mCPR in Memphis

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My World

30 EMS agencies
- 26 ALS
- 2 BLS
- 2 First Responder

5000 EMS personnel

2015
- Annual EMS call volume: 150,000
- # cardiac arrests: \( \approx 500 \)

Resuscitation protocol
- Manual CPR with ITD
- Mechanical CPR with an ITD
- ResQCPR
Memphis Lucas Update

1455 patients
919 (63.1%) received LUCAS, compared to 536 receiving manual CPR
On average, it took EMS 2 minutes and 12 seconds longer from arrival to the scene to departure from the scene when LUCAS CPR was used. This difference makes the turnaround time 10% greater when LUCAS is used.

ROSC Rates are currently 31.4%
Impact of ResQPR

Collierville (TN) Data for 110 patients
- Pre-ResQPR
  - Jan 2014 – Jul 2015: 17/66 (25.7%)
- With ResQPR
  - Aug 2015 – Feb 2016: 18/43 (41.8%)

62.5% improvement in ROSC with ResQPR

47.1% Neurologically intact