

# Pediatric Donor Management Goals

## Hemodynamic Support

- Normalization of blood pressure
  - Systolic blood pressure appropriate for age
  - Note: Lower systolic blood pressures may be acceptable if biomarkers such as lactate are normal
- CVP < 12 (if measured)
- Dopamine < 10 mcg/kg/min
- Epinephrine 0.1 - 1 mcg/kg/min
- Normal serum lactate
- SF >0.25, EF >50%

## Systolic Blood Pressure

|                       |           |
|-----------------------|-----------|
| Pre-term              | 60        |
| Newborn               | 70        |
| Infants (to 6 months) | 80        |
| Toddler (1-2 years)   | 90        |
| Child (3-12 years)    | 95        |
| Adolescent (12+)      | 105 - 110 |

Hypotension = Systolic BP  $\leq$  70 mmHg + (2x age in years over 1 yr)

## Oxygenation and Ventilation

- Maintain PaO<sub>2</sub> 80 -100 mmHg
- FiO<sub>2</sub> 0.40
- Normalize PaCO<sub>2</sub> 35 - 45 mmHg
- Arterial pH 7.30-7.45
- Tidal volumes 8 - 10 cc/kg
- PEEP 5cm H<sub>2</sub>O
- P:F ratio >300

## Fluids and Electrolytes

- Serum Na+ 130-150 meq/L
- Serum K+ 3-5.0 meq/L
- Serum glucose 60-150 mg/dL
- Ionized Ca++ 0.8-1.2 mmol/L (if measured)

## Thermal Regulation

Core body temperature 36 - 38°C

References: John Hopkins: The Harriet Lane Handbook; NATCO, The Organization for Transplant Professionals: Updated Pediatric Donor Management and Dosing Guidelines