

IN THE EYE OF THE STORM: When Outcomes Matter, Telemedicine Delivers

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IN THE EYE OF THE STORM: WHEN OUTCOMES MATTER, TELEMEDICINE DELIVERS

During the last week in August, Noah's Ark found a new home in Houston. Unfortunately, it didn't deliver medical supplies. Between August 25th and 29th, Hurricane Harvey dropped an almost biblical 52 inches of rain on beleaguered Houston, flooding vast swaths of the metropolitan area. GPS data indicates the weight of that 33 trillion gallons of water depressed the surface of the affected region by 2 centimeters.¹

Hurricane Irma delivered a second knockout punch less than two weeks later. After devastating multiple Caribbean islands, Irma roared through Florida into Georgia and South Carolina. Florida evacuated over 7 million people as Irma approached. 7.4 million people lost power.

Harvey and Irma did not spare medical infrastructure. Almost 60 <u>Houston</u>area and <u>Southeastern U.S.</u> hospitals evacuated patients. Healthcare facilities that remained open struggled with high volume, understaffing, power outages and supply shortages.

With local health providers struggling to stay afloat (literally), telemedicine delivered a vital lifeline, connecting physicians throughout the country with patients and care-providers needing assistance. Telemedicine's timely interventions saved lives, lowered stress, enhanced care delivery and reduced suffering.

Absent telemedicine, the human misery inflicted by Harvey and Irma would have been staggeringly high. Given its effectiveness during times of crisis, it's perplexing that healthcare systems have not integrated telemedicine's capabilities more holistically into their standard delivery platforms.

¹https://www.theatlantic.com/technology/ archive/2017/09/hurricane-harvey-deformedthe-earths-crust-around-houston/538866/



TELEMEDICINE TO THE RESCUE

As flood waters surged in metropolitan Houston, thousands of Texans jumped into their boats to rescue their vulnerable and stranded fellow citizens. It was a remarkable example of a community under duress coming together. The "greater good" triumphed.

In that same community-oriented spirit, America's leading telemedicine companies volunteered their services to people and institutions in medical need. As reported in Med City News, leading telemedicine companies, including American Well, Doctor on Demand, MDLive and Teladoc provided free 24/7 physical and behavioral health consults in Texas and Florida through their nationwide virtual care networks.

The following statement by Teladoc's CMO Lewis Levy captures telemedicine's commitment and approach in addressing clear and compelling human needs:

"As hundreds of thousands of Americans are facing a time of need, Teladoc is working to make sure that they can count on readily available access to high-quality care, 24/7. Our call center reps and board certified and state-licensed physicians are standing by to help those families who have been displaced from their doctors and regular routines, but who still need non-emergency medical care."

Health systems also stepped up to provide free tele-consults. Dallas-based Children's Health installed a telemedicine station at a 5,000-person mega-shelter in Dallas. This proved essential for meeting pediatric care needs. Scott Summerall from Children's explained,

"For every adult that comes in, there will be about three children. We have doctors for adults available at the shelter 24 hours a day, but we don't have as many pediatric specialists, especially at night."

In Florida, Nemours Children's Health System and Florida Hospital offered free telemedicine services before, during and after Irma. Demand surged. Installations for Nemours' CareConnect app increased 550%. Between September 8th and 10th, over 2700 people registered for Florida Hospital's eCare services.

While the industry's philanthropy is admirable, it is telemedicine's ability to deliver high-quality care under crisis conditions that is truly impressive.

Telemedicine services scale rapidly. Customers can access needed services quickly and easily. Telemedicine platforms apply vital and scarce expertise where and when it's needed efficiently. It enables more effective triage and relieves pressure on overburdened care facilities and providers. Telemedicine delivers superior outcomes at low costs.





TELEMEDICINE'S FORCE MULTIPLIER

U.S. Army Medicine is all-in on <u>virtual health</u>. Over the last 10 years, Army Medicine has built a vast virtual care network across its global footprint. Their goal is to deliver the absolute best battlefield medicine possible and apply its capabilities broadly. This requires speed, diagnostic accuracy, readily-available specialists and secure communications.

Today's Army Medicine includes a dedicated and expanding Virtual Health division with its own <u>newsletter</u>. It has a big vision:

To place standardized use of virtual health into the toolkit of every clinician in Army Medicine in support of combat casualty care; readiness and health of the Force; a ready and deployable medical force; the health of families and retirees; enhancing medical diplomacy; and expanding boundaries with combatant commands

Army Virtual Health provides care in more than 30 countries across 18 time zones. Virtual healthcare services follow need. Almost 85% of its virtual specialty consults address behavioral health issues. Army Medicine's ability to deliver physical and behavioral healthcare services within a coordinated holistic network is its most compelling attribute.

In times of crisis, tele-behavioral health services also must scale quickly. In the aftermath of the 2009 and 2014 Fort Hood shootings, Army Virtual Health mobilized to connect survivors with behavioral health specialists throughout the world.

Results speak louder than words. The Navy is now paying the Army to install its virtual care network on 67 of its ships. Army generals around the globe are smiling.



TELEMEDICINE DELIVERS

Telemedicine is a game-changer. The development of tele-ICU care over the last 20 years has generated more benefit for patients than any other healthcare service improvement. It saves thousands of lives each year, reduces length of stay and lowers costs.

Banner Health was among the first health systems to centralize ICU operations. Working with Philips, Banner established tele-ICU remote monitoring centers in Mesa, AZ; Denver, CO; Santa Monica, CA; and Tel Aviv, Israel. Centralized ICU monitoring enables skilled clinicians to monitor patients in 430 ICU beds at multiple locations and respond immediately to patient emergencies.

Banner's mortality rates dropped significantly and remain impressively low. Apache II algorithms estimate that each year Banner's tele-ICU capabilities save over 2,000 lives and reduces cumulative ICU days by over 30,000 days. That translates into significantly better outcomes at significantly lower costs.

Banner's success in tele-ICU established a foundation for a broader movement into telemedicine, which Banner employs to standardize care delivery throughout its massive seven-state (including Alaska) geographic footprint.

Virtual healthcare can transform medical delivery across the care continuum by easing access, linking specialty care with targeted needs and enhancing care coordination. This is what led Mercy Health in St. Louis to launch the nation's first and only <u>Virtual Care Center</u>. Here's how Mercy describes virtual medicine:

"Mercy Virtual is transforming health care 24 hours a day, seven days a week, 365 days a year by creating new care models supported by telehealth teams and technology. Patients no longer have to physically seek out care or entirely reorient their lives to gain access to specialists. Virtual technology brings care to them."

Moreover, telemedicine is standardizing care delivery, reducing care variation and improving care outcomes. Minneapolis-based <u>Zipnosis</u> uses a structured, adaptive interview process in its telemedicine consults. This process suggests diagnoses and treatment regimens for routine conditions.

Last year, Zipnosis released an analysis of 1760 consults its virtual care platform conducted for patients with acute sinusitis. Physicians provided guideline-adherent care in 95.4 % of these patient encounters, far-higher than the 34%-66% levels of guideline-adherent care estimated in a 2016-released JAMA study of telemedicine consults.



ACCELERATING TELEMEDICINE ADOPTION

It shouldn't take catastrophic hurricanes to remind payers and providers that telemedicine is a vital component of high-quality, costeffective healthcare delivery. Yet, American healthcare lags in providing telemedicine services. The obstacles to broad implementation are primarily administrative and self-serving.

Ironically, last May, Texas became the final U.S. state to pass legislation allowing telemedicine consults without an initial in-person physician visit. Without this legislation, there would have been very few telemedicine consults delivered to Harvey's victims.

Inadequate reimbursement, Medicare restrictions governing telemedicine and burdensome state licensing requirements are among the most prominent economic and regulatory barriers preventing quicker adoption of telemedicine services into America's healthcare ecosystem.

Fee-for-service medicine rewards activity over outcomes. Too often, it fails to offer and pay for beneficial, cost-effective tele-consults. The system wins and patients lose.

Fortunately, great organizations including Army Medicine, Banner, Mercy and the growing number of telemedicine companies are collectively overwhelming "indumbent" practices and regulations. They're advancing telemedicine to provide the right care at the right time in the right place at the right price.

Outcomes matter. Customers count. Value Rules.



ABOUT THE AUTHOR

David Johnson is the CEO of 4sight Health, a boutique healthcare advisory firm. Dave wakes up every morning trying to fix America's broken healthcare system. He is a frequent writer and speaker on market-driven healthcare reform. His expertise encompasses health policy, academic medicine, economics, statistics, behavioral finance, disruptive innovation, organizational change and complexity theory. Dave's book, Market vs. Medicine: America's Epic Fight for Better, Affordable Healthcare, is available for purchase on <u>www.4sighthealth.com</u>.