IMMEDIATE POST-OPERATIVE FLUID MANAGEMENT

What is the serum potassium level of my patient?

- K+ < 4.5 mmol/l → Give 20mmols KCL/50mls 0.9% Sodium Chloride
- K+ 4.5-5.0 mmol/l → STANDARD IV FLUID MAINTENANCE **PAUSE WHEN GIVING POTASSIUM**
- K+ > 5.0 mmol/l → Standard fluid maintenance
  - Reassess CVP
  - Reassess UO
  - Pre/post-op creatinine
  - Medical/CRU review

Is the patient bleeding?

- YES
  - Follow Papworth Transfusion guidelines
  - Consider cell saver
  - Give blood/products
  - Consider return to theatre
- NO → STANDARD IV FLUID MAINTENANCE

Is my patient...

- **Hypovolaemic?**
- **Low RA <10**
- **MAP < 60**
- **Urine output < 0.5mL/kg/hour**

YES

- Good LV → COMMENCE OR CONTINUE STANDARD FLUID MAINTENANCE PROTOCOL
  Consider fluid challenge over 15 minutes
  - **RA <7** Give 250mls Fluid challenge
  - **RA 7-10** Give 150mls Fluid challenge
  - **RA 10-12** Give 100mLs Fluid challenge
  - **RA >12** NO Fluid challenge
  - **REASSESS**
- Mod/Poor LV → COMMENCE OR CONTINUE STANDARD FLUID MAINTENANCE PROTOCOL
  Consider fluid challenge over 15 minutes
  - **RA <7** Give 150mls Fluid challenge
  - **RA 7-10** Give 100mls Fluid challenge
  - **RA 10-12** Give 50mLs Fluid challenge
  - **RA >12** NO Fluid challenge
  - **REASSESS**

NO → **STANDARD IV FLUID MAINTENANCE PROTOCOL**

Good LV function
Hartmanns Solution 1000ml
<65 Years 35ml/kg/24 hours/1.5ml/kg/hr
>65 Years 30ml/kg/24 hours/1.25mL/Kg/hr

Mod LV function
<65 Years 30ml/kg/24 hours/1.25mL/Kg/hr
>65 Years 25ml/kg/24 hours/1mL/Kg/hr

Poor LV function
20ml/Kg/24 hours/0.75mL/kg/hr
Give fluids via appropriate route i.e. IV or ORAL dependent on level of sedation

To a maximum of 3L per 24hours
Always reassess requirements

REMEMBER

- Always encourage oral fluids to achieve prescribed fluid balance if patient's condition permits
- Review fluid balance before giving IV Furosemide at 0500hrs

Papworth Hospital NHS
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