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2015 Most Wired

Who made this
year's list?
How is health care
overall 'optimizing'
all the data?

At Lakeland (Fla.) Regional Medical Center, CIO Elizabeth Kerns says, "Nearly every business function and clinical process is built to leverage our technology foundation."



American Hospital
Association

2015 Most Wired

BY MATTHEW WEINSTOCK | DATA BY SUZANNA HOPPSZALLERN

Optimize. It's not a super sexy word. It sounds more like a command Tony Stark would bark at his computerized helper Jarvis to get the Mark 45 Iron Man suit ready for battle. With apologies to the genius/billionaire/playboy/philanthropist, optimization is actually the mantra for today's real-life health information virtuoso.

After more than a decade of building the foundational elements of a digitized health care environment, and billions of dollars in federal and private sector spending, hospitals and health systems are tapping into the power of the bits and bytes they've been collecting. This coincides not only with the requirement to meet federal standards for meaningful use of health information technology, but also the push toward value-based payments, population health management and cost-efficiency.

As evidenced by data collected over the 17-year history of Health Care's Most Wired Survey, hospitals and health systems have continually ratcheted up their use of cornerstone IT applications. For instance, 95 percent of the 2015 Most Wired hospitals have standing, evidence-based electronic order sets built into their CPOE systems. That's up from 79 percent in 2010. Since 2008, the percentage of Most Wired organizations that have a compliance-driven alert system for Centers for Medicare

& Medicaid Services key indicators leapt from 50 percent to 79 percent in 2015.

While work still needs to be done to bring implementation of these types of applications to 100 percent — and sustain their use over time — leaders at Most Wired hospitals are not merely resting on their laurels waiting to install the next gadget; they are using data to drive clinical improvement and shape strategy.

"Through implementation of our Epic system, we've been able to elevate the use of real-time information at the bedside," says Paula Smith, senior vice president and chief information officer, Oakwood Healthcare, Dearborn, Mich. "We consolidated multiple, disparate systems into a single database that has provided more streamlined documentation of care delivery at every transition-of-care event."

Records from emergency department visits, for instance, are instantly available to caregivers at the receiving inpatient unit. This, Smith says, accelerates quality care because the clinicians are prepared in advance of the patient's arrival.

Organizations on the 2015 Most Wired list are extending the use of IT systems outside the hospital's four walls, including connecting directly with patients. In fact, improvement in patient engagement — in its many forms — stands out in this

Results from the 17th annual Most Wired Survey show that hospitals and health systems are making progress in utilizing information technology to connect with patients.



'Technology is Our Differentiator'

Clinicians at Lakeland Regional Medical Center have a powerful tool to fight sepsis, but it's not some new antibiotic. It's data.

About two years ago, the medical center began utilizing a sepsis crawler that combs through data in the electronic health record system to identify at-risk patients. Sepsis strikes more than 1 million Americans yearly, and between 28 and 50 percent of them die.

"It identifies patients who are becoming septic even before our clinicians can," says Elaine Thompson, president and CEO of the Lakeland Regional Health Systems.

Sepsis isn't the only area where predictive analytics is coming into play. The EHR also runs algorithms to spot patients at risk of deep vein thrombosis and catheter-related infections. And, a readmissions calculator helps to identify congestive heart failure patients who may be at risk of returning to the hospital within 30 days after discharge. That list is sent to care transition coaches who work with patients on their treatment plans.

"Instead of doing this for everyone with congestive heart failure, we can identify people most at risk and allocate the right resources at the right time," Thompson says.

This philosophy plays out across the organization. An enterprise data warehouse pulls information from the inpatient and ambulatory systems, as well as other applications, to provide near real-time information — there's about a two-hour delay — to a team of data scientists who apply predictive analytics. They help to identify patients most in need of attention — those at risk of a readmission, those on a complex medication regimen or someone who doesn't have a strong support system. The organization then can target patients for interventions, says Vice President and Chief Information Officer Elizabeth Kerns.

Given that the medical center's leadership team boasts four engineers — to go along with three full-time doctors and a chief nursing officer — this kind of analytical approach to care delivery shouldn't come as a surprise. They see digital tools working in tandem with clinicians to improve not just care delivery, but also the health of the community, says Thompson. In fact, the organization's strategic plan calls for delivering nationally recognized health care, strengthening the health of the community and advancing health.

"Our mission, our vision, our culture all depend on technology," says Kerns. "Technology is our differentiator. Nearly every business function and clinical process is built to leverage our technology foundation." ●



Elizabeth Kerns

Technology is our differentiator. Nearly every business function and clinical process is built to leverage our technology foundation.

year's survey. More than two-thirds of the Most Wired extend the care environment to the patient and family via the Internet, providing education about his or her condition and allowing for e-visits with the care team, among other things. This dovetails nicely with efforts to improve population health.

At MetroHealth System, an automated screening and alert system led to a 15-fold increase in screening and 23 percent increase in diagnosis for depression between 2011 and 2014. There was a 25 percent increase in adolescent immunizations during the same period, largely a result of automated messaging to parents. And, importantly, between 2011 and 2012, a 15 percent increase in patients scheduling and completing referrals 30 days after discharge, reports David Kaelber, M.D., chief medical informatics officer for the Cleveland-based health system. All of these efforts are ongoing.

■ The engaged patient

Part of the emphasis on patient engagement can certainly be traced to meaningful use regulations. In Stage 2 and the proposed rule for Stage 3, the Centers for Medicare & Medicaid Services places an emphasis on ensuring that patients can access their health records and become more connected with their providers. Stage 2 requires hospitals to show that 5 percent of all discharged patients have viewed, downloaded or transmitted their health information to a third party.

Of course, making records available is one thing, getting patients to participate online is something else entirely. At Citizens Memorial Hospital, Bolivar, Mo., staff called patients during the 90-day attestation period to get them to sign up for the patient portal and use secure messaging, says Chief Information Officer Denni McCole.

"We had to do some crazy things," she explains. "If you signed up for the portal and sent a secure message, you were entered into a contest to win an iPad or a TV. We had one staff person in particular who would call up patients and say, 'I saw you were at the doctor's. I wanted to see how you were doing. Why don't you get on the portal and let me walk you through it.' And she would get them signed up."

Most of those patients remain active users of the portal, McCole says.

To a certain degree, engaging patients online is a question of value, says Michael McCoy, M.D., chief health information officer, Office of the National Coordinator for Health IT. Is there enough information and meaningful interaction with providers to entice a patient to regularly visit a portal and become engaged?

"From my perspective, hospitals are missing the mark," he says. "They complain about the number of [meaningful use] measures, rather than finding ways for doctors to be more proactive and responsive."

While she contends that the regulations are too burdensome, Chantal Worzala, director of policy at the American Hospital Association, agrees that portal usage ultimately will increase as the sites become more user-friendly and useful.

She says it's encouraging to see in the Most Wired data that hospitals are going beyond meaningful use requirements to find ways of promoting patient engagement. For instance, 63 percent of Most Wired hospitals offer self-management for chronic conditions through the patient portal. And, 67 percent can incorporate patient-generated data through the portal, an important point since proposed Stage 3 regulations would require that hospital EHRs ingest patient-generated data from nonclinical settings for more than 15 percent of unique patients.

Worzala says there are still significant hurdles to marrying patient-generated data with an EHR, not the least of which is standards. McCoy adds that physicians are rightfully concerned about "being overloaded with noise." It will be important going forward to figure out what information is truly useful to clinicians.

To that end, Worzala says the federal government needs to slow down on the regulator front.

"This is an opportune time to build on the tremendous investment in EHRs over the past few years," she says. "We have so much interesting technology, let's allow providers to figure out what the best uses are for providing care."

■ Most wireless

As with nearly everything in society, mobile technology is another part of the puzzle. The key is finding ways to connect with patients on their terms.

"I was surprised to see the high level of usage on mobile devices," says Russ Branzell, president and CEO of the College of Healthcare Information Management Executives, *H&HN's* partner in the Most Wired project. "We are seeing that mobility is an expectation in all parts of a consumer's life. They'll demand that from a patient engagement standpoint."

Among Most Wired hospitals, 89 percent allow patients to access the portal via a mobile app, up from just 58 percent last year. Even among all respondents, there was a huge jump — 47 to 79 percent. Additionally, 63 percent of Most Wired organizations enable secure messaging, up from 40 percent in 2014. And 50 percent provide a mobile app for a personal health record, compared with 32 percent a year ago.

Looking more broadly, the field is challenged by the interoperability dilemma and the ability to exchange data across the continuum. As long as that challenge remains, it will be difficult for hospitals to fully move toward accountable care and value-based delivery.

"When you are at [financial] risk as a hospital, you want other providers who are caring for your patients to have the data," says McCoy. "You want to ensure that patients are getting the right care at the right time."

Part of the problem is that the payment system hasn't caught up with the practice of more integrated care, says Branzell, who is quick to add that once incentives are aligned, hospitals need to be prepared to change lanes.

"Hospital leaders have to be ready because there's a growing appetite to move away from fee for service," he says. ●



An Agent of Change

Edward Babakanian views his role more as chief technology evangelist than chief information officer.

“My job is to demystify information technology and to be a catalyst for change,” says the CIO of the University of California San Diego Health System.

For the past 20 years, Babakanian has worked to ensure that IT is not just a part of the health system’s broad strategic plans but, in some cases, out in front; or at least anticipating change.

“IT needs to be ready to deploy when the hospital is ready to go. If the plumbing isn’t ready, you can’t deploy your plan,” he says.

Today, a large part of the change that Babakanian is championing focuses on patient engagement and connectivity. In 2012, UCSD was one of the first health systems in the country to start piloting technology with Qualcomm Life, a subsidiary of Qualcomm Technologies, to enable patients to send real-time health data to their care teams. Patients were given weight scales, blood glucose meters and blood pressure cuffs that could upload data wirelessly directly to their health records.

“We are actively involved with many other companies, including Apple, that will be coming out with devices that can pick up your vital signs and transmit them to the medical record,” Babakanian says. “This will get us to the next step so that any clinical information that can be captured while people are just walking around is available.”

UCSD is also at the leading edge of using technology that’s relevant in the here and now. Ambulatory clinics are stocked with point-of-care devices such as glucometers and urine analyzers that wirelessly transmit data back to the electronic health record. The real-time capture of data enables clinicians to make more informed decisions.

There’s also a robust patient portal with close to 80,000 users. Beyond the typical transactional functions, the portal gives patients access to their health records, which is especially handy for those conducting virtual visits with their physicians.

Mostly done for low-risk patients, virtual visits are handled via videoconferencing where both the clinician and patient can view the requisite medical data. And while it’s no substitute for an in-person visit, Babakanian says that they are seeing an uptick in usage.

“We are also enabling patients to use the secure portal to document their own care,” Babakanian says, noting that a patient could record that they get dizzy after a sugary intake, which could be a precursor to being diabetic, or at least something that a physician should know about. “This gives us the ability to do a better job of diagnosing and caring for that patient.” ●

Edward Babakanian

IT needs to be ready to deploy when the hospital is ready to go. If the plumbing isn’t ready, you can’t deploy your plan.

2015 Most Wired

Abington (Pa.) Health www.amh.org	2	790	Cancer Treatment Centers of America Boca Raton, Fla. www.cancercenters.com	5	370
Abraham Lincoln Memorial Hospital Lincoln, Ill. www.almh.org	1	25	Carilion Clinic Roanoke, Va. https://carilionclinic.org	7	768
Adventist Health Roseville, Calif. www.adventisthealth.org	19	2,700	Carle Urbana, Ill. www.carle.org	1	345
Adventist Health System Altamonte Springs, Fla. www.adventisthealthsystem.com	25	4,608	Carle Hoopeston (Ill.) Regional Health Center www.carle.org/Hoopeston.aspx	1	24
Advocate Health Care Downers Grove, Ill. www.advocatehealth.com	12	3,743	Carolinas HealthCare System Charlotte, N.C. www.carolinashealthcare.org	16	2,853
Akron (Ohio) Children's www.akronchildrens.org	2	394	Catholic Health Services of Long Island Rockville Centre, N.Y. www.chsli.org	6	1,862
Albany (N.Y.) Medical Center www.amc.edu	2	734	Cedars-Sinai Health System Los Angeles www.cedars-sinai.edu	1	952
Aleda E. Lutz VA Medical Center Saginaw, Mich. www.saginaw.va.gov	1	108	Centra Health Lynchburg, Va. www.centrahealth.com	4	685
Alice Hyde Medical Center Malone, N.Y. www.alicehyde.com	1	76	Central Maine Medical Center Lewiston www.cmmc.org	3	200
Altru Health System Grand Forks, N.D. www.altru.org	1	270	CentraState Healthcare System Freehold, N.J. www.centrastate.com	1	276
AnMed Health Anderson, S.C. www.anmedhealth.org	1	412	Centura Health Englewood, Colo. www.centura.org	15	2,000
Ann & Robert H. Lurie Children's Hospital of Chicago www.luriechildrens.org	1	280	Cheyenne (Wyo.) Regional Medical Center www.cheyenneregional.org	1	222
Anne Arundel Medical Center Annapolis, Md. www.aahs.org	1	385	Children's Health Dallas www.childrens.com	2	426
Atlantic Health System Morristown, N.J. www.atlantichealth.org	4	1,600	Children's Hospital Colorado Aurora www.childrenscolorado.org	1	526
Aurora Health Care Milwaukee http://aurorahealthcare.org	15	2,223	Children's Hospital of Philadelphia www.chop.edu	1	500
Avera Health Sioux Falls, S.D. www.avera.org	32	1,782	Children's Mercy Hospital Kansas City, Mo. www.childrensmercy.org	2	354
Baptist Health South Florida Coral Gables http://baptisthealth.net	6	1,530	CHOC Children's Hospital Orange, Calif. www.choc.org	1	279
Baptist Health System Birmingham, Ala. http://baptisthealthalabama.org	4	846	Christ Hospital Cincinnati www.thechristhospital.com	1	555
Battle Creek (Mich.) VA Medical Center www.battlecreek.va.gov	1	203	CHRISTUS Health Irving, Texas www.christushealth.org	22	3,727
Baystate Health Springfield, Mass. www.baystatehealth.org	4	898	Cibola General Hospital Grants, N.M. http://cibolahospital.com	1	25
Beaufort (S.C.) Memorial Hospital www.bmhsc.org	1	197	Cincinnati Children's Hospital Medical Center www.cincinnatichildrens.org	1	628
Beaumont Health System Royal Oak, Mich. www.beaumont.edu	3	1,726	Citizens Memorial Hospital Bolivar, Mo. www.citizensmemorial.com	1	86
Berkshire Health Systems Inc. Pittsfield, Mass. www.berkshirehealthsystems.org	2	327	Community Health Network Indianapolis www.ecommunity.com	4	797
Beth Israel Deaconess Medical Center Boston www.bidmc.org	1	600	Community Memorial Hospital Burke, S.D. www.sanfordhealth.org/Locations/Community/Burke,SD	1	16
Bon Secours Baltimore Health System http://bonsecoursbaltimore.com	1	115	Concord (N.H.) Hospital Inc. www.concordhospital.org	1	210
Bon Secours Charity Health System Suffern, N.Y. http://charity.bonsecours.com	3	582	Cook Children's Health Care System Fort Worth, Texas www.cookchildrens.org	1	327
Bon Secours Health System Marriottsville, Md. www.bshsi.org	14	2,687	Cooper University Health Care Camden, N.J. www.cooperhealth.org	1	550
Bon Secours St. Francis Health System Greenville, S.C. www.stfrancishealth.org	2	338	Covenant Health Knoxville, Tenn. www.covenanthealth.com	9	1,873
Bon Secours Virginia Health System Richmond www.bshsi.org	7	1,399	CoxHealth Springfield, Mo. www.coxhealth.com	5	954
Bothwell Regional Health Center Sedalia, Mo. www.brhc.org	1	137	Crawford Memorial Hospital Robinson, Ill. www.crawfordmh.org	1	25
Bristol (Conn.) Hospital www.bristolhospital.org	1	110	Crozer-Keystone Health System Springfield, Pa. www.crozerkeystone.org	5	1,000
Broadlawn Medical Center Des Moines, Iowa www.broadlawn.org	1	99	Danbury (Conn.) Hospital www.wchn.org	1	315
Bronson Battle Creek (Mich.) www.bronsonhealth.com	1	181	Deaconess Health System Evansville, Ind. www.deaconess.com	4	493
Bronson Lakeview Hospital Paw Paw, Mich. www.bronsonhealth.com	1	35	Denver Health http://denverhealth.org	1	498
Bronson Methodist Hospital Kalamazoo, Mich. www.bronsonhealth.com	1	434	Detroit Medical Center www.dmc.org	8	2,000
Brookdale University Hospital and Medical Center Brooklyn, N.Y. www.brookdalehospital.org	1	525	Dignity Health San Francisco www.dignityhealth.org	38	3,400
Brooke Army Medical Center Fort Sam Houston, Texas www.bamcamedd.army.mil	1	425	Doylestown (Pa.) Hospital www.dh.org	1	238
Brooklyn (N.Y.) Hospital Center www.tbh.org	1	466	Duncan (Okla.) Regional Hospital www.duncanregional.com	1	147
Cadence Health Winfield, Ill. www.cadencehealth.org	2	472	Eastern Maine Healthcare Systems Brewer www.emhs.org	8	804
Calvert Memorial Hospital Prince Frederick, Md. www.calverthospital.org	1	103	Eastern Maine Medical Center Bangor www.emmc.org	1	367
			Edward-Elmhurst Healthcare Naperville, Ill. www.healthdriven.com/		



Building a Foundation to Grow

More than a decade ago, leaders at Citizens Memorial Hospital took the bold step to invest mightily in information technology. Recall that those were the nascent days of health IT. The Office of the National Coordinator for Health IT didn't come into existence until 2004.

Still, across the industry, people were beginning to visualize how automated and digitized systems could streamline workflow and improve patient care. The board and executive team at the 89-bed rural hospital in Bolivar, Mo., were no different. In 2002–2003, they invested \$6 million — roughly 12 percent of the organization's \$50 million operating budget — on a health IT system.

"It was as much as we had spent on any building at that time," says Denni McCollm, CMH's chief information officer. "We had long discussions about the false sense of security that people had that their doctors knew everything about them. At that time, a patient's paper medical records could have been spread across 33 different locations so, of course, doctors had to redo tests."

The significant capital investment coincided with a strategic plan to focus on the CMH brand. The hospital had been acquiring and affiliating with clinics and other providers. It was time to start acting like one organization, McCollm says.

Flash forward to 2015: CMH is doing more than acting like one organization, it is using health IT as the underpinning to grow and drive care coordination across its market.

For instance, when CMH added a sixth long-term care facility to its portfolio in 2011, there was no hesitation in expanding the necessary infrastructure to ensure the flow of patient records.

"We administer a lot of medications to those 500 residents," McCollm says of the six long-term care facilities. "When we discharge a patient, we don't have to send the paper record. We just send the patient, because the record is all together" and available electronically.

CMH is also showing positive results in utilizing IT to improve population health. Through two years of a medical home program, IT is being used in 12 rural health clinics to help case managers improve care. They've seen significant improvement in care for people with diabetes, including a 7 percent climb in patients whose A1c is less than 8 percent; an 11 percent increase in females getting a mammogram; and a 10 percent increase in patients getting a colorectal cancer screening.

"IT is part of the foundation to grow and meet the needs of the community," McCollm says. ●



Denni McCollm

The hospital had been acquiring and affiliating with clinics and other providers. It was time to start acting like one organization.

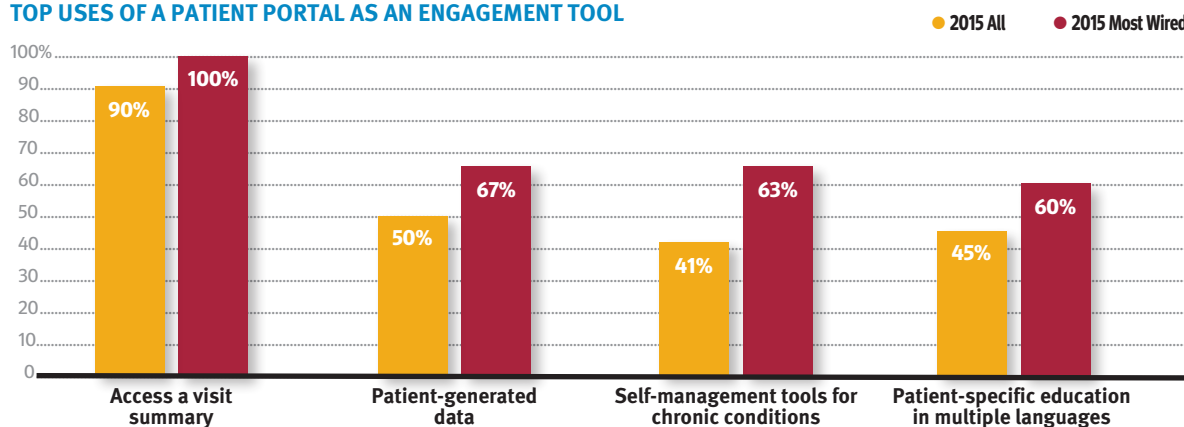
● Number of hospitals ● Number of beds

Portals: Involving patients in their care

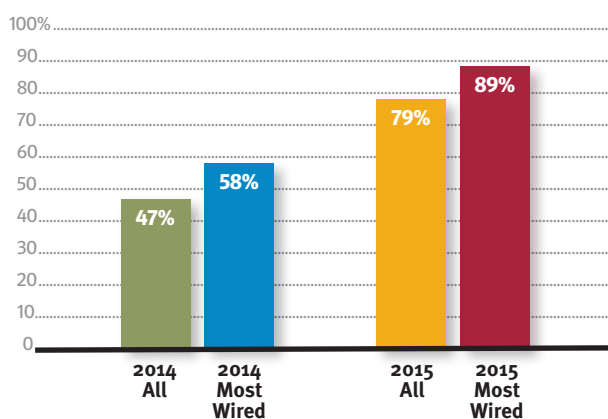
To drive up patient engagement and meet meaningful use regulations, Most Wired hospitals are building more robust patient portals. “Engaging patients through a portal personalizes their care and makes them more educated consumers,” says Craig Kinyon, CEO, Reid Hospital & Health Care Services, Richmond, Ind. Two-thirds of Most Wired hospitals are using the patient portal to actively involve patients with their own care by capturing ongoing health information directly from patients, family members or other caregivers and offering self-management tools for chronic conditions. “Through the patient portal, we have enabled our patients to be able to view critical clinical information from the comfort of their home or smartphones,” says Bill Moran, senior vice president and CIO at The Brooklyn (N.Y.) Hospital Center. ●



TOP USES OF A PATIENT PORTAL AS AN ENGAGEMENT TOOL



PERCENTAGE OF HOSPITALS OFFERING ACCESS TO THE PATIENT PORTAL THROUGH A MOBILE APPLICATION



EXTENDING THE CARE ENVIRONMENT TO THE PATIENT AND FAMILY THROUGH THE INTERNET BY:

	2015 All	2015 Most Wired
Introducing the patient and family to the care team and services that will be delivered	54%	67%
Reviewing education about their condition and care instructions	50%	66%
Providing secure email with their care team	51%	69%
Continuing the care pathway initiated prior to or during the clinical encounter	23%	35%

Source: Health Care's Most Wired Survey, 2015

2015 Most Wired

Ministry St. Elizabeth Hospital Appleton, Wis. http://ministryhealth.org	1	179	Piedmont Henry Hospital Stockbridge, Ga. www.piedmont.org/locations/piedmont-henry/phh-home	1	215
Mission Health System Asheville, N.C. www.mission-health.org	6	1,100	Piedmont Mountainside Hospital Jasper, Ga. www.piedmont.org/locations/piedmont-mountainside/pmh-home	1	52
Mosaic Life Care at St. Joseph (Mo.) www.mymosaiclifecare.org	2	413	Piedmont Newnan (Ga.) Hospital www.piedmont.org/locations/piedmont-newnan/pnh-home	1	136
Mount Sinai Health System New York City www.mountsinaihealth.org	7	3,535	Presbyterian Healthcare Services Albuquerque, N.M. www.phs.org	8	850
Mountain States Health Alliance Johnson City, Tenn. www.msha.com	13	1,530	Providence Health & Services Renton, Wash. www2.providence.org	34	7,923
MultiCare Health System Tacoma, Wash. www.multicare.org	5	1,130	Pullman (Wash.) Regional Hospital www.pullmanregional.org	1	25
Munson Healthcare Cadillac (Mich.) Hospital www.mercyhealthcadillac.com/welcome-cadillac	1	68	Rady Children's Hospital – San Diego www.rchsd.org	1	384
Munson Healthcare Grayling (Mich.) Hospital www.munsonhealthcare.org/graylinghospital	1	71	Reid Hospital & Health Care Services Richmond, Ind. www.reidhospital.org	1	217
Munson Medical Center Traverse City, Mich. www.munsonhealthcare.org	1	391	Richard L. Roudebush VA Medical Center Indianapolis www.indianapolis.va.gov	1	209
MUSC Medical Center of Medical University of South Carolina Charleston www.musc.edu	4	710	Riverside Health System Newport News, Va. www.riversideonline.com	6	520
Nanticoke Memorial Hospital Seaford, Del. www.nanticoke.org	1	99	Robert Wood Johnson University Hospital New Brunswick, N.J. www.rwjh.edu	1	610
NCH Healthcare System Naples, Fla. www.nchmd.org	2	715	Robert Wood Johnson University Hospital Hamilton (N.J.) http://rwjhamilton.org	1	190
Nemaha County Hospital Auburn, Neb. www.nchnet.org	1	16	Rockford (Ill.) Health System www.rockfordhealthsystem.org	1	298
Nemours Children's Health System Jacksonville, Fla. www.nemours.org	2	250	Rush Memorial Hospital Rushville, Ind. www.rushmemorial.com	1	25
Newark (N.J.) Beth Israel Medical Center www.barnabashealth.org	1	665	Rush Oak Park (Ill.) Hospital http://rophi.org	1	117
Nicklaus Children's Hospital Miami www.mch.com	1	289	Rush University Medical Center Chicago www.rush.edu	1	664
North Cypress (Texas) Medical Center www.ncmc-hospital.com	1	139	Saint Barnabas Medical Center Livingston, N.J. www.barnabashealth.org/hospitals/saint_barnabas	1	597
North Kansas City (Mo.) Hospital www.nkch.org	1	451	Saint Francis Care Hartford, Conn. www.stfranciscare.org	1	595
North Mississippi Health Services Tupelo www.nmhs.net	6	882	Saint Joseph Regional Medical Center Mishawaka, Ind. www.simed.com	2	350
Northeast Georgia Health System Gainesville www.nghs.com	1	818	Saint Luke's Health System Kansas City, Mo. www.saintlukeshealthsystem.org	10	1,030
NorthShore University HealthSystem Evanston, Ill. www.northshore.org	4	832	Saint Peter's University Hospital New Brunswick, N.J. www.saintpetersuh.com	1	332
Northwestern Memorial HealthCare Chicago http://nmhc.nm.org	2	1,095	Saint Vincent Hospital Erie, Pa. www.ahn.org/locations/saint-vincent-hospital	1	371
Norwalk (Conn.) Hospital www.norwalkhospital.org	1	250	Samaritan Healthcare Moses Lake, Wash. www.samaritanhealthcare.com	1	48
Oakwood Healthcare Dearborn, Mich. www.oakwood.org	4	1,243	Sanford Health Sioux Falls, S.D. www.sanfordhealth.org	23	1,953
Ochsner Health System New Orleans www.ochsner.org	9	1,600	Sarah Bush Lincoln Health Center Mattoon, Ill. www.sblhs.org	1	118
Odessa (Wash.) Memorial Healthcare Center http://omhc.org	1	25	SCL Health System Denver www.sclhealth.org	8	1,745
Ohio State University Wexner Medical Center Columbus www.medicalcenter.osu.edu	6	1,308	Sentara Healthcare Norfolk, Va. www.sentara.com	8	1,931
OhioHealth Doctors Hospital Columbus www.ohiohealth.com/doctors	1	265	Sharp Healthcare San Diego www.sharp.com	7	2,087
OhioHealth Dublin Methodist Hospital www.ohiohealth.com/aboutdublinmethodist	1	103	Somerset Medical Center Somerville, N.J. www.rwjh.edu	1	226
OhioHealth MedCentral – Mansfield Hospital www.medcentral.org/Main/MansfieldHospital.aspx	1	256	South Shore Hospital South Weymouth, Mass. www.southshorehospital.org	1	378
Oklahoma Heart Hospital Oklahoma City www.okheart.com	1	99	Spartanburg (S.C.) Regional Healthcare System www.spartanburgregional.com	2	626
Oklahoma Heart Hospital South Oklahoma City www.okheart.com	1	46	SSM Health Care St. Louis www.ssmhealth.com	12	3,486
Orlando (Fla.) Health www.orlandohealth.com	8	1,865	St. Clair Hospital Pittsburgh www.stclair.org	1	328
OSF Healthcare System Peoria, Ill. www.osfhealthcare.org	8	1,278	St. Dominic Hospital Jackson, Miss. www.stdom.com	1	438
Othello (Wash.) Community Hospital www.othellocommunityhospital.org	1	25	St. Elizabeth Healthcare Edgewood, Ky. www.stelizabeth.com	4	1,036
Our Lady of Bellefonte Hospital Ashland, Ky. www.olbh.com	1	184	St. Elizabeth Hospital Enumclaw, Wash. www.fhshealth.org/St-Elizabeth-Hospital/	1	25
Overlake Hospital Medical Center Bellevue, Wash. www.overlakehospital.org	1	281	St. Joseph Mercy Oakland Pontiac, Mich. http://stjoeshealth.org/	1	443
Palmetto Health Columbia, S.C. www.palmettohealth.org	3	1,024	St. Joseph's Hospital Health Center Syracuse, N.Y. www.sjhsyr.org	1	431
Parkland Health & Hospital System Dallas www.parklandhospital.com	1	861	St. Luke's Cornwall Hospital Newburgh, N.Y. www.stlukescornwallhospital.org	2	350
Parkview Health Fort Wayne, Ind. www.parkview.com	8	807	St. Luke's Rehabilitation Institute Spokane, Wash. www.st-lukes.org	1	101
Paul Oliver Memorial Hospital Frankfort, Mich. www.munsonhealthcare.org	1	8	St. Martin Hospital Breaux Bridge, La. www.stmartinhospital.org	1	25
Pelham Medical Center Greer, S.C. www.pelhammedicalcenter.com	1	39	St. Vincent's Birmingham (Ala.) www.stvhs.com/birmingham	1	409
Peninsula Regional Medical Center Salisbury, Md. www.peninsula.org	1	288	St. Vincent's Blount Oneonta, Ala. www.stvhs.com/blount	1	40
Perham (Minn.) Health www.perhamhealth.org	1	25	St. Vincent's East Birmingham, Ala. www.stvhs.com/east	1	362
Piedmont Atlanta Hospital www.piedmont.org/locations/piedmont-atlanta/pah-home	1	488	St. Vincent's St. Clair Pell City, Ala. www.stvhs.com/stclair	1	40
Piedmont Fayette (Ga.) Hospital www.piedmontfayette.org	1	172	Stanford (Calif.) Health Care https://stanfordhealthcare.org	1	452
			Stony Brook (N.Y.) University Medical Center www.stonybrookmedicine.edu	1	601
			Summa Health System Akron, Ohio www.summahealth.org	2	545

Strengthening physician-hospital alignment

As health systems transition to more integrated value-based care, hospitals are taking steps to facilitate information exchange across the continuum. This includes greater alignment between hospitals and physicians. The physician portal is a key factor in strengthening physician-hospital alignment. In 84 percent of Most Wired organizations, physicians can exchange and see other facilities' results via the portal (HL7 or other point-to-point exchange) compared with 63 percent of all hospitals surveyed. To improve clinical outcomes and appropriate utilization of services, hospitals are providing physician performance comparisons that include both quality and cost-efficiency measures. Sutter Health, Sacramento, Calif., identifies clinical practices for which there may be unnecessary variation among providers, says Jonathan Manis, senior vice president and CIO. Examples of successes include improvement in generic medication prescription rates, reduction in advanced imaging ordering rates for low back pain and reduction in daily inpatient laboratory test ordering rates. ●



THE PHYSICIAN PORTAL IS KEY TO BETTER INFORMATION EXCHANGE ACROSS THE CONTINUUM

	2015 All	2015 Most Wired
Exchange/see other facilities' results in physician portal (HL7 or other point-to-point exchange).....	63%	84%
Communicate with patients (email, alerts)	63%	81%
Image exchange (centralized viewing for multiple facilities)	56%	77%
Use portal/EHR to exchange results into other EHRs (more advanced portals/HIEs)	56%	76%
Facilitate orders and scheduling information exchange among providers.....	54%	76%

75% of Most Wired organizations conduct physician performance comparisons that include both quality and cost-efficiency measures with the goal of improving clinical outcome and appropriate utilization of services.

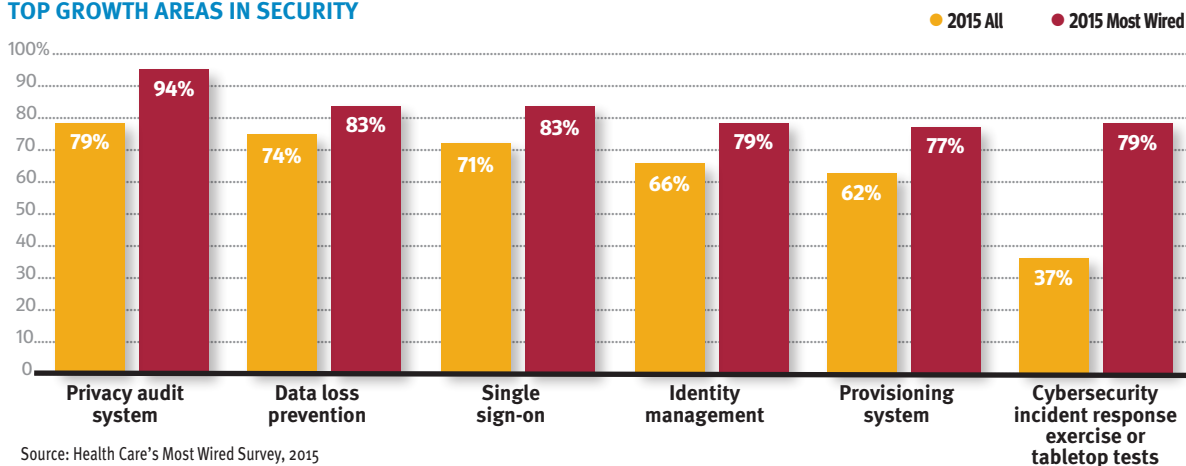
Source: Health Care's Most Wired Survey, 2015

Securing patient data in real-time

Efficient exchange of clinical and administrative data and increasing threats to data security and privacy require large investments to improve information management capabilities in an era of decreasing reimbursement, says Michael Blum, M.D., chief medical information officer, University of California San Francisco Medical Center. "It is more important than ever that we are diligent in staying ahead of the curve in order to provide optimal care to our patients," he says. Hospitals are taking more aggressive privacy and security measures to safeguard patient data. Top growth areas in security among the 2015 Most Wired organizations are privacy audit systems, provisioning systems, data loss prevention, single sign-on and identity management. ●



TOP GROWTH AREAS IN SECURITY



Source: Health Care's Most Wired Survey, 2015

2015 Most Wired

Susquehanna Health Williamsport, Pa. www.susquehannahealth.org	4	290	University of Illinois Hospital & Health Sciences System Chicago http://hospital.uillinois.edu	1	450
Sutter Health Sacramento, Calif. www.sutterhealth.org	23	4,422	University of Iowa Health Care Iowa City www.uihealthcare.org	3	729
Syringa Hospital and Clinics Grangeville, Idaho www.syringahospital.org	1	15	University of Kansas Hospital Kansas City, Kan. www.kumed.com	2	711
Tampa (Fla.) General Hospital www.tgh.org	1	1,018	University of Michigan Health System Ann Arbor www.uofmhealth.org	4	1,059
Texas Health Resources Arlington www.texashealth.org	14	3,700	University of Mississippi Medical Center Jackson www.umhc.com	5	722
ThedaCare Appleton, Wis. www.thedacare.org	7	410	University of Missouri Health Care Columbia www.muhealth.org	4	535
TMC Healthcare Tucson, Ariz. www.tmc.org	1	600	University of Pennsylvania Health System Philadelphia www.pennmedicine.org	4	1,893
TriHealth Cincinnati www.trihealth.com	4	770	University of Utah Health Care Salt Lake City http://healthcare.utah.edu	2	739
Trinitas Regional Medical Center Elizabeth, N.J. www.trinitashospital.org	1	380	University of Vermont Medical Center Burlington https://www.uvmhealth.org/medcenter/Pages/default.aspx	1	500
Trinity Mother Frances Hospitals and Clinics Tyler, Texas www.tmfhc.org	3	526	University of Wisconsin Hospital and Clinics Madison www.uwhealth.org	2	592
Tri-State Memorial Hospital Clarkston, Wash. www.tristatehospital.org	1	25	UPMC Pittsburgh www.upmc.com	20	5,100
Truman Medical Centers Kansas City, Mo. www.trumed.org	2	418	UT Southwestern Medical Center Dallas www.utsouthwestern.edu	2	612
UAB Health System Birmingham, Ala. www.health.uab.edu	1	1,157	UW Valley Medical Center Renton, Wash. www.valleymed.org	1	257
UC Davis Medical Center Sacramento, Calif. www.ucdmc.ucdavis.edu	1	619	VA Illiana Health Care System (VAIHCS) Danville, Ill. www.danville.va.gov	1	365
UCLA Health Los Angeles www.uclahealth.org	3	805	VA Northern Indiana Health Care System Marion www.northernindiana.va.gov	2	248
UCSF Medical Center San Francisco www.ucsfhealth.org	1	745	Valley Health System Ridgewood, N.J. www.valleyhealth.com	1	450
UF Health Gainesville, Fla. www.ufhealth.org	4	1,700	Valley Health System Winchester, Va. www.valleyhealthlink.com	6	594
Union Hospital Terre Haute, Ind. www.myunionhospital.org	1	350	VCU Health System Richmond, Va. www.vcuhealth.org	1	793
United Hospital Center Bridgeport, W.V. www.uhcwv.org	1	292	Veterans Health Administration Washington, D.C. www.va.gov	150	16,801
United Regional Health Care System Wichita Falls, Texas www.unitedregional.org	1	275	Via Christi Health Wichita, Kan. www.viachristi.org	8	1,121
UnityPoint Health West Des Moines, Iowa www.unitypoint.org	16	2,734	Vidant Health Greenville, N.C. www.vidanthealth.com	8	1,488
University Health System San Antonio www.universityhealthsystem.com	1	700	Virginia Mason Medical Center Seattle www.virginiamason.org	1	300
University Hospitals Cleveland www.uhhospitals.org	9	1,737	Virtua Health Marlton, N.J. www.virtua.org	4	1,074
University Medical Center Lubbock, Texas www.umchealthsystem.com	1	450	Washington County Hospital & Nursing Home Chatom, Ala. www.wchnh.org	1	25
University of Arkansas for Medical Sciences Little Rock www.uamshealth.com	1	386	Waterbury (Conn.) Hospital www.waterburyhospital.org	1	250
University of California, San Diego Health System http://health.ucsd.edu	3	586			
University of Colorado Health Aurora www.uchealth.org	5	1,595			

● Number of hospitals ● Number of beds

The 2015 Innovator Awards

The 2015 Innovator Awards Winners

St. Luke's Cornwall Hospital | Newburgh, N.Y. | www.stlukescornwallhospital.org
Program: Mobile ECG Project

University of Pennsylvania Health System | Philadelphia | www.pennmedicine.org
Program: Mobile EMR Data Review Tool (The App)

St. Joseph Mercy Oakland | Pontiac, Mich. | www.stjoesoakland.org
Program: The Intelligent Care System

The 2015 Innovator Awards Finalists

St. Joseph Mercy Oakland | Pontiac, Mich. | www.stjoesoakland.org
Program: Real-Time Dashboards: Managing Aligned, Transparent Metrics to Drive Operational Efficiencies

Middlesex Hospital | Middletown, Conn. | <http://middlesexhospital.org>
Program: The Development of an Alerting Software to Aid in Fall Prevention

The Ohio State University Wexner Medical Center | Columbus | <http://wexnermedical.osu.edu>
Program: Building the World's Most Advanced Cancer Hospital in the Age of Health Information Technology

Additional coverage of the **Most Wired Innovator Award** recipients will appear in the August issue of *H&HN*

2015 Most Wired

	Number of hospitals	Number of beds		Number of hospitals	Number of beds
Watertown (Wis.) Regional Medical Center www.uwhpwatertown.com	1	55	William W. Backus Hospital Norwich, Conn. www.backushospital.org	1	233
WellSpan Health York, Pa. www.wellspan.org	3	700	Windom (Minn.) Area Hospital www.windomareahospital.com	1	25
WellStar Health System Marietta, Ga. www.wellstar.org/pages/default.aspx	5	1,321	Winner (S.D.) Regional Healthcare Center www.winnerregional.org	1	25
Wentworth-Douglass Hospital Dover, N.H. www.wdhospital.com	1	116	Winthrop-University Hospital Mineola, N.Y. www.winthrop.org	1	590
West Shore Medical Center Manistee, Mich. www.westshoremcdcenter.org	1	25	Wood County Hospital Bowling Green, Ohio www.woodcountyhospital.org	1	196
West Virginia University Hospitals Morgantown www.wvuhealthcare.com	1	531	Yale New Haven (Conn.) Health System www.ynhh.org	3	2,130
Western Maryland Health System Cumberland www.wmhs.com	1	225	Yuma (Ariz.) Regional Medical Center www.yumaregional.org	1	406
Whitman Hospital and Medical Center Colfax, Wash. www.whitmanhospital.com	1	25			

● Number of hospitals ● Number of beds

Moving from volume to value

Real-time information-sharing across the care continuum is critical to safe, efficient and high-quality patient care. University Hospitals in Cleveland manages five accountable care organizations and the experience to date confirms the critical need for integrated and sharable data for risk management. “The value that we can deliver to our community is directly dependent upon our ability to share and take quick action on pertinent clinical data,” says CIO John Foley. The roadblock is definitely interoperability. “We must figure out how to make EHRs talk to each other, especially at transitions of care, which are the risk points for patients,” says Doug Shew, vice president information technology, Ministry Health Care in Milwaukee. Health systems are pursuing parallel paths for information sharing because the pace of integration and interoperability is so diverse among community health partners.

To efficiently manage care across populations, Most Wired organizations are leading in the adoption of new data analytics and population health tools to proactively treat patients and identify risk. Among Most Wired hospitals, 57 percent track quality of care across networks and physicians with evidence-based care compared with 39 percent of all surveyed hospitals. Cincinnati Children’s Hospital Medical Center formed a health network and has taken on risk for children with chronic disease in its local service area, and had great success in both reducing utilization and improving clinical outcomes. “We believe that technology is critical to enabling that transition, by making utilization data and outcomes data transparent to everyone involved in care,” says Marianne James, senior vice president, information services, and CIO. ●



PERCENTAGE OF HOSPITALS USING POPULATION HEALTH MANAGEMENT ANALYTICS AND REPORTING TOOLS TO:

	2015 All	2015 Most Wired
Identify and target patients for outreach	60%	81%
Empower care management workflow with data-driven intelligence	42%	59%
Track quality of care across networks and physicians compared with evidence-based medical standards	39%	57%
Integrate clinical and claims data so that they are accessible, searchable, and reportable across the care community	39%	52%

PERCENTAGE OF HOSPITALS USING A REVENUE-CYCLE AND CONTRACTS-MANAGEMENT APPLICATION THAT:

Aggregates and measures cost of care across settings	55%	74%
Reconciles charges and patient accounts to a monthly premium payment, billing co-payments and non-covered charges according to insurance agreements.....	37%	45%
Manages the distribution of payment for a bundle to the physicians, hospitals, and non-acute facilities that delivered the care	30%	40%

Source: Health Care’s Most Wired Survey, 2015



The 2015 Most Wired Advanced

These organizations meet the criteria for "Advanced" in all areas of the Most Wired Survey. Characteristics include: stronger security systems and faster disaster recovery; electronic tools to improve business processes, quality and patient safety; use of evidenced-based electronic order sets; automated review of CMS key indicators with compliance alerts; chronic disease management services for patients at home; and more. ●

Altru Health System | Grand Forks, N.D. | www.altru.org

Baptist Health South Florida | Coral Gables | <http://baptisthealth.net>

Children's Health | Dallas | www.childrens.com

Crozer-Keystone Health System | Springfield, Pa. | www.crozerkeystone.org

Detroit Medical Center | www.dmc.org

Emory Healthcare | Atlanta | www.emoryhealthcare.org

Geisinger Health System | Danville, Pa. | www.geisinger.org

Genesis Health System | Davenport, Iowa | www.genesishealth.com

Lakeland (Fla.) Regional Medical Center | www.mylrh.org

Mercy | Chesterfield, Mo. | www.mercy.net

ThedaCare | Appleton, Wis. | www.thedacare.org

University of California, San Diego Health System | <http://health.ucsd.edu>

University of Utah Health Care | Salt Lake City | <http://healthcare.utah.edu>



The Most Wired — Small and Rural

Blue Hill (Maine) Memorial Hospital | <http://bhmh.org>

Boone County Health Center | Albion, Neb. | www.boonecohealth.org

Carroll County Memorial Hospital | Carrollton, Mo. | <http://carrollcountyhospital.org>

Chadron (Neb.) Community Hospital and Health Services | <http://chadronhospital.com>

Charles A. Dean Memorial Hospital | Greenville, Maine | <http://cadean.org>

Colorado Springs Military Health System | Fort Collins, Colo. |

www.tricare.mil/FindDoctor/msm/csmhs.aspx

Columbia Memorial Hospital | Astoria, Ore. | www.columbiamemorial.org

Coulee Medical Center | Grand Coulee, Wash. | <http://cmccares.org>

Evergreen (Ala.) Medical Center | <http://evergreenmedical.org>

Fort Madison (Iowa) Community Hospital | www.fmchosp.com

Franklin Memorial Hospital | Farmington, Maine | www.fchn.org

Hammond-Henry Hospital | Geneseo, Ill. | www.hammondhenry.com

Indiana University Health Blackford Hospital | Hartford City | www.iuhealth.org/blackford

Kane (Pa.) Community Hospital | www.kanecomunityhospital.com

Lake Chelan Community Hospital | Chelan, Wash. | <http://lcch.net>

Littleton (N.H.) Regional Hospital | <http://littletonhealthcare.org>

Massena (N.Y.) Memorial Hospital | www.massenahospital.org

Ministry Calumet Medical Center | Chilton, Wis. | ministryhealth.org

Mt. San Rafael Hospital | Trinidad, Colo. | www.msrrhc.org

New London (N.H.) Hospital | www.newlondonhospital.org

Newport (Wash.) Hospital and Health Services | www.phd1.org

OhioHealth MedCentral Shelby Hospital | www.medcentral.org/main/shelbyhospital.aspx

Osceola (Wis.) Medical Center | www.myomc.org

Otsego Memorial Hospital | Gaylord, Mich. | www.myomh.org

RiverView Health | Crookston, Minn. | www.riverviewhealth.org

Rochelle (Ill.) Community Hospital | www.rochellehospital.com

Samaritan Regional Health System | Ashland, Ohio | www.samaritanhospital.org

Sebasticook Valley Health | Pittsfield, Maine | <http://sebasticookvalleyhealth.org>

Sparrow Carson Hospital | Carson City, Mich. | <http://carsoncityhospital.com>

Sunnyside (Wash.) Community Hospital | www.sunnysidehospital.com

Swisher Memorial Hospital District | Tulia, Texas | www.swisherhospital.com

U.S. Naval Hospital | Naples, Italy | www.med.navy.mil/sites/napoli

Union General Hospital Inc. | Blairsville, Ga. | <http://uniongeneralhospital.com>

Union Hospital Clinton (Ind.) | www.myunionhospital.org

Valley Regional Hospital | Claremont, N.H. | www.vrh.org

Woodlawn Hospital | Rochester, Ind. | www.woodlawnhospital.com



The Most Improved

Acadia Hospital | Bangor, Maine | <http://acadiahospital.org>

Alexian Brothers Health System | Arlington Heights, Ill. | www.alexian.org

Allegiance Health | Jackson, Mich. | www.allegiancehealth.org

Aroostook Medical Center | Presque Isle, Maine | <http://tamc.org>

Baptist Health | Montgomery, Ala. | www.baptistfirst.org

Baylor Scott & White Health | Dallas | <http://baylorscottandwhite.com>

Canton-Potsdam (N.Y.) Hospital | www.cphospital.org

Cape Fear Valley Health System | Fayetteville, N.C. | www.capefearvalley.com

Emerson Hospital | Concord, Mass. | www.emersonhospital.org

Ephraim McDowell Regional Medical Center | Danville, Ky. | www.emhealth.org

EvergreenHealth | Kirkland, Wash. | www.evergreenhealth.com

Faith Regional Health Services | Norfolk, Neb. | www.frhs.org

Froedtert Health & the Medical College of Wisconsin | Milwaukee | www.froedtert.com

Grand Lake Health System | St. Marys, Ohio | www.grandlakehealth.org

Inland Hospital | Waterville, Maine | <http://inlandhospital.org>

Magnolia Regional Health Center | Corinth, Miss. | www.mrhcc.org

Mercy Health System | Janesville, Wis. | <http://mercyhealthsystem.org>

Pocono Medical Center | East Stroudsburg, Pa. | www.poconohealthsystem.org

Somerset (Pa.) Hospital | www.somersethospital.com

Southampton (N.Y.) Hospital | www.southamptonhospital.org

Stormont-Vail HealthCare | Topeka, Kan. | <http://stormontvail.org>

Trinity Health | Minot, N.D. | www.trinityhealth.org

Twin County Regional Healthcare | Galax, Va. | www.tcrh.org

University Medical Center of Princeton at Plainsboro (N.J.) | www.princetonhcs.org

University of Chicago Medical Center | www.uchospitals.edu

Winona (Minn.) Health | www.winonahealth.org

How Can YOU Become One of Health Care's Most Wired?



For the 17th year, *H&HN* has named the Most Wired Hospitals and Health Systems based on the Most Wired Survey. The 2015 survey results build on the analytic structure that was implemented in 2010 after two years of redesign. The methodology sets specific requirements in each of four focus

areas. If any of these requirements are not met, the organization does not achieve the Most Wired designation. Thus, an organization may have many advanced capabilities, yet not achieve Most Wired status. The four focus areas are: (1) infrastructure; (2) business and administrative management; (3) clinical quality and safety (inpatient/outpatient hospital); and (4) clinical integration (ambulatory/physician/patient/community).

This year, there were additional requirements, many relat-

ed to meaningful use Stage 2:

- identity management and access controls
- CPOE for medication, lab and radiology orders
- use of assistive technology for five "rights" with point-of-care medication administration systems
- clinical decision support-enabled drug formulary check and high-priority hospital condition
- medication reconciliation
- electronic identification of patient-specific educational resources
- EHR-generated listing of patients for quality improvement
- patient portal functionality for access to health information
- summary care record for transitions of care

This year, 741 hospitals and health systems completed the survey, representing more than 2,213 hospitals — more than 39 percent of all U.S. hospitals. The number of hospitals and health systems designated as Most Wired is 338 organizations, down 10 percent from last year due to additional requirements. *H&HN* uses the same criteria to name the Most Improved and the Most Wired-Small and Rural.

From a set of separately submitted essays, a panel of hospital and information technology leaders identifies noteworthy IT projects and names the Innovator Award winners and finalists. IT projects are evaluated on achievement of business objective, creativity and uniqueness of concept, scope of solution and impact on the organization. — SUZANNA HOPPSZALLERN ●

The 2015 Most Wired Team

H&HN appreciates the efforts and support of the many individuals who contributed to the success of the Most Wired Survey and the research and analysis that go into the results article. The following is a partial list of the many individuals who contributed to the 2015 Health Care's Most Wired Survey.

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The 2015 Most Wired Survey and Benchmarking Study is produced by a partnership of *H&HN*, the American Hospital Association's Health Forum and the College of Healthcare Information Management Executives.

*Members of the Most Wired Advisory Board

