



Results at Wayne Memorial

Embracing New Technology to Ensure High Quality Care:

Wayne Memorial Hospital Adopts Real Time Location System

CASE STUDY:

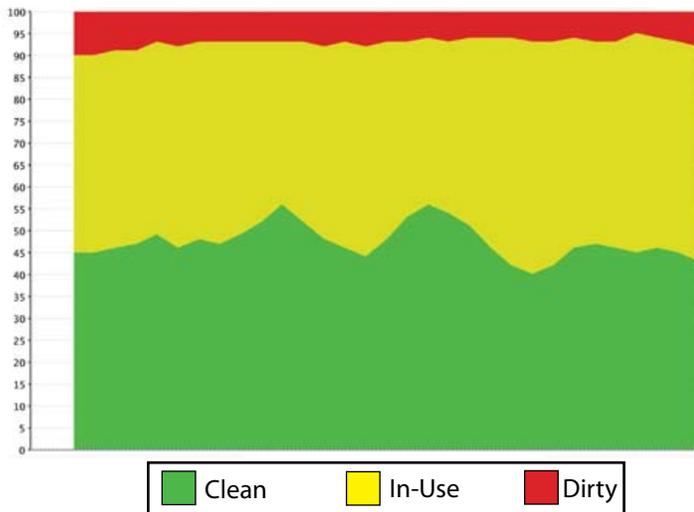
Faced with the ongoing expense of tracking and replacing expensive IV pumps and other mobile equipment, Wayne Memorial Hospital, an independent, Goldsboro, North Carolina-based 316-bed not-for-profit hospital, was in dire need of a technology that could quickly and reliably track the location and status of their equipment. In 2006, Operations VP Thomas Bradshaw implemented RadarFind's Real Time Location System (RTLS).

Bradshaw appreciated that the RadarFind solution resulted from two years of careful, physician-guided research and a deliberate focus on the needs of hospitals. As healthcare insiders and hospital infrastructure experts, the RadarFind team developed technology that was non-invasive, easy to install, and easy for staff to learn and use.

"Balancing patient care, staffing concerns, and constant financial pressures is a daily reality for hospitals," explains Michael Nelson, president and COO of RadarFind Corp. Our solution helps in all three areas without creating new problems."

Asset Utilization Report: Infusion Pumps

Asset utilization between 3/01/2007 and 3/31/2007 for Infusion Pumps, All Floors



3-Position Status Tag Provides Location and Status for Utilization



DIRTY/Needs Cleaning



IN-USE/With Patient



CLEAN/Available



"We saved more than \$300,000 by not purchasing IV pumps we didn't need. An asset tracking system that works reliably can pay for itself in very short order, especially when the time comes to purchase IV pumps. We reduced the number of pumps by about 20% from the quantity we had prior to implementing the asset tracking system."

Mark Renfro
Manager, Clinical Engineering

"If the nurses can find the pumps when they need them, they don't need as many."

Shirley Harkey
VP and Chief Nursing Officer

"Hospitals flood the nursing units with pumps because the staff can't find them — an unfortunate waste of valuable resources."

Tom Bradshaw
VP of Operations

Return on Investment

Reduction of infusion pump purchases:

- Capital Purchase Savings **\$ 276,235**
- Annual Operating Cost Savings **\$ 27,000**

Reduction of bladder scanners: **\$ 24,000**

Additional cost avoidance and reductions: **\$ 75,000**

TOTAL RETURN ON INVESTMENT: \$ 402,235





Cost Reductions from Time-Saving Technology

Key to RadarFind's ease of adoption is the technology itself. RadarFind readers plug into standard electrical outlets. Built-in antennae then pick up signals from unique RTLS tags attached to selected equipment. These intelligent tags provide not only location, but also valuable status information on equipment. Wayne Memorial's intranet system hosts RadarFind's interactive touchscreen and web-based software, putting key data at the operational staff's fingertips instantly, while hospital administrators use the tool to monitor real-time equipment utilization.

PROCESS IMPROVEMENT RESULTS

Before RadarFind RTLS	After RadarFind Implemented
Wheelchair round-up: 16 hrs./mo. →	1.25 hrs./mo.
Locate Wheelchair: 25 min. →	10 min. (quicker transport)
Equipment inventory: 8 - 12 hrs./mo. →	Several minutes weekly

Most important, unlike other RTLS technology, RadarFind required no new wiring or wall penetration and did not tax existing networks. In fact, during the installation, the hospital's daily processes were not disrupted at all.

Bradshaw reports: "RadarFind's knowledge and consideration of hospital operations contributed to the painless adoption by hospital staff and considerably less training time for staff to become familiar with and start using the system."

Reaping the Benefits

Bradshaw concludes that RTLS from RadarFind works even better than promised. "We keep finding more applications. We're now developing more benchmark data on other equipment needs and we've clearly demonstrated it has the potential to help us decrease costs through utilization tracking, especially in the case of IV pumps." Ultimately, Bradshaw feels that patients benefit from Wayne Memorial's willingness to employ RTLS and other emerging technologies.

Wayne Memorial has found the system to benefit several hospital populations:

- ▶ **Biomedical Engineering** staff now have an effective means of finding and tracking equipment. Mark Renfro, Clinical Engineering Manager, affirms, "This is especially important to our hospital in locating equipment for our Preventive Maintenance program."
- ▶ **Nurses** can now spend more time with patients. Shirley Harkey, Vice President, Patient Services Administration & CNO, points out, "With the RadarFind system, less of the nurses' extremely valuable and limited time is wasted looking for equipment."
- ▶ **Central Sterile** staff benefit from the equipment status feature, according to Georgie Teachey, Central Sterile Supervisor. "With just a few taps of a finger on a touchscreen, we can know whether the devices are Ready, In Use, or Needs Cleaning."
- ▶ **Transport** staff can quickly and easily locate wheelchairs. "This virtually eliminates gridlock while ensuring effective workflow and resource management," attests Brenda Warren, Director, Environmental Services.

About RadarFind Corporation

RadarFind Corporation is a health care technology company with extensive management experience in hospital administration and clinical engineering applications. RadarFind's team-oriented approach emphasizes understanding the unique needs of each client location in order to develop a Real Time Location System that is easy to implement and easier to use.

For more information, please call **1-877-RADARFIND** (877-723-2734) or visit www.radarfind.com.



Tom Bradshaw,
VP of Operations

Initially, Wayne Memorial implemented the system for its IV pumps but quickly expanded it to wheelchairs, beds, pulse oximeters and its workstations on wheels. Bradshaw says that they will certainly extend the system further, noting that equipment searches that used to take hours, now take minutes. This has had a very unexpected, but positive consequence of staff being more willing to "loan equipment" to other locations because they know it will come back.

RadarFind was truly able to combine the best of both the clinical and technical worlds. "The RadarFind team knew the IT implications inside and out and as healthcare professionals, they were able to bring clinical process and hospital operations background to the equation," says Bradshaw.



RadarFind Corporation
2100 Gateway Centre Blvd.
Suite 150
Morrisville, NC 27560-6230
877-RadarFind (877-723-2734)
(919) 287-2483 (fax)
www.radarfind.com