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| **EMERGENCY DRUGS FOR VASCULAR SURGERY** | | | |
| **DRUG & Presentation** | **METHOD OF DILTUTION** | **FINAL DRUG CONCENTRATION** | **NOTES** |
| **Adrenaline**  *Vial of 1:10000 in 10ml* | 20ml syringe  1ml of 1:10,000 adrenaline and 19ml of NS | 5mcg/ml |  |
| **Calcium Chloride**  *Vial of 10% CaCl2 in 10ml* | **Neat** in 10 ml syringe | 10mg/ml | Maintain Ca 2+ >1.1 mmol/l |
| **Phentolamine**  *Vial of 10mg in 1ml* | 10ml syringe:  1ml of 10mg Phentolamine and 9mls of NS | 1mg/ml | **NOT TO DRAW UP Ensure availability in fridge**  *Loading dose 0.5 to 1ml* |
| ***GTN\****  *Vial of 50mg in 50ml* | *10ml syringe:*  *1ml of GTN and 9ml of NS* | *100mcg/ml* | ***\*Check with anaesthetist if requested***  *Loading dose 200mcg to 300mcg* |
| ***Esmolol\****  *Vial of 100mg in 10ml* | ***Neat*** *in 10 ml syringe* | *10mg/ml* | ***\*Check with anaesthetist preferred beta blocker***  *Loading dose: 250 to 500mcg/kg over 1min* |
| ***Labetalol\****  *Vial of 100mg in 20ml* | ***Neat*** *in 20ml syringe* | *5mg/ml* | ***\*Check with anaesthetist preferred beta blocker***  *Loading dose: 5 to 20mg over 1 min- repeat after 10min if target not achieved* |
| ***Metoprolol\****  *Vial of 5mg in 5ml* | ***Neat*** *in 5ml syringe* | *1mg/ml* | ***\*Check with anaesthetist preferred beta blocker***  *Loading dose: 1 to 2 mg* |

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| **OTHER DRUGS in Vascular surgery** | | | |
| **DRUGS and presentation** | **Method of dilution** | **DOSE** | **Notes** |
| **Heparin**  **5000iu in 5ml** | 5ml syringe- Neat | Give 50iu/kg on surgeon request | -**NOT TO DRAWN UP**- Place on top of anaesthetic machine in theatre  -consider reducing dose if renal failure  -***Must be given minimum 1hour after any neuroaxial block*** - Delay injection if requested within less than 1h (risk of spinal haematoma increased).  -Aim for ACT @ 250s |
| **Cefuroxime 1.5g** | 20ml syringe | 1.5g | -Repeat dose of 750mg if surgery>4hours  -If allergy give **Clindamycin 600mg** |
| **Vancomycin 1g** | Dilute 1g in 100ml bag of saline | 1g | -To give over 60min  -Single dose |

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| **DRUG INFUSIONS** | | | |
| **DRUG & Presentation** | **METHOD OF DILUTION** | **FINAL DRUG CONCENTRATION** | **NOTES** |
| **Remifentanil**  Vial of 2 mg | 50ml syringe:  2mg of Remifentanil in 50ml of NS | 0.04mg/l | TCI pump |
| **Noradrenaline**  Vial of 4mg in 4ml | 50ml syringe:  4mg of noradrenaline in 46 ml of NS or D5% | 0.08mg/ml | Medfusion pump to run mcg/kg/min |
| **Adrenaline**  Vial of 1mg in 1ml X 4 | 50ml syringe:  4mg of Adrenaline in 46ml of NS or D5% | 0.08mg/ml | Medfusion pump to run mcg/kg/min |
| **GTN**  Vial of 50mg in 50ml | 50ml syringe-Neat | 1mg/ml | Pump to run ml/h |
| **Esmolol\***  **Vial of 100mg in 10ml x 5** | 50ml syringe-Neat  5 vials in 50ml | 10mg/ml | *\*On anaesthetist request*  Pump to run ml/h  *Dose: o.3ml/kg/h to 1,2ml/kg/h (50mcg to 200mcg/kg/min)* |
| **Sodium Bicarbonates 8.4%\***  Bottle of 100ml | \*50ml syringe-Neat  or  \*Burette | 84mg/ml | \**On anaesthetist request*  Pump to run ml/h or burette  *Dose: Start at 5ml/h increase during AoCX* |

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| **OTHER EQUIPMENT** | | |
| **EQUIPEMENT** | **SET UP** | **Notes** |
| **ACT Machine** | -Ensure test tubes available | Target ACT for open/endovascular procedure **250s** |
| **TEG Machine** | -Baseline TEG (kaolin **and** Functional fibrinogen FF)  -Subsequent TEGs(Kaolin **and** FF):  Before Ao CX, 30min after AoCX and 30min after removal CX  Before closing  If major blood loss | Use *heparinised* cup if heparin given  Use TEG algorithm to guide blood products |
| **Level 1 infuser** | -Set up for open Aortic Surgery | -On stand by if endovascular procedure |
| **Fluid warmer** | -Set up for all major surgery |  |
| **Bair Hugger** | -2 machines: one for upper-warming one for under-warming |  |
| **Drip stand with 6 infusion pumps** | -Must include: 1 TCI pump and 2 Medfusion pumps | All the 6 pumps on the same drip stand |
| **Pressure transducers** | -2 transducers minimum (arterial &venous) set up | \*Possibility for open TAAA to monitor 3 to 4 pressure –*Check with anaesthetist*  1 solo transducer with dedicate bag if CSF pressure monitored |
| **Blood tracking device** | -All vascular patient must have 2 printed ID wrist band with legible bar code |  |
| **Blood & Blood products** | -Ensure blood in the fridge or with blood bank | Blood bank Ext 21157 or bleep 1611 out of hour |
| **Lines** | -Quad lumen & arterial line  \*Swan ganz introducer, \*Vasc cath, \*Spinal drain, \*Epidural Kit | \* on anaesthetist request |
| **Cardiac ouput monitoring** | \*INVOS, \*TOE, \*Oesophageal Doppler | \* on anaesthetist request |
| **Cell saver** | Set up by the scrub team for all open aorta. |  |

