

Data Mining

Hitting the Mother Load with Competing Hospitals

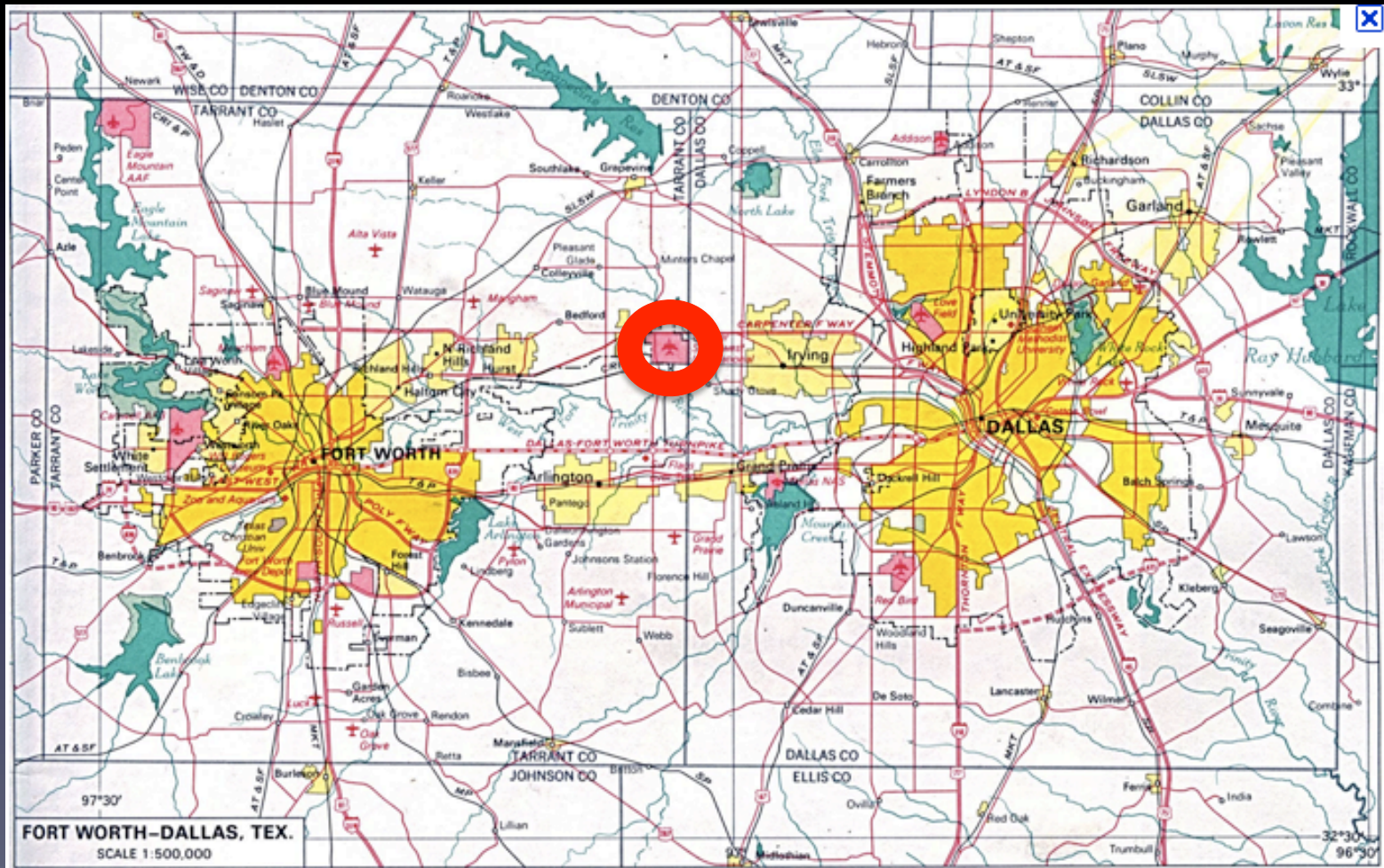


Jeff Beeson, DO, EMT-P, FACEP

Medical Director

Fort Worth, Texas

Fort Worth



Daily Cattle Drive



Barbeque



MedStar

- EMS Established by City Ordinance
- Public Utility Model
- 15 Cities
- 421 Square Miles
- 880,000 Population



MedStar

- 100,000 EMS Calls/Year
- 52 Ambulances
 - System Status Management
 - EMT/Paramedic
- \$27 million
 - No Government Subsidy



Emergency Physician's Advisory Board

- Established by City Ordinance
- Directs Clinical Care of MedStar
- Board Composition
 - Emergency Department Directors
 - Trauma Directors
 - Medical Society Appointees

EMS in Healthcare System

- National Organizations
- Physician's Board
- Medical Societies
- Hospital Councils



Why Do They Need Us?

EMS Data Uses

- Quality Improvement
- Staffing
- Supplies
- Hospital Issues
 - Nursing Home Transfers



Texas State Health and Safety Code 241.153. Subsection C

allows hospitals to share information with
EMS services for the purposes of quality
improvement, medical audit, and
competency assurance without written
authorization
from the patient.

Chest Pain Center

- Accrediting Body
- Certification
- EMS Involvement
- Data Sharing
- Cardiac Committee



Quality Improvement

- Transport Review
 - Emergency Call to Dispatch
 - On Scene to Electrocardiogram
 - Recognition to Activation
 - Transport Mode

Quality Improvement

- Hospital Review
 - Emergency Department Delays
 - Activation Times
 - In Department Times
 - Intervention Laboratory Times
 - Outcomes

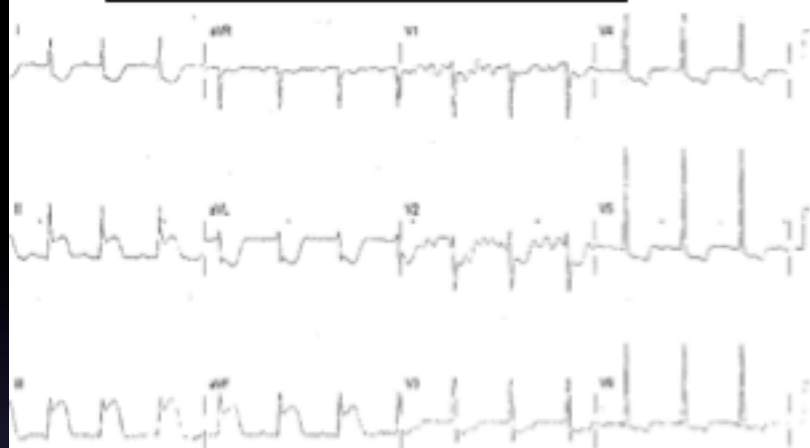


STEMI Alert

October 31, 2011

ED: Dr. DeMoor
Card: Dr. Kumar

Prehospital EKG @ 23:59



In House EKG @ 00:12



50 year old male arrived via MedStar c/o chest pain/SOB x 2 hours. PMH HTN, smoker.

23:59 – EMS EKG STEMI recognized
(Aspirin given by EMS—no run sheet found for time)
00:02 – STEMI Alert activated by Dr. DeMoor
00:08 – Arrival to ED
00:12 – Initial EKG done in ED
00:26 – Call Team arrival
00:57 – PCI to 100% RCA

Staff Involved:

ED

Charlotte Towler
Heather Gilliam
Erinn Murrell

Cath Lab

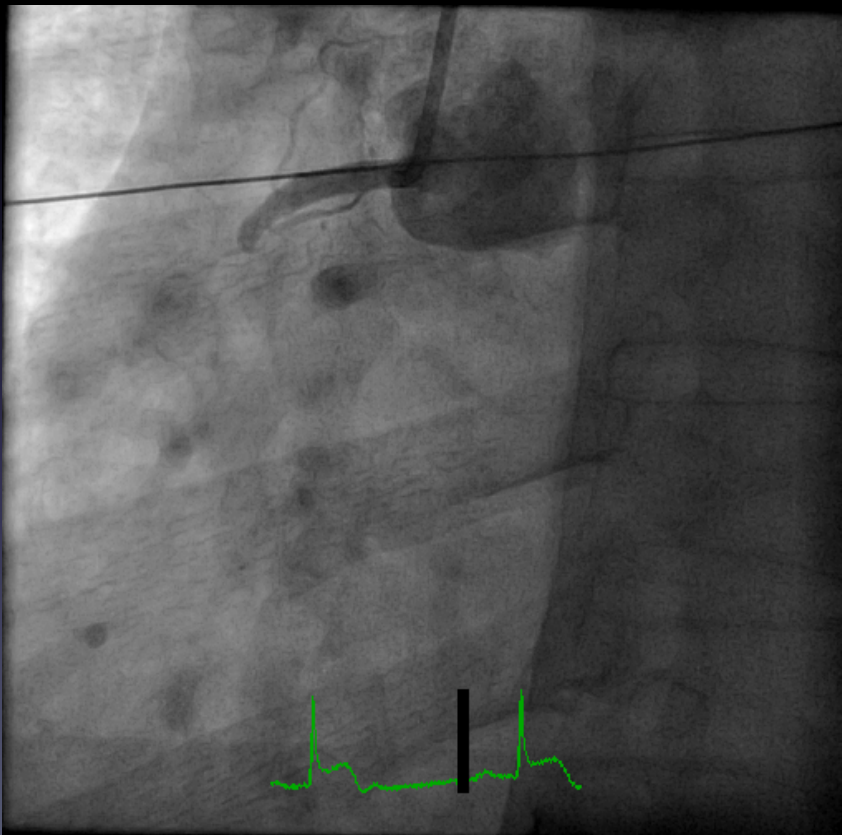
Joel Sherwood
Jim Westerhoff
Charissa Lobb

Door to ED ECG: 4 min.
ECG signed to STEMI Alert: 3 min.
STEMI Alert to Cath Lab Arrival: 24 min.
Pt Arrival in lab to Device Deployment: 17 min.
Total D2B: 49 min.

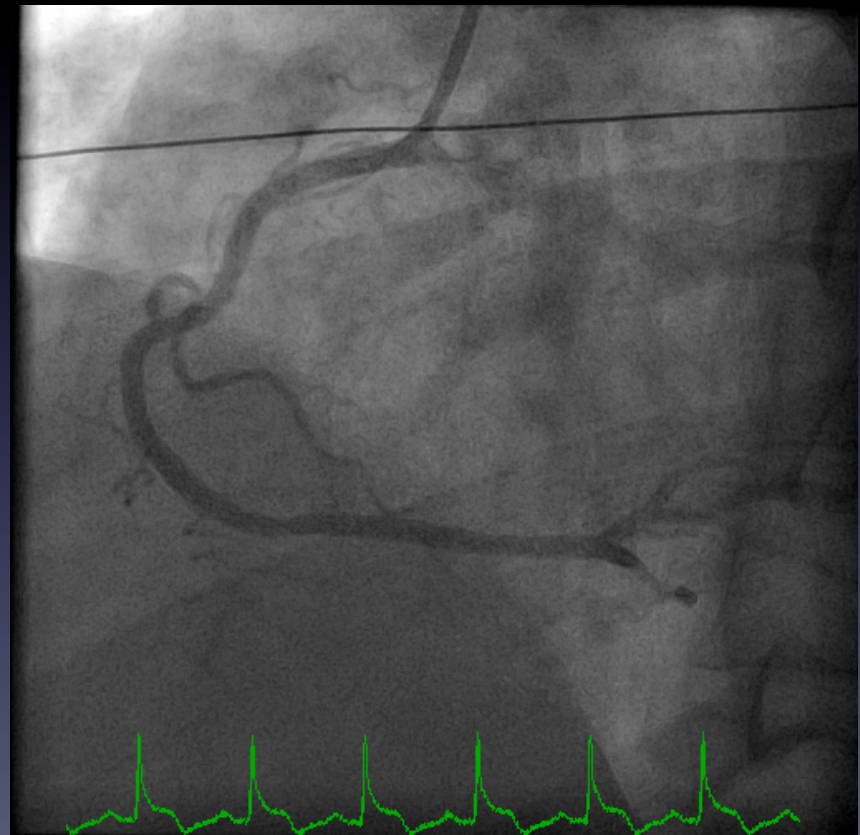
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100% Prox RCA Lesion Aspiration, Balloon, and Stent x 1

Before



After



Similar Feedback

- Acute Stroke
- Trauma
- Sepsis Alert
- Interesting Cases
 - Monthly Grand Rounds



Current Data Mining

- Frequent Users
- Community Patients
- Mental Health
- Health Record Exchange
- Open Access to EHR



EMS is NOT Aviation



EMS is
Only and Always
about
Patient Care

Thank You