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MILESTONE
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Some News That's Fit to Print

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Dear Caryn,

Welcome to the October issue of The Milestone on Times. This month's edition focuses on pharmacy & lab work and features an article on alternative locations for hospital labs, written by Roger E. Maynard. Roger is a Vice President and Director of Laboratory Planning for Leo A Daly. Merrill Stanley authored this month's "There's an App for That" article. And, being that we are in the month of October, we've checked in with our friends at the St. Luke's Community Emergency Centers for some Halloween safety tips. Of course, you may unsubscribe at any time if you do not wish to receive future mailings. Just use the "Unsubscribe" button at the bottom of the page.



St. Luke's Hospitals Complete Two USP 797-Compliant Pharmacy Renovations

St. Luke's Episcopal Hospital and St. Luke's The Woodlands Hospital recently completed renovations to bring their pharmacies into compliance with USP 797 guidelines.

At St. Luke's Episcopal Hospital, it was determined by the Pharmacy Department that a new negative pressure chemotherapy prep room was needed in order to comply with USP 797. Because the existing clean room and pharmacy work rooms were required to remain operational during the entirety



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of the construction, much time was spent planning the construction and occupation sequence. Careful coordination of the equipment relocation ensured that the pharmacy suffered no downtime; the staff always had ability to prepare IVs and chemotherapy products.



Photography by Geoff Lyon

At St. Luke's The Woodlands, the renovation included the expansion of the existing pharmacy and lab by nearly 1,300 SF. To meet the requirements of USP 797, a new chemotherapy prep room, IV prep room and an anteroom were added. In order to maintain pharmacy operations, the project was design to be completed in three separate phases, which would require a minimum of three separate TDSHS inspections. To renovate the existing clean room, a temporary clean room was setup outside of the project area so that operations could continue. And with a little creativity, the project team was able to sequence the construction (rather than complete the work in phases) so that only an 80% and 100% inspection were required.

Milestone Project Management was engaged by St. Luke's Episcopal Health System to manage the design and construction process for both projects.

PhiloWilke Partnership (Architecture) and Telios (MEP) comprised the design team for the St. Luke's Episcopal Hospital renovation. WS Bellows' Medical Center Renovation Team served as the Construction Manager.

For the Woodlands' hospital, HGA provided both architecture and MEP engineering services. Forney Construction was the Construction Manager.

Alternative Locations for the Hospital Lab By Roger E. Maynard

Over the past two decades, increased need for new hospital diagnostic services has lead to the search for existing space that can be reassigned. Whether for the building of new or remodeling of existing facilities, the focus is often on "non-patient contact" spaces that can be located outside of the main hospital building without disruption to patient healthcare services.



Intermountain Healthcare Central

Simultaneously, many hospital clinical labs have experienced rapid changes in the technology available to serve an ever increasing list of

"test codes." As new instruments enter the market, more of them offer the potential of being connected to fully-automated analytical systems. This automation helps lab managers, who are frequently confronted with a shortage of available trained staff, meet their throughput.

One design solution that LEO A DALY has incorporated into several hospital laboratories has been to position the clinical laboratory in a building that is nearby, but physically detached from the hospital. For four separate clients, the detached-labs solution, with express pneumatic tube systems (PTS) and sky-bridge connections where possible, has enabled full hospital and core lab services, including STAT services, to be provided with the lab outside of the hospital's main structure.

There are several advantages to this alternative solution, including greater flexibility for layout, better expansion capability, greater access to daylight, closer service access, and usually a lower initial cost. The resulting decision to take this approach has been successful for three facilities that are in full service, including one with more than six years of operation. The fourth facility of this type is now under construction at a top five ranked hospital, but is certain to be successful, since it will be fully connected (both PTS and sky-bridge) to main campus buildings.

At the Intermountain Healthcare Central Laboratory, the new building was planned as a free-standing hospital lab located on the same site as their new 472-bed Murray, Utah facility. It also serves as a consolidated lab for esoteric and other specialty lab tests for more than 20 Intermountain Hospitals and clinics in the Utah / Idaho service area. Lower volume esoteric, or reference lab, services are now provided only at this new lab; freeing up space in the new building and at each of the other existing hospitals, for other patient-contact uses. An Automated Chemistry Analytical System was installed before start-up. The total construction cost for the lab was slightly more than half the square foot cost of the new hospital. Through the independent building approach, this lab facility may be expanded by up to 75 percent, without stopping existing services and without requiring major renovations to any of the primary lab groups within the facility.

The University of Colorado Hospital Clinical Laboratory also is located in a separate administrative building, providing expansion alternatives within the new "non-patient" structure, which is served by a four-tube express PTS. AP and frozen section specimens are processed in a separate dedicated lab adjacent to the operating rooms for rapid response to the surgical team's needs. This administration building, including the lab, was constructed at a much lower average cost of construction as compared to their hospital building, while maintaining the lab's ability to provide high-speed turnaround times for both in-patient and out-patient lab services.

Detached lab locations can separate hospital patient/visitor activities from lab spaces, without separating them from the prompt access to high quality and responsive lab services, often with greater expansion capability and at a lower total construction cost.

There's an App for That!

By Merrill Stanley

New to the iPhone, I was excited to see how much technology had evolved while I was using another brand of smart-phone. If you can imagine it, there is probably an app for that.

While there are many extremely useful apps that increase work productivity, I enjoy following my favorite, and not so favorite, teams on the free [ESPN](#) app. Up to the minute scores and stats without laborious navigation.



Catching the latest news can be a challenge, but with a plethora of news apps, it's easier to stay abreast of the current breaking news. My favorites are [USA Today](#) and a local news station ([KHOU](#) in Houston) that features live weather radar and up to the minute local news.

Stuck without access to the Internet? Use [FREE WI-FI FINDER](#) to locate free Wi-Fi access points nearest you or your future destination worldwide. Paris, Texas to Paris, France, - this is one handy app.

While the [Harvard Business Review](#) is not technically an app, this weekly pod cast offers up cutting edge ideas developing in the business world. A great listen during the daily commute!

Community Emergency Centers Promote Halloween Safety

St. Luke's Community Emergency Centers are promoting Halloween safety to their patients and staff. Posters in the facilities encourage parents to review safe trick-or-treating practices with their children.

- Wear light-colored or reflective clothing at night.
- Wear costumes made of fire-retardant materials.
- Wear costumes that do not drag on the ground.
- Wear masks that do not obstruct vision.
- Carry a flashlight at night.
- Stay in groups and do not wander off alone.
- Do not accept rides from strangers.
- Always use the sidewalks and stay on well-lit streets.
- An adult must supervise the lighting of a candle in a pumpkin.
- Do not dart into the street or between parked cars.
- Always have adults check candy before eating it.



We hope you've enjoyed this issue of our newsletter. Be sure to check out our [website](#) - we've been updating our projects and services pages - and check out our newest [blog](#) postings.

If you would like additional information about Milestone Project Management, or to give us feedback on this newsletter, please email us at info@mpmlc.com.

Sincerely,

MILESTONE PROJECT MANAGEMENT

Scott LaTulipe Bill Eide Merrill Stanley
 Caryn Mims Dana MacMoy Eric Serna
 Matthew Molder

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