

SPARROWNET™

Florida's Emergency Tele-Network



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Florida Emergency Trauma Tele-Network

- Leveraging telepresence for trauma
 - Florida Department of Health
 - U Miami Miller School of Medicine
 - Health First
- SPARROWnet™
 - Initiative for disaster management
 - Training, education and mutual aid

SPARROWnet™

- **Secure**
- **Portable**
- **Accessible**
- **Redundant**
- **Reliable**
- **Operational**
- **Woven**
- **NETwork**

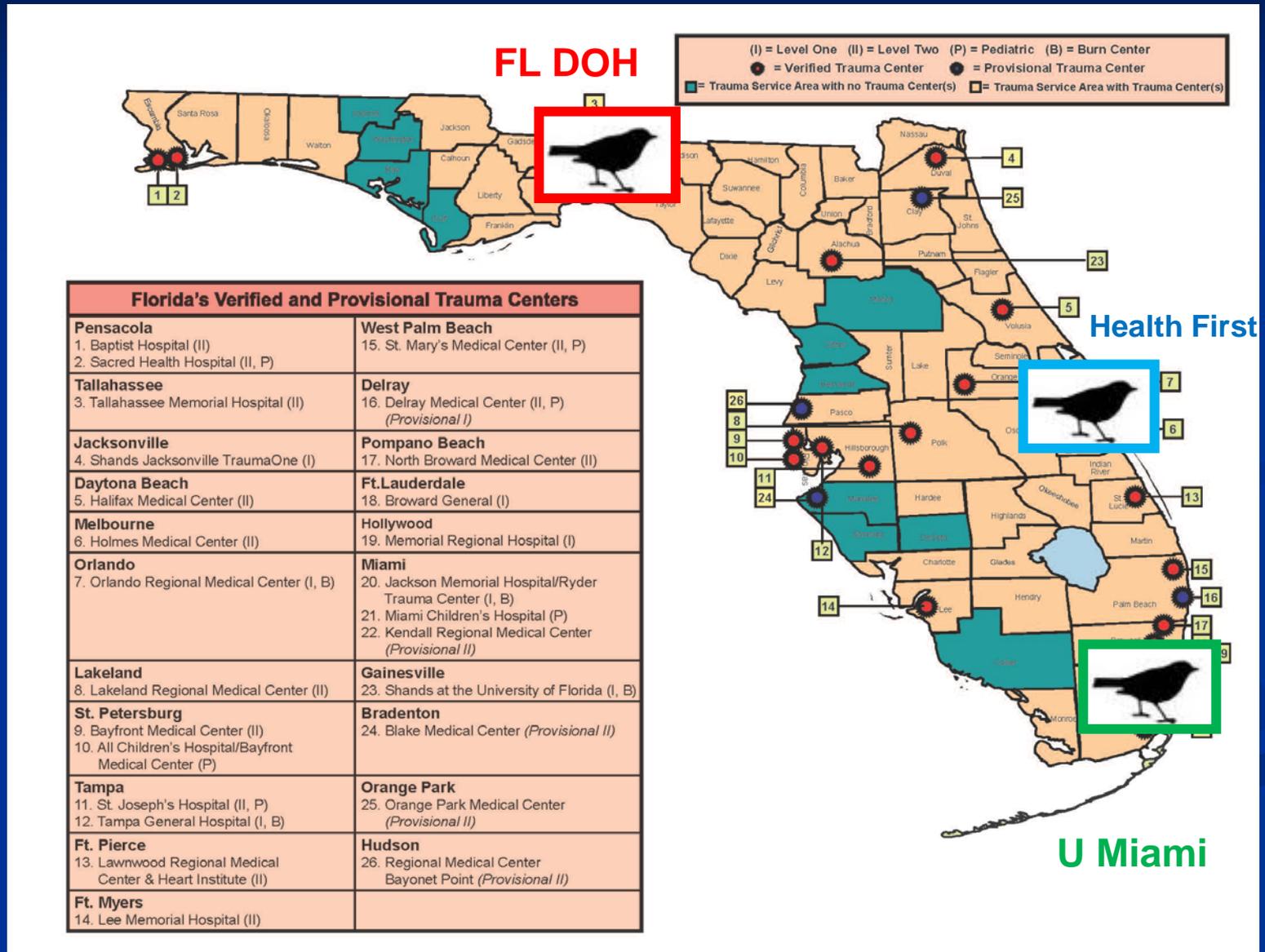
Objectives

- **Testing the FETTN**
 - **SPARROWnet™ disaster exercises**
 - **Virtual Instruction**
 - **Real World Activation**

Materials and Methods

- **Tele-presence connections**
 - **23 of 25 Florida Trauma Centers**
 - **“Hub and Spoke” Model**
 - **April, 2012 to August, 2013**

SPARROW “Nest” Tele-Presence Hubs



SPARROWnet™ Disaster Exercises

- Four Exercises Deploying FETTN

- Radiologic event
- Hurricane response
- Bomb, blast and burn



- Average of five centers per drill

- Video-enhanced transfers
- Triage support
- Specialist expertise



Education

- **Virtual Instruction**
 - **DMEP**
 - **FCCS**
 - **Emergency Procedures**

- **UM International Tele-Rounds**
 - **60 Trauma Centers**
 - **Four Continents**



Hurricane Isaac 9/2012

- **First Real World Activation**
 - **Nine Trauma Centers**
 - **Florida Department of Health**
 - **Florida EMS Leadership**



FETTN and SPARROWnet™

- **Successful beginning**
 - **Model for other states and regions**
- **Leveraging the power of telemedicine**
 - **Overcome geography to deliver aid**
 - **Enhance on-site resources**
 - **Creating stronger, integrated care**

SPARROWnet™ and the First Responder

■ New Challenges

- The Era of the “Active Shooter”
- High-risk, multiple casualty events

■ Objectives

- Link medics and trauma centers
- Real-time support to first responders
- Enhance first receiver preparations

TacTel™-Tactical Telemedicine

- Pilot program begun 2011
 - Health First Trauma and Palm Bay
 - Chief of Police Douglas Muldoon
 - Police Captain John Resh EMT-P
 - District Chief Gaius Hall RN EMT-P



Materials and Methods

- TAC-TEL™ equipment
 - Secure, wireless link
 - Health First Telepresence Network
 - 4G LTE connection
 - Tablet, hand-held devices
 - Mobile cart at trauma center



Results

- Evaluation June, 2011 to April, 2013
- Four SWAT training exercises
- 18 patient scenarios
 - Gunshot wound to the torso
 - Head injury
 - Extremity bleeding



2013 Alliance for Innovation Award



Trauma Surgeon as Mobile Health Participant

- Real-time interaction with the field
 - Tourniquet application
 - Neck and spine stabilization
 - Techniques for respiratory assistance
- Provide expertise
- *Get the facts on a patient in real-time*

A New Road for the Future

- **Mobile Health will strengthen communication between first responders and first receivers**
- **New Era in Emergency Communication as Revolutionary as the CB Radio**

Where Does that Road Lead?

A photograph of a long, straight road paved with large, dark, porous stones. The road is flanked by low, rough stone walls. The surrounding landscape is a dry, open field with sparse, scrubby vegetation and some trees in the distance under a clear sky.

FloridaNet

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Connecting the Dots



Field



Command Center



Medical Support

A final note...

“No one need ever again be lost, for a simple position-and-direction finding device could be incorporated into a (telephone) receiver...And in case of danger or accident, help could be summoned merely by pressing an “Emergency” button.

...activity...can be carried out over radio circuits. The time will come when surgeons will be able to operate...away from their patients...and every hospital will be able to call on the services of the best specialists, wherever they may be...

Arthur C. Clarke – “Profiles of the Future” 1962

Thank You!

