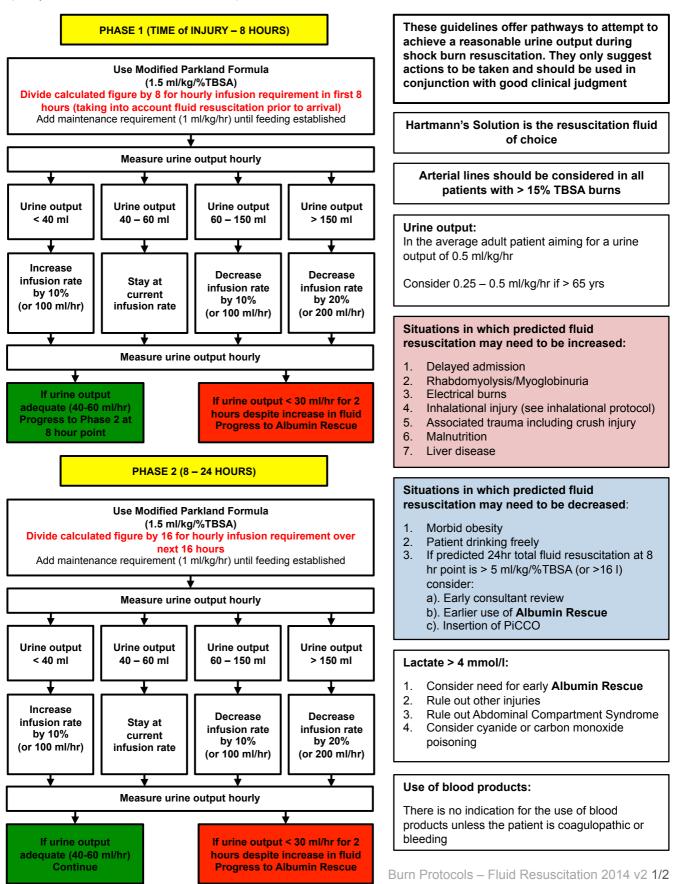
North Bristol Intensive Care Unit



BURN PROTOCOLS

Fluid Resuscitation & Haemodynamic Monitoring

(For patients with >15% TBSA burns)



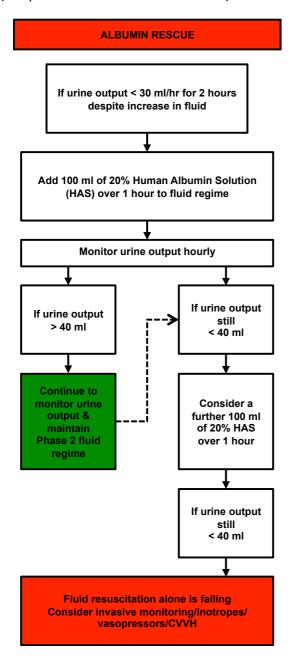
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Invasive monitoring (PiCCO):

Invasive monitoring should be considered in all patients where Albumin Rescue is failing to produce an adequate urine output

Additionally it should be considered earlier in:

- 1.Patients with cardiovascular co-morbidities
- 2.Patients with known renal impairment
- Where fluid management is anticipated to be difficult:
 a). Underlying burn pathology (e.g. electrical or inhalational injury)
 b). Other associated injuries (e.g. trauma)

Pulse Pressure Variation (PPV) via arterial line

Aim for PPV < 12%

PiCCO insertion for detailed studies

Aim Stroke Volume Variation (SVV) < 12% Aim Cardiac index (CI) > 3-4 l/min/m²

Caveats:

- 1. Potential for false negative PPV & SVV if tidal volume < 8ml/kg
- PPV & SVV targets should only be used to guide resuscitation when urine output is low

If PPV or SVV < 12% or CI < 3-4 l/min/m² consider:

- 1. Albumin Rescue if not already initiated
- 2. Start Noradrenaline infusion
- 3. Consider Dobutamine infusion
- 4. Echocardiogram
- 5. Consideration of haemofiltration

Haemofiltration:

If oliguria continues despite fluid and haemodynamic optimisation with Albumin Rescue, vasopressors +/- inotropes then a direct cytotoxic renal insult needs to be considered

If this is suspected haemofiltration (CVVH) needs to be initiated as soon as possible

If at any point fluid resuscitation is proving ineffective or there are any ongoing concerns, early burns and intensive care consultant input is mandatory.