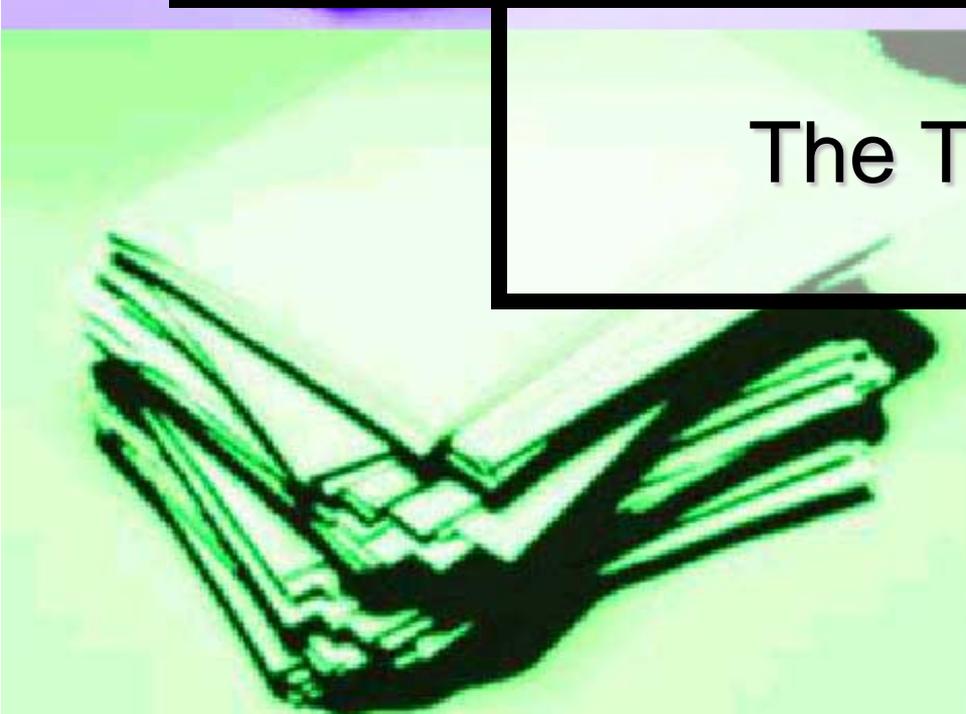




PreHospital Care and Sepsis



The Transition of Care

Identify Shock

- Why try to identify shock in the field?
- Save lives?
- 36 people per hour die from shock
- Early recognition and treatment saves half
- Early recognition and treatment saves \$\$



Sepsis

- STOP Sepsis – Strategies to Timely Obviate the Progression of Sepsis/Strengthening Treatment and Outcomes for Patients
- Survive Sepsis – Global initiative.
- STOP – Survive – what about identify?





PHC

- Early intervention/notification by PHC has improved outcomes in cardiac arrest, stroke and STEMI.
- Can we do the same for Sepsis?
 - How to identify the potential patient?
 - Provide pre-arrival notification?
 - Still evolving!



Identify Sepsis

■ NYC EMS Call types

- Unconscious with rash and fever
- Altered Mental Status
- Sick Pediatric
- Pediatric with rash and fever
- Sick with rash and fever
- Sick



Current Status

- Transport by EMS improves time to treatment for sepsis.
- Denver Sepsis Protocol
- Helitz – Scandinavia 12 articles address PHC phase of sepsis
- UK Sepsis Group Pilot project

What we know or not.

- Higher mortality in patients given antibiotics
- Effects of PHC antibiotics dependent on hospital care
- Children given antibiotics had more severe disease
- 48% of patients received fluids



A vertical stack of four images on the left side of the slide. From top to bottom: a clock with a blue background, a clock with a yellow background, a stack of papers with a green background, and a stack of papers with a purple background.

What we know or not.

- EMS use had less time to EGDT
- EMS more likely severe sepsis
- EMS improved in-hospital process but not mortality
- EMS should give antibiotics and do lactate level
- EMS shock index predicts ICU admission

What we know or not.

- EMS has poor understanding of diagnosis and management of sepsis.
- More work needs to be done.





Future Directions

- Implement pilots?
- Improve time to treatment?
- Outcome measures?
- PHC fluid resuscitation and its role?
- PHC transport times?



References

- Global Sepsis Alliance
- Denver Sepsis Protocol
- Research Studies Measure Prehospital Identification of Sepsis. JEMS March 2012
- Suspicion and treatment of severe sepsis. An overview of the prehospital chain of care. Scandinavian Journal of Trauma, Resuscitation and Emergency Care 2012, 20;42.
- PIPeLINE study
- Risk stratification and early resus.