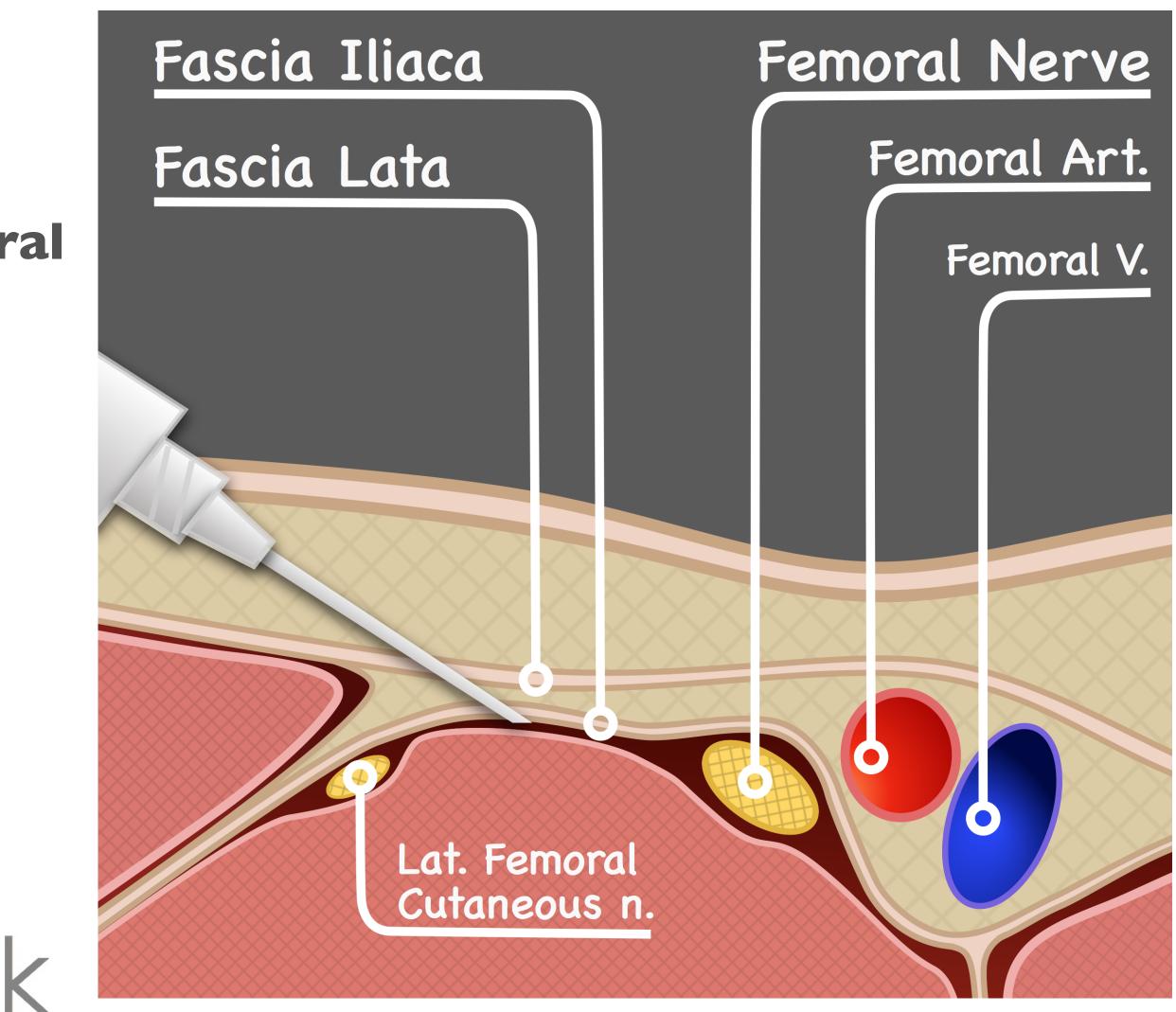
- Fascia Iliaca Block is a large volume compartment
- Femoral nerve is the largest and most constantly blocked nerve.
- Obturator nerve is variably blocked
 - Sciatic nerve runs in the posterior compartment so is NOT blocked

Fascia Iliaca Block

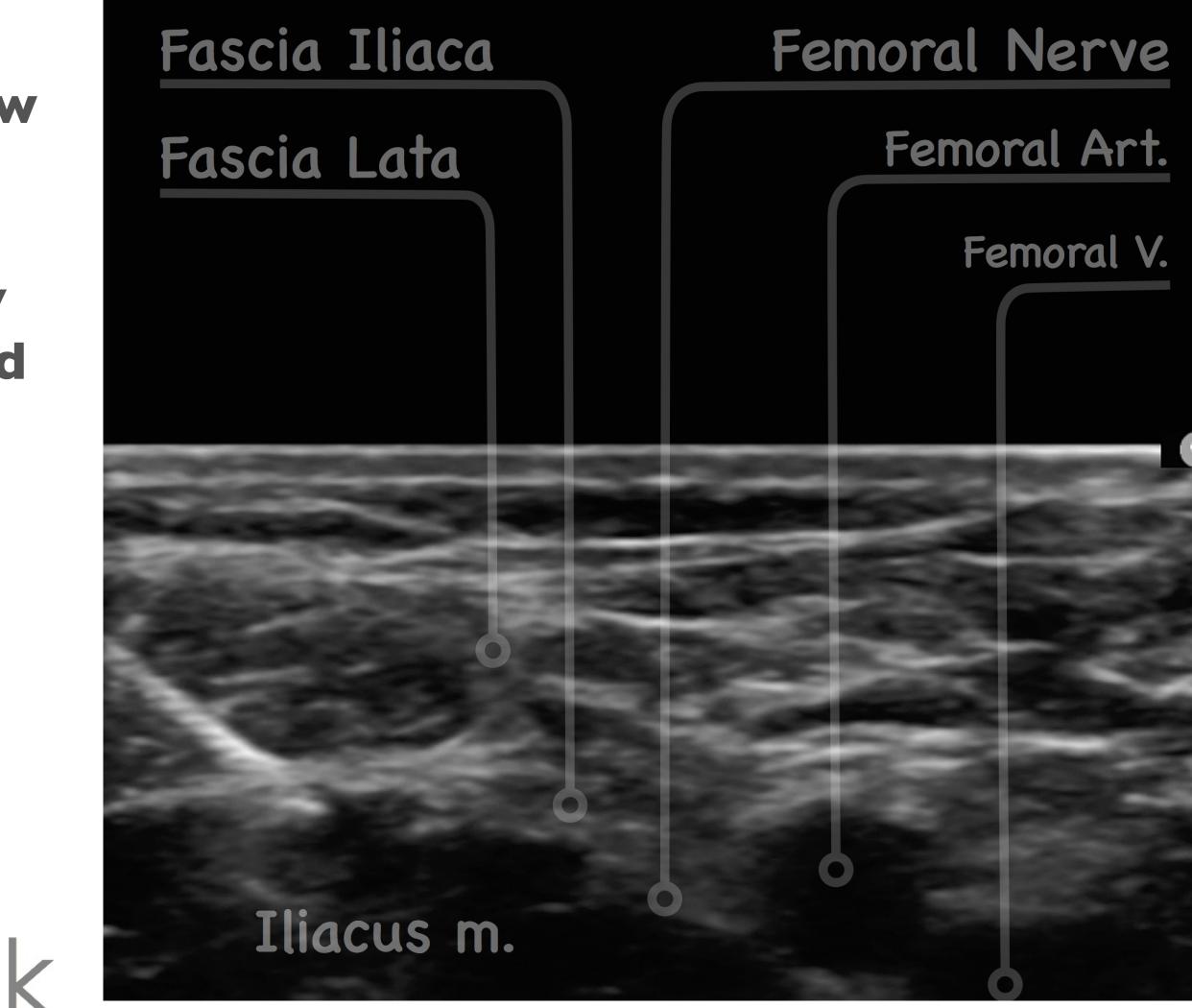
ANATOMY - INNERVATION



- Femoral nerve, lays just lateral to the Femoral artery.
- They are separated by the Fascia Iliaca
- The needle will pass through
 - Fascia Lata [AKA Pop I]
 - Fascia Illiacus [AKA Pop 2]



- Probe is held laterally below the inguinal ligament
- Femoral Artery is probably the easiest structure to find
- Femoral nerve, is often difficult to see
- Fascias appear as bright lines
 - Fascia Lata [AKA Pop I]
 - Fascia Iliaca [AKA Pop 2]

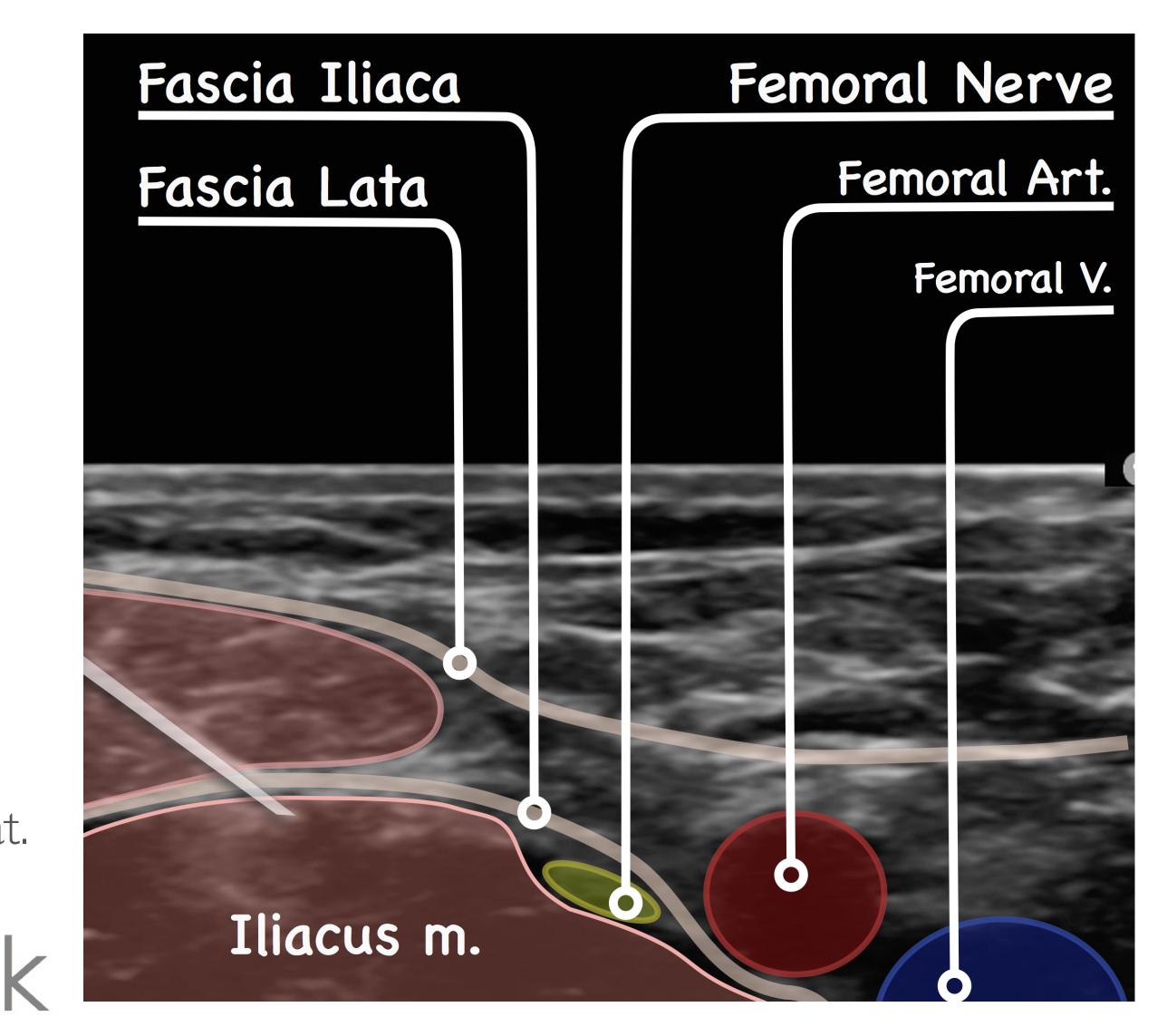


• Find the Femoral Artery

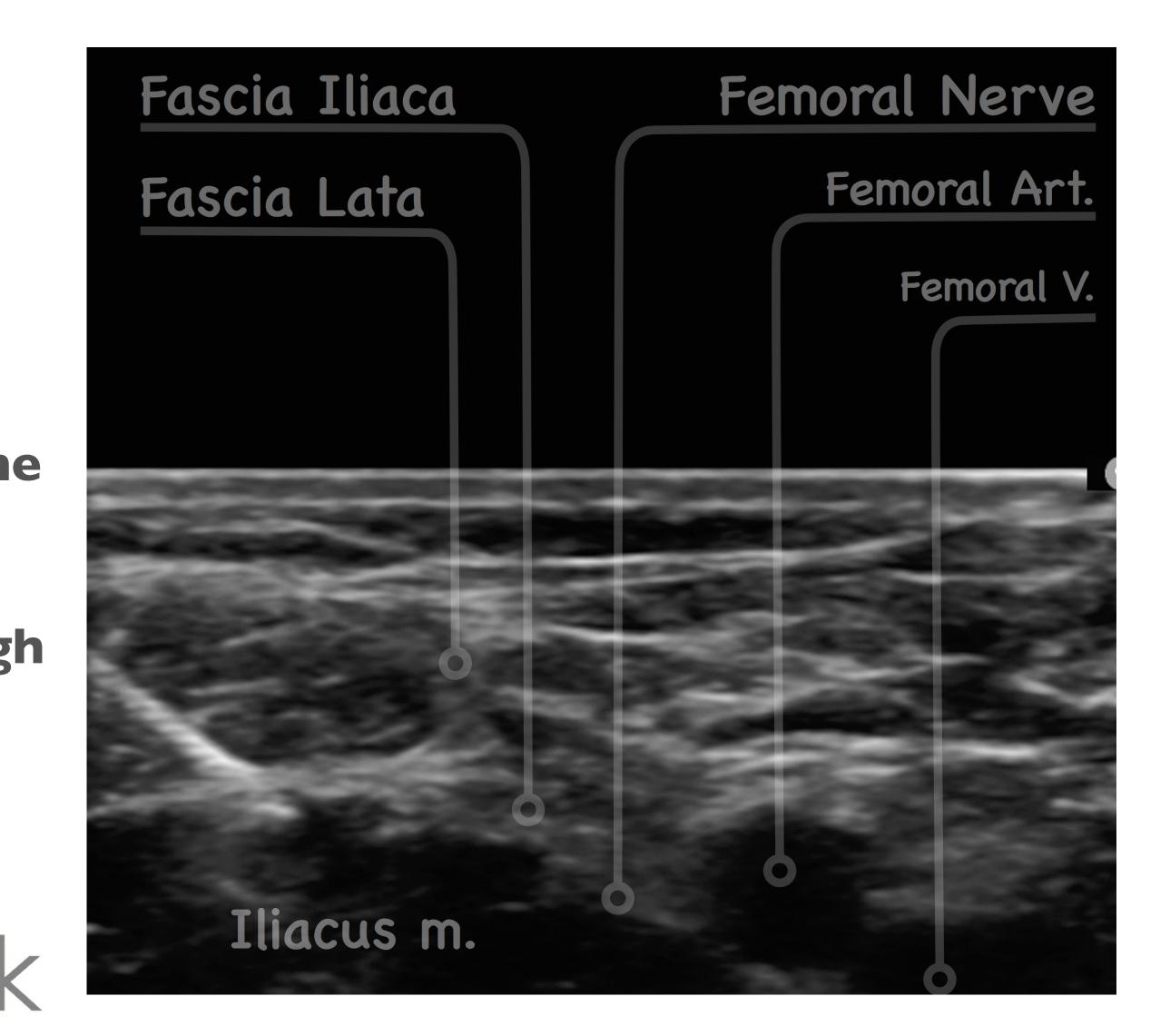
• Fascias

- Fascia Lata above the artery
- Fascia Iliaca lat. and under the artery
- **Femoral Nerve** lat. to the artery , on top of the Iliacus Muscle and under Fascia Iliaca.

Needle - Just under Fascia Iliaca, lat. to the Femoral Nerve.



- Round Pulsey Artery
- Femoral nerve, gray oval
- Surfaces/Layers parallel to the surface show up best
- The needle has passed through
 - Fascia Lata [AKA Pop I]
 - Fascia Iliaca [AKA Pop 2]



I. Chlorhexadine 0.5%

2. Tegaderm

3. Aqua Gel

4. Nerve Block Needle

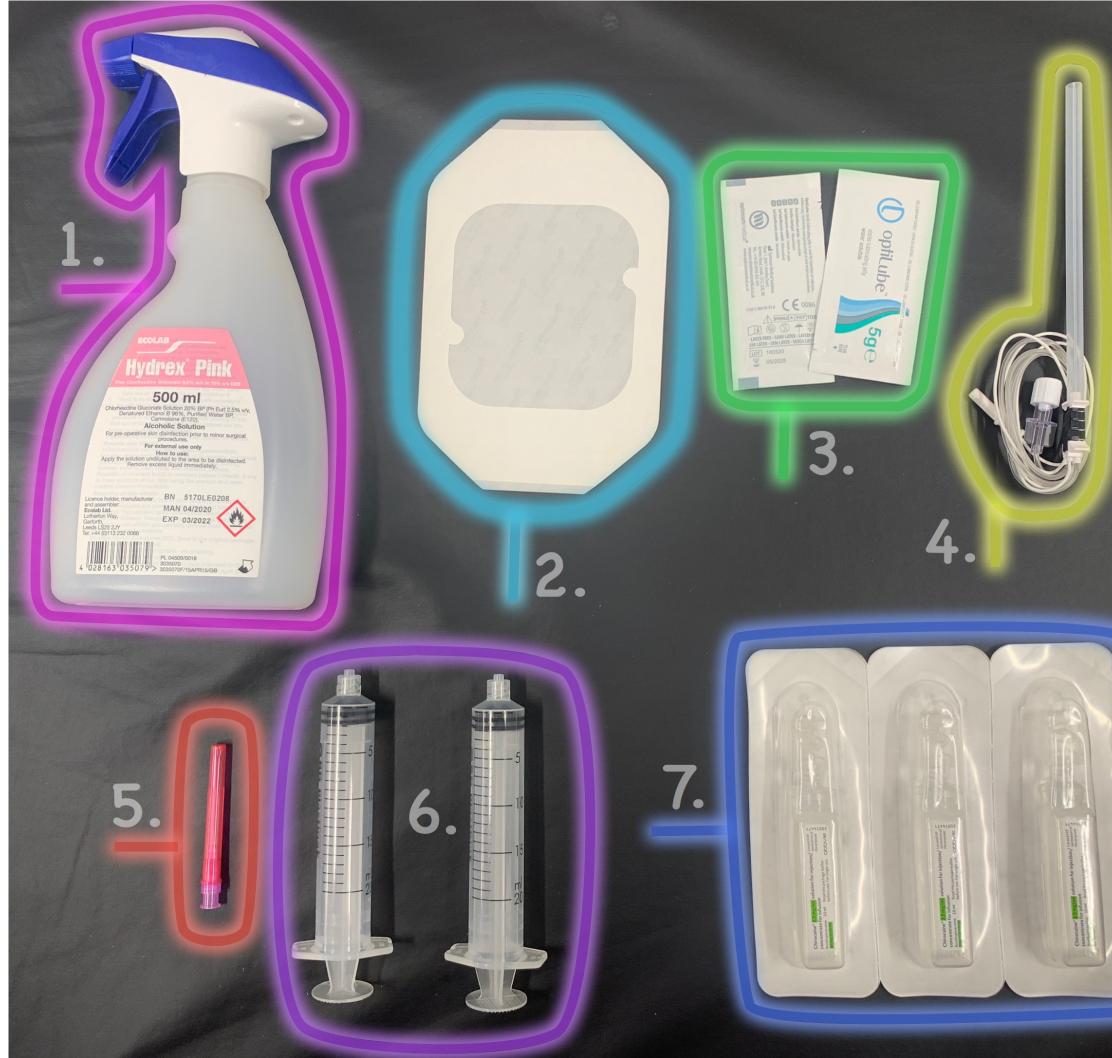
5. Drawing up needle

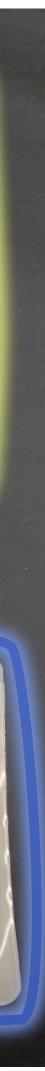
6. 20ml Syringe x2

7. Anaesthetic

Fascia Iliaca Block

KIT





ANAESTHETIC DOSE

- Drug: Levobupivicaine 0.25% (2.5mg/ml)
- MAX Dose: 2.5 mg/kg
- MAX Volume: Iml/kg
- Recommended Volumes (Adults):
 - **30-50kg** 30ml
 - >50kg 40ml



CONSENT

Pros

- Analgesic Effect <30min
- Duration 12-22hr
- More effective than NSAID + Opiate
 Nerve Damage (Temp/Perm)
- Reduced Opiate usage
- Less Nausea
- Less Pneumonia
- Earlier Mobilisation (Post-OP)
- Reduced Delirium

Fascia Iliaca Block

Cons

- Intravascular Injection
- Local Anaesthetic Toxicity
- Infection
- Block Failure
- Allergy
- Injury due to leg weakness/numbness

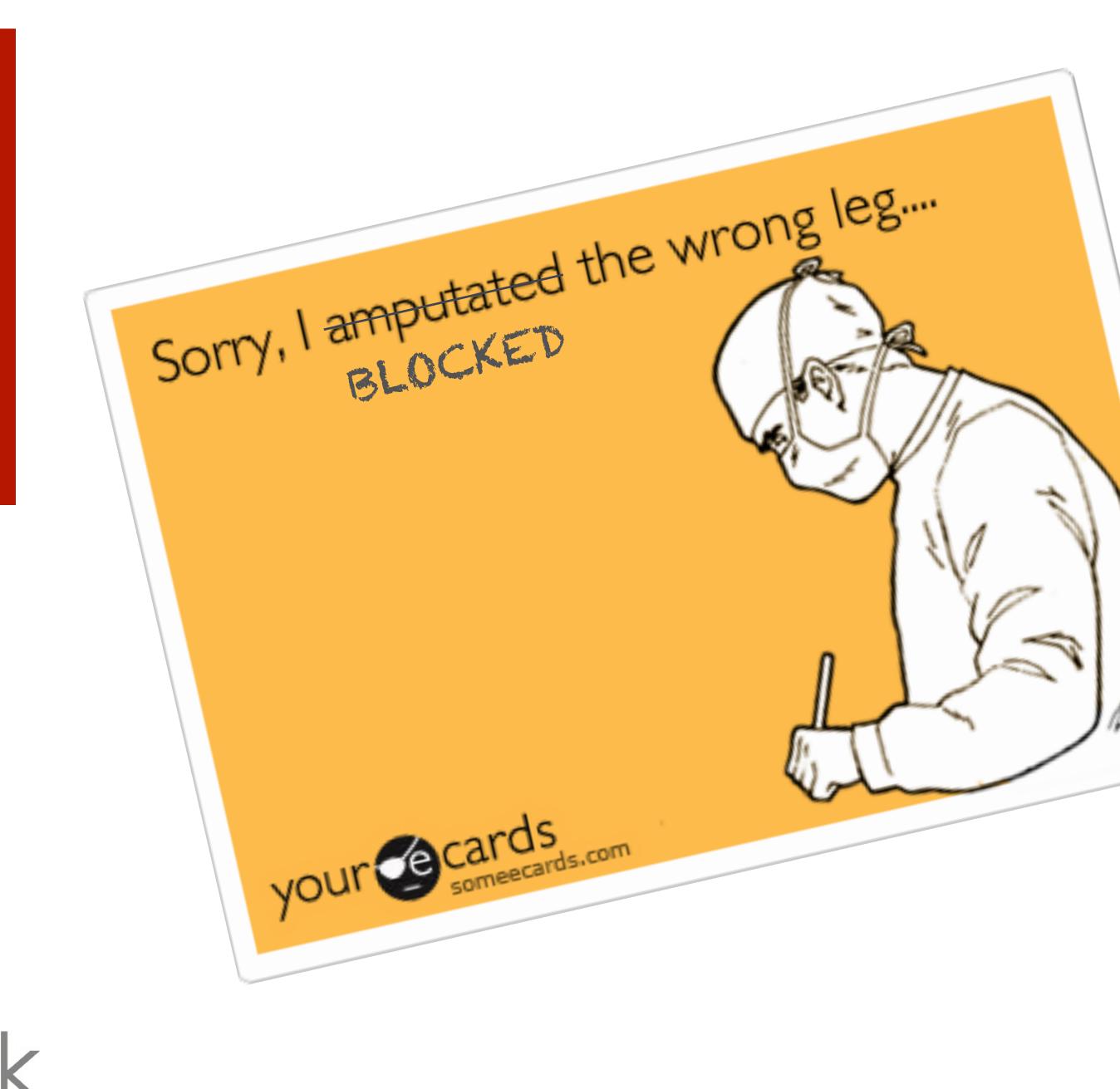
)NASS

STOP before you BLOCK

Immediately before inserting needle

Check Site with:

- I. Patient (if possible)
- 2. X-Ray
- 3. Site marking



POST-PROCEDURE MONITORING

Peak Absorption/Effect: 15-30min

I.Observable Cubical

2.Cardiac Monitor

3.Obs: 5, 10, 15, 30 min



LOCAL ANAESTHETIC TOXICITY

I. Recognise

- Sudden alteration in mental sate, severe agitation, LOC, seizure
- CVS collapse, sinus bradycardia, conduction block, systole, VT

2. Initial Management

- A. Maintain Airway
- B. 100% Oxygen
- C. IV access + 0.9% Saline
- D. Seizures : Benzodiazepine
- 3. Lipid Treatment if above not working
 - Bolus: I.5ml/kg 20% lipid emulsion (intralipid)
 - 2. Infusion: I 5ml/kg/hr 20% lipid emulsion (intralipid)

4. Report

Fascia Iliaca Block

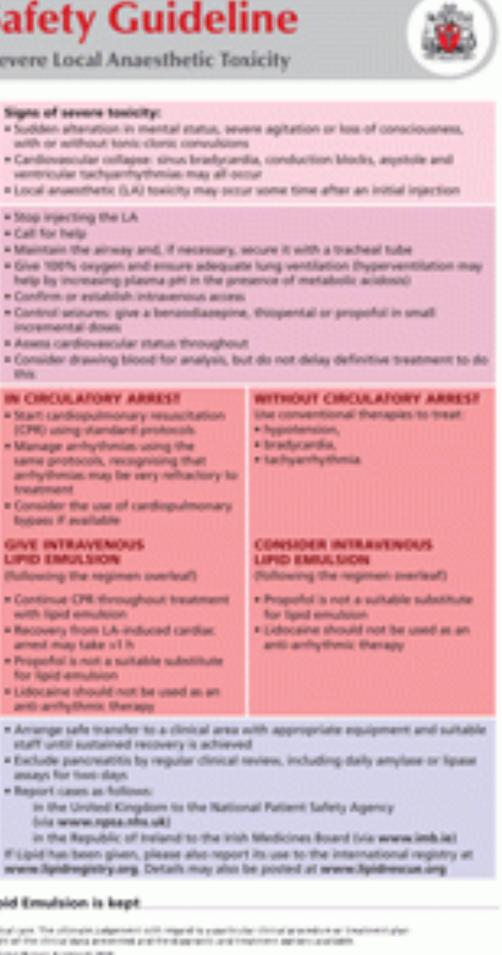
AAGBI Safety Guideline

Management of Severe Local Anaesthetic Toxicity

1 Recognition	Signs of severe toxicity: = Sudden alteration in mental status, severe agitation or loss of con- with or without toxic clores consultants = Candiovascular collapse: sinus briefpcantia, conduction blocks, any semplicular tachyaminythmias may all-occur = Local anaesthetic (LA) toxicity may occur some time after an initial	
2 Immediate management	 Stop injecting the LA Call for help Maintain the airway and, if necessary, secure it with a tracheal hule Give 100% oxygen and ensure adequate lung ventilation (hypervector) by increasing plasma phi in the presence of metabolic acidosi Confirm or establish intraveneus access Confirm or establish intraveneus access Confirm of establish intraveneus access Control accurs give a benzostiaregine, throughout Assess cardiovescular status throughout Consider drawing blood for analysis, but do not delay definitive to this. 	
3 Treatment	IN CIRCULATORY ARREST Start: Landiopulmonary resultation (CPR) using standard protocols Manage antivitimias using the same protocols, recognising that antivitimias may be very reflactory to treatment Consider the use of cardiopulmonary logoes. If available	WITHOUT CARCULATO Une conventional therapi - hypotheration, - brackpranthy - tachyamhythesia
	GIVE INTRAVENOUS LIPID EMULSION Dullowing the regimen overlead?	CONSIDER INTRAVER LIPID EMULSION
	Continue CPB throughout treatment with lipid emulsion Recovery from LA-induced cardiac ament map take s11 h Propolal is not a suitable substitute for lipid emulsion Lidocaine should not be used as an anti-anti-pthres; therapy	Propolici is not a suitate for lipid emutisori Lidocaine should not be anti-antiptivnic therapy
4 Follow-up	Arrange safe transfer to a clinical area with appropriate equiper staff until sustained recovery is achieved Exclude pancreatitis by regular clinical review, including daily an assays for two days Begorf cases as follows: In the United Kingdom to the National Patient Safety Agency (or www.npsa.nts.uk) In the Republic of Instant to the Intel Nedicines Board (or with Filipid has been given, please also report its use to the internation	

Your nearest bag of Lipid Emulsion is kept

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Is the patient suitable for Fascia Iliaca Block?

- Consent
- Set-up
- STOP Before You BLOCK!!!
- Monitor

 Local Anaesthetic Toxicity Fascia Iliaca Block

SUMMARY

