Memphis Fire Department

Bundles of Joy

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Eagles Consortium
Memphis Fire Department

- Approximately 1,900 personnel
  - 350+ Medics
  - 1500+ EMTs
- 59 Stations
- 60 Engines
- 27 Truck Companies
- 36 ALS Ambulances
- 3 Heavy Squads
- Sponsoring Agency for USAR Tennessee Task Force 1
Demographics

- Annual Call Volume  110,000 runs
- Stemis  2600
- CVA/TIA  1000
- Cardiac Arrests  650
What is Bundling?!?!  

• It’s a cohesive group of steps that must *all* be completed to succeed.
• All accepted best practices.
• Focused on *how* to deliver the best care — not *what* the care should be.
• *all-or-nothing*!
• All the Time!
Ain’t it just a protocol?

- Often its several protocols
- Protocols often leave room for judgment
- May give the impression that things are done at the end of the protocol.
Just a checklist?

- Combination of desired actions and evidence based actions
- Usually many elements.
- No identified accountability, or everybody’s!
A Bundle is...

- A bundle is a small but critical set of processes that *cannot* be missed.
- When an element is missed, the patient is at much greater risk for serious complications.
- A bundle is a person or a team’s responsibility — period.
- It has a specific time frame.
Sample Bundle

- Cardiac Arrest
  - Continuous, High quality CPR
  - Early Defibrillation
  - Waveform Capnography
  - Induced Hypothermia (intra-arrest)
  - Post ROSC 12 lead
CVA / TIA

- Stroke Scale
- Time of Onset
- Delivery to Stroke Center
- Tight Glucose control
- Appropriate Oxygen Use
STEMI

- 12 lead EKG..transmitted
- Aspirin
- STEMI center delivery..to cath lab
- Activation to balloon <90 minutes
Implementation

Laminated cards for each bundle
Lieutenants real-time oversight
Qi review and feedback

“If all the bundle isn't done before arrival, you're not finished!!”
So....

- Implementation just beginning with Cardiac Arrest, but have seen increased use of capnography, Hypothermia, and

- Last 5 months...
  - 100% STEMI
  - A to B time 74 minutes!
Questions?

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