

Resuscitation - Conclusions

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Endpoints

- Urine output not adequate
 - Tolerate lower urine output
- Multiple endpoints
 - Endpoints frequently conflict
- Perfusion indicators desired
 - Laser doppler
 - Base deficit/lactate
 - Gut/skin perfusion indicators (not accurate)

Endpoints

- Cardiac function
 - Few use PAC's
 - Other indicators rarely used
 - Indicators need to be developed
 - Do inotrope study?
 - Define population
 - Early use?
 - Goal directed treatment has not proven valuable
 - Which inotrope? vasopressin
- Cellular markers

Stopping Capillary Leak

- Vitamin C
 - 4 centers using
 - Study in Miami, San Antonio
 - Do multicenter study
- Need cocktail
- Xigris?
- Narcotics worsen leak
- Endpoints need to defined

Best Resuscitation Solution

- LR not liked
 - Used by 95%
- Colloid used by 5%
 - Used in Europe
 - Every cheats
 - Needs a study
- Other solutions
 - Acetate (Stockholm)
- Hypertonic used by a few

Avoid Over-resuscitation

- Better Teaching
- Do QI study
- Any study will improve our compliance
- Ventilation affects
- Closed loop
- Is it really a problem?
- Tied to early over-resuscitation
 - Once started, cannot stop

Pathophysiology

- Should be studied
- Mathematical modeling
- Cellular, molecular response
- Cardiac function

Oral Resuscitation

- Important in 3rd world
- Not necessary in Western world
- Problems with tolerance
- Narcotics make worse
 - Oral narcotic antagonists