

CASE STUDY: Texas Health Resources



- **\$1 Million in 1st year savings**
- Increased inpatient throughput
- Better utilization of equipment as well as a reduction in rentals and shrinkage
- Employee engagement scores **at 90th percentile**
- Patient satisfaction **up to 95th percentile**

*"The long-term goal of RTLS is full integration with internal information systems for EMR, Lab, and RAD, among others. **The activating principle for this system integration is 'measuring and managing the patient journey' where the entire patient experience can proceed in an efficient and clinically effective manner.**"*

*– Kathi Cox, Senior Director
System Integration & Innovation Office
Texas Health Resources*

Texas Health Resources Enhances Patient Experience & Safety with CenTrak RTLS

Background

During a recent construction project, Texas Health Resources (THR) was given an opportunity to rethink their approach to healthcare delivery and the role technology could play in improving the patient experience. In an effort to build a "Hospital of the Future" and move beyond a "business as usual" approach, hospital executives explored the potential virtues of a mobile health culture. Ultimately, they elected to build a next-generation wireless system into their new construction project. THR leveraged a real-time location system (RTLS) to automate non-value added tasks to connect caregivers to equipment, patients and one another.

Use Cases & Results

Patient and Staff Safety

During a measles outbreak in Fort Worth, Northern Texas, THR leveraged RTLS data to implement an effective communications strategy. Since all of their patients and staff were tagged, the facility was able to run a report which showed all team members' schedules and location. They ran this data against a current vaccinations report, and were able to send out targeted messages to all those who came into contact with the infected patient and whether or not they were at risk. The location-enabled data prevented the miscommunication / grief a mass email (to non-relevant hospital staff) would have caused.

Resource Management

Resource Efficiency and Utilization

- Created new "Mission Control" department whose sole purpose is to improve internal logistics and workflow efficiency
- RTLS enables the team to manage call codes, operators, mobile equipment, patient transport, oxygen tanks, equipment PAR-levels, etc.

Patient Flow and Capacity Management

- Developed an algorithm to prioritize all tasks related to patient care and transport
- Increased efficiency by allocating 100% of staff resources to transport during peak times
- Administrative tasks can be assigned for off-peak hours
- Increased patient capacity and decreased length of stay with room status visibility

What makes CenTrak Smarter?

Clinical-Grade Locating™ – CenTrak's Second Generation Infrared (Gen2IR™) delivers certainty-based location data covering rooms, beds, bays, nursing stations, hallway segments and other relevant workflow areas. Rapid location and condition updates reliably capture interactions between equipment, patients and staff within seconds.

Multiple form factors – Largest selection of tags including reusable, single use, infant, wander, and staff badges provide options for all types of patients and care environments.

Multi-Mode Technology – A unique combination of Wi-Fi, CenTrak's Gen2IR, Low Frequency RF, UHF Active RFID, Bluetooth Low Energy (BLE), and others to future-proof investment and maximize ROI.

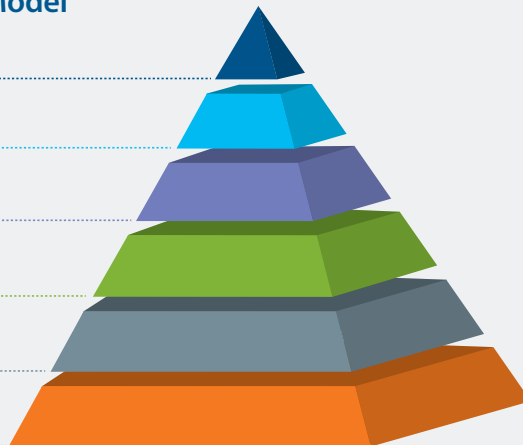
Easy Installation – Battery-powered devices are installed easily in patient care areas without the need to close rooms or deploy special infection prevention measures.

Interoperability – Open location platform for seamless integration with both existing and new applications including Nurse Call, Electronic Health Records, Capacity Management, Bed Management, Asset Management, Computerized Maintenance Management and Hand Hygiene Compliance

Reliability – Ensures critical location, condition and status updates are delivered to the application level. Enterprise-class monitoring provides at-a-glance visibility. Devices and tags are equipped with long-lasting batteries.

Location Adoption Model

- Application Specific
- Sub-Room
- Clinical-Grade
- Limited Certainty
- Zones
- Presence Detection



- Hand Hygiene
- Capacity Management
- Staff Location
- ED Workflow
- Perioperative Workflow
- Asset Management
- Staff Duress
- Nurse Rounding
- Patient / Infant Safety
- Sterile Processing
- Asset Security
- Asset Tracking
- Wayfinding
- Inventory Management
- Nurse Call Automation
- Contact Tracing

CenTrak's Enterprise Location Services leverage multiple technologies to maximize utility and ROI.

Patient Tags

Patient Tag Mini



newbaby™ Umbilical Tag



31-Day Tags



Asset Tags



Asset Tag Mini



Asset Tag Micro



Multi-Mode Asset Tag

Staff Tags



Staff Badge



Duress Badge

Temperature / Environmental Sensors



Environmental Sensor



Environmental Sensor LCD



For more information please visit our website
www.centrak.com, email us at marketing@centrak.com
or call us toll-free at 800-515-2928.

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