EMS Reinvented: Tele-Paramedicine

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Communications Technology Advisor
National Association of State EMS Officials
National Association of EMS Physicians
National Association of EMTs
National Association of EMS Educators
National EMS Management Association

FirstNet Board Member 2012 - 2018
Paramedics in the Lake District are trialling a new method of rescue.
It’s a bird, it’s a plane….no, a Paramedic!

Pilot reports 'guy in jetpack' flying near plane in Los Angeles

A pilot landing an American Airlines jet at LAX reported a bizarre and close encounter.

Pilot: “Off the left side at uh, maybe uh, 300 yards or so, about our altitude.”
Advanced Automatic Crash Notification
Injury Severity Predictor Allows Early Launch of Resources
EMS UAS/Drone for Scene “Preview”
STAND-OFF VITAL SIGNS:
PATIENT VISIBLE BUT CRITICAL

SPO2 -- 82
H R -- 122
B P -- 84/58
R P M -- 22

Patient Database Online
ON-SCENE VIDEO
MEDICAL NOTES
VITAL SIGNS
PATIENT DATABASE #1
PATIENT DATABASE #2
PATIENT DATABASE #3
PATIENT DATABASE #4

HELICOPTER INDICATED FOR TRANSPORT
Project ETHAN Reducing ED Transports in Houston

- Telehealth Treatment in Place
- Alternate Destinations
- CMMI ET3
Other Tele-Paramedicine Examples

- Virginia – Field Neuro Assessment (Dr. L)
- Pennsylvania – 19 Units Equipped for Telehealth (Dr. K)
Built for Kardia Mobile.
The patient-preferred personal EKG.

Contact Lens Monitor
- Blood Sugar
- Gout
- Liver Disease
- Glaucoma
- HIV
- Cancer
- Silent Heart Attack
Tele-Paramedicine Monitoring/Interceding Environment

- Ambulance
- Community Paramedic
- Home Health Nurse
- Community Health Worker
- MIH Team
- Uber/Lyft/Taxi
- CMMI Telehealth Treat in Place
- CMMI Alternate Destination

- Pacer/Defibrillator
- Insulin Pump
- Sugar Pump
- Monitors/Alarms

- Triage Paramedic
- Triage Nurse
Tele-Paramedicine Communications Center Example

Pennsylvania – Geisinger Area (Dr. K)
Addressing The Rural EMS Dilemma: Community Paramedicine & Tele-Paramedicine

- CT/Portable Ultrasound
- Point of Care Labs
- Other Imaging/Diagnostics
- Telehealth Treatment in Place
In the future your ambulance could be driverless