



Kentucky Hospital Research & Education Foundation Emergency Preparedness Update for August 14, 2018

ASPR's Vision for Building Readiness: Sustaining Robust and Reliable Public Health Security Capabilities

Robert P. Kadlec, MD, MTM&H, MS, Assistant Secretary for Preparedness and Response, U.S. Department of Health and Human Services (HHS), has published his vision for the future. It is a multi-part blog series that describes ASPR's four pillars to achieving national health security: providing strong leadership, building a Regional Disaster Health Response System, sustaining public health security capabilities, and advancing an innovative medical countermeasures enterprise. This blog focuses on sustaining public health security capabilities.

- In his writings to date, these are the key focus areas:
- Coalitions as the foundation of our disaster health response system
- A regional disaster health response system
- Innovative approaches to incentivize healthcare preparedness
- Enhancing Disease Situational Awareness
- Strengthening Disease Containment
- Improving Risk Communication
- Improving Medical Countermeasure Distribution and Dispensing

Read the full August 10th Post: <https://www.phe.gov/ASPRBlog/pages/BlogArticlePage.aspx?PostID=314>

Read the *first* Feb 15 post in the series here: <https://www.phe.gov/ASPRBlog/pages/BlogArticlePage.aspx?PostID=300>

Lyme disease - and the Ticks that Carry It - Spreads across the U.S. to all 50 states
(NPR *Here and Now*) The threat of Lyme disease has spread to all 50 states. Quest Diagnostics analyzed 6 million blood samples and found the tick-borne disease is now in 100 percent of the country. The most cases were in Pennsylvania, but the disease is also becoming more common in places like Florida and California. Lyme have been found in 83 new counties across the country.

Listen to the podcast (9:35), or read highlights: <http://www.wbur.org/hereandnow/2018/08/09/lyme-disease-spreads-us>

CBS News story: <https://www.cbsnews.com/news/lyme-disease-has-now-spread-to-all-50-states-report-finds/?ftag=CNM-00-10aac3a>

Worries about security and healthcare exposures as DRC Ebola total grows to 52
(CIRDAP) Following a visit by top World Health Organization (WHO) officials to the latest outbreak of Ebola in the Democratic Republic of Congo (DRC), the WHO yesterday called for free and secure access for responders working in the affected conflict-affected area.

Over the past few days the DRC's health ministry confirmed 8 more cases, one of them a health worker from Mangina, the outbreak epicenter. According to an update yesterday, the outbreak total has risen to 52 cases, reflecting 25 confirmed and 27 probable cases. In addition, health officials are investigating 48 suspected infections. Two more deaths have been reported, lifting the fatality count to 39.

Full story: <http://www.cidrap.umn.edu/news-perspective/2018/08/worries-about-security-and-healthcare-exposures-drc-ebola-total-grows-52>

Earth Ex 2018 on August 22 - *Registration is Still Open!*
Join one of the largest cross-sector critical lifeline sector exercises in history.

[Click Here to Register!](#)

>> As of this morning - 804 organizations with 7188 players have registered!!

John Hopkins: Health Security Headlines
Extracts from [August 10,](#) [August 13](#) & [August 14, 2018](#)

[North Kivu: 48 Volunteers in Training Against the Spread of Ebola in Mangina](#) (*H5N1*) The International Committee of the Red Cross is training 48 volunteers to be deployed in Mangina and Beni City to combat the spread of Ebola. These volunteers will have the task of facilitating burials without the risk of contamination and dignity of the dead Ebola in Mangina and Beni City. [Go to article](#)

[Pan-Filovirus Serum Neutralizing Antibodies in a Subset of Congolese Ebola Virus Infection Survivors](#) (*The Journal of Infectious Diseases*) One year after a Zaire ebolavirus (EBOV) outbreak occurred in the Boende Health Zone of the Democratic Republic of the Congo during 2014, we sought to determine the breadth of immune response against diverse filoviruses including EBOV, Bundibugyo (BDBV), Sudan (SUDV), and Marburg (MARV) viruses. After assessing the 15 survivors, 5 individuals demonstrated some degree of reactivity to multiple ebolavirus species and, in some instances, Marburg virus. [Go to article](#)

[A Second Michigan Fair Shuts Its Pig Barn Over Swine Flu](#) (*Avian Flu Diary*) Two weeks after Pigs at Fowlerville Family Fair test positive for Swine Flu - which resulted in at least two human infections (see Michigan DOH: 2 People Test Positive for Influenza After Contact with Infected Swine) - there's news of another pig barn closure in adjacent Shiawassee county. [Go to article](#)

[Transmission of Influenza A in a Student Office Based on Realistic Person-to-Person Contact and Surface Touch Behaviour](#) (*International Journal of Environmental Research and Public Health*) Influenza A viruses result in the deaths of hundreds of thousands of individuals worldwide each year. In this study, influenza A transmission in a graduate student office is simulated via long-range airborne, fomite, and close contact routes based on real data from more than 3500 person-to-person contacts and 127,000 surface touches obtained by video-camera. [Go to article](#)

[Three-Dimensional Integrated Stretchable Electronics](#) (*Nature Electronics*) Stretchable electronics is an emerging technology that creates devices with the ability to conform to nonplanar and dynamic surfaces such as the human body. Current stretchable configurations are constrained to single-layer designs due to limited material processing capabilities in soft electronic systems. [Go to article](#)

[The Future of Chemical Weapons: Implications from the Syrian Civil War](#) (*Security Studies*) The conflict in Syria has reinvigorated debates over the future of chemical weapons (CW). Some argue that the limited international response to chemical attacks in Syria has weakened the norm against chemical weapons and set the stage for further proliferation and use. They argue that more forceful international policies are needed to reaffirm the norm and deter the use of CW. [Go to article](#)

Coming: ICD-10 Codes for Human Trafficking

(AHA Today) For the first time, 29 new ICD-10 codes will be available on Oct. 1 to allow providers to identify and assist victims of human trafficking and coding professionals to translate that information into data that will provide greater insights into the problem. The AHA's *Hospitals Against Violence* initiative, in collaboration with Catholic Health Initiatives and Massachusetts General Hospital's Human Trafficking Initiative and Freedom Clinic, along with support from other hospital and health system members, advocated successfully for the codes. Working together, the focus is now to educate providers, clinicians, coding professionals and others in the hospital likely to encounter victims.

Read more: <https://www.aha.org/news/insights-and-analysis/2018-08-09-aha-chi-and-mgh-secure-icd-10-codes-human-trafficking-new>

Fact sheet: <https://www.aha.org/factsheet/2018-factsheet-icd-10-coding-human-trafficking>

Briefing video: <https://www.aha.org/factsheet/2018-factsheet-icd-10-coding-human-trafficking>

Many U.S. schools still not fully prepared for disasters

(Reuters) Many U.S. public school districts lack comprehensive plans for responding to natural disasters, infectious disease outbreaks and other emergencies despite a federal initiative for all schools to address these needs by 2020, researchers say.

Overall, roughly four out of five school districts have plans for helping students and staff with special needs during an emergency situation, the study by the U.S. Centers for Disease Control and Prevention (CDC) found. Almost four of five school districts are prepared to provide mental health services to students, faculty and staff in the wake of a disaster.

And, nearly three of four school districts have developed reunification procedures to reconnect students with their families when they're separated during an emergency.

But less than two thirds of school districts have plans in place to handle an influenza pandemic or another type of infectious disease outbreak.

Full story: <https://www.reuters.com/article/us-health-kids-school-safety/many-u-s-schools-still-not-fully-prepared-for-disasters-idUSKBN1KT2GQ>

There's an App for That!

CDC Apps for On-The-Go Public Health Information

<https://content.govdelivery.com/accounts/USCDC/bulletins/204f87b>

Naloxone Administration Frequency during EMS Events Up 75%

(CDC MMWR) A cross-sectional evaluation of the large NEMSIS Public Release Research data sets from 2012 to 2016 demonstrated that the increase in the rate of all naloxone administration by EMS parallels the increase in rate of fatal opioid overdoses. During 2012–2016, the rate of EMS naloxone administration events increased 75.1%, from 573.6 to 1004.4 administrations per 100,000 EMS events, mirroring the 79.7% increase in opioid overdose mortality from 7.4 deaths per 100,000 persons to 13.3.

MMWR link: https://www.cdc.gov/mmwr/volumes/67/wr/mm6731a2.htm?s_cid=mm6731a2_w

Opioid Overdose Prevention Toolkit (Spanish)

(SAMHSA) Prevención de la Sobredosis de Opioides MANUAL DE INSTRUCCIÓN: Datos para miembros comunitarios Cinco pasos esenciales para el personal de primeros auxilios Información para los encargados de recetar medicamentos Consejos de seguridad para pacientes y miembros de la familia La recuperación de una sobredosis de opioides.

More & ordering info: <https://store.samhsa.gov/product/Opioid-Overdose-Prevention-Toolkit-Spanish-/SMA18-4742SPANISH>

(English): <https://store.samhsa.gov/product/Opioid-Overdose-Prevention-Toolkit/SMA18-4742>

Preventing School Violence: <https://store.samhsa.gov/product/SAMHSA-News-Preventing-School-Violence-A-Sustainable-Approach/SAM13-212>

Bullying Prevention: <https://store.samhsa.gov/product/SAMHSA-News-Bullying-Dispelling-Myths-Enhancing-Prevention/SAM14-221>

Kentucky Needs \$15 Billion to Fix Aging Drinking Water, Sewer Systems

(WFPL) Kentucky's aging drinking water and sewer systems need billions of dollars in investment to prevent system failures impacting public health and the environment, according to Kentucky's Energy and Environment Cabinet.

Current investments aren't enough and the state needs nearly \$15 billion in additional infrastructure improvements over the next 20 years, said Deputy Cabinet Secretary Bruce Scott to the Senate standing committee on natural resources (last) Monday.

About half of the infrastructure in place for water and sewers is past its design life, said Peter Goodman, Division of Water director.

- The state's 213 drinking water treatment plants are more than 38 years old, on average.
- About 800 of Kentucky's wastewater treatment plants are more than 36 years old, on average.

And many of the state's drinking water lines and sewer pipes are even older.

Full report: <http://wfpl.org/kentucky-needs-15-billion-to-fix-aging-drinking-water-sewer-systems/>

Stay hydrated, but drinking too much water can be deadly, doctors warn

(CBS) With August football practice fast approaching, every coach's favorite cheer will be to "stay hydrated" and "keep urine clear" during the summer heat.

In 2017, a University of Texas football coach created a urine-based "[Longhorn Football Hydration Chart](#)," which labeled players with yellow urine as "selfish teammates" and those with brown urine as "bad guys." This "hydration shaming" practice has permeated high school sports, thereby encouraging a sporting culture which equates superior performance with superior hydration.

Overzealous obedience to this hydration advice has uncovered a dark underbelly to superior hydration practices: [overhydration](#). When high school football player Walker Wilbanks died in Mississippi in August 2014 from overhydration, the doctor said that the cause of death was an "[unpredictable freak occurrence](#)."

Too much water, too little salt

Hyponatremia is caused by drinking too much water or sports drinks, which dilutes blood salt levels below the normal range. Any sudden drop in blood salt levels, from drinking more than the body can excrete, can cause all cells in the body to swell. Brain swelling from hyponatremia can cause headaches and vomiting, while muscle cell swelling can trigger whole-body muscle cramping.

What is most frightening, however, is that these symptoms mimic those of dehydration. They are often treated by medical staff with more fluids.

Full story and more detail: <https://www.cbsnews.com/news/stay-hydrated-but-drinking-too-much-water-can-be-deadly-doctors-warn/>

New study predicts warming climate will drive thousands to ER for heat illness

(Phys.org) The heat is rising. As California [battles](#) another round of wildfires, and 2018 [continues](#) toward becoming one of the hottest years on record, a new study predicts that in the coming decades the United States' heat problem will grow more dangerous and expensive.

Even under the best-case scenario, the new study suggests a warming climate will drive thousands more people into emergency rooms across the country and could cost tens of millions more dollars in treatment by 2050.

The study's authors looked at how many people visited emergency rooms for hyperthermia, or overheating, in 136 [metropolitan areas](#) in the U.S. between the summers of 2005 and 2012, and projected how the number of ER visits for hyperthermia may increase under [different climate scenarios](#). The study was published in *GeoHealth*, a journal of the American Geophysical Union.

Even under the most charitable climate scenario where emissions are restricted across the globe, ER visits for hyperthermia in the United States could still increase by 21,000 by 2050, costing up to \$38 million. Under this scenario, by 2090 hyperthermia visits could increase by up to 28,000, costing up to \$52 million. Read more: <https://phys.org/news/2018-08-climate-thousands-er-illness.html>

Female Heart Attack Patients Fare Better If ER Doc Is a Woman

(HealthDay News) Women are significantly more likely to survive a [heart attack](#) if their emergency physician is a woman, new research reveals.

The finding comes from a study of two decades of data on almost 582,000 heart attack patients admitted to hospitals across the state of Florida between 1991 and 2010.

And the research showed that the gender gap for patients treated by female physicians was only about 0.2 percent: 11.8 percent of men died, versus about 12 percent of women. But treatment by male physicians tripled the gap to 0.7 percent: 12.6 percent of men died compared to 13.3 percent of women. Full story: <https://www.medicinenet.com/script/main/art.asp?articlekey=214023>

Scientists Discover the Secret Weapon of Stomach Viruses

(NPR) New research published Wednesday in Cell Host & Microbe found that stomach infections, like norovirus and rotavirus, are more contagious and more potent when the virus particles cluster together. These findings may help treat — and even prevent — these viruses more effectively.

Learn more: https://www.npr.org/sections/goatsandsoda/2018/08/09/637015778/scientists-discover-the-secret-weapon-of-stomach-viruses?utm_medium=RSS&utm_campaign=globalhealth

Puerto Rico: 1,400 Died from Hurricane but Toll Still at 64.

Puerto Rico is estimating in a report to Congress that Hurricane Maria killed more than 1,400 people, though an island official said (last) Thursday that the confirmed toll remains frozen at 64 pending a scientific review due out soon. ([AP News, 8/9/18](#))

FBI Warns About Attackers Targeting Internet of Things Devices

(HealthIT Security) Healthcare organizations are increasingly deploying Internet of Things devices to improve employee productivity and patient care. However, those same devices are being targeted by cybercriminals, warned the FBI in an August 2 public service announcement.

These cybercriminals are searching for and compromising IoT devices to use as proxies for internet request to route traffic for cyberattacks and network exploitation, the PSA warned.

IoT devices that are being targeted include connected medical devices, routers, wireless radio links, time clocks, streaming devices, IP cameras, smart garage door openers, and network-attached storage devices.

Full story: <https://healthitsecurity.com/news/fbi-warns-about-attackers-targeting-internet-of-things-devices>

Small Unmanned Aircraft Systems Continue to Pose Threat

(HSIN) A new item, [(U//FOUO), JIB: *Small Unmanned Aircraft Systems Continue to Pose Threat, dated August 13, 2018*] has been posted to the HSIN-Critical Infrastructure (CI) portal at <https://hsin.dhs.gov/ci/home/Pages/default.aspx> under *Latest Documents and/or Recent CI Documents* section of the portal.

Note: Access to the site will require the use of your assigned HSIN-CI user name and password. Upon linking directly to the site, the user can then also navigate within HSIN-CI as well as within those Communities of Interest to which they have access. If you need to update your HSIN password, please click the link below to be directed to a self-service portal:

<https://auth.dhs.gov/identity/faces/forgotpassword?backUrl=https://hsin.dhs.gov/>

Georgetown, Cynthiaia Police Use Drones To Find Lost Hikers

Read more: <http://www.lex18.com/story/38835206/georgetown-cynthiaia-police-use-drones-to-find-lost-hikers>

Oregon Hospitals Release Workplace Violence Prevention Toolkit

(AHA Today) The Oregon Association of Hospitals and Health Systems has released a [toolkit](#) to help hospital leaders and others prevent and reduce violence against hospital workers, developed in collaboration with other health care and labor stakeholders. "We are proud to have worked in close partnership with the diverse group involved in this effort and we believe that the resulting toolkit will build on hospitals' existing safety programs to ensure we protect hospital staff from violence," [said](#) OAHHS President and CEO Andy Davidson. "At the end of the day, we all care deeply about keeping

people safe while they care for the sick and believe that we should take all steps possible to reduce violence in our hospitals and health care settings to zero."

The AHA's *Hospitals Against Violence* initiative also offers resources on combatting violence in communities and hospitals at www.aha.org/hospitalsagainstviolence.

Toolkit website: <https://www.oahhs.org/safety>

**Developing: Car rams U.K. parliament gate
Terrorism suspected**

(CBS - London) London's Metropolitan Police said Tuesday that a man was under arrest on suspicion of terrorism after driving through a group of pedestrians and then ramming a gate outside the Houses of Parliament in the British capital. Police said they were treating the crash as a terrorist incident, and noted that the investigation was being led by their counter-terrorism division.

**Hands-On Training from the Ground Up:
30 US First-Responders Study Methodology In Israel**

Among the inspiring words delivered by Knesset member Michael Oren to a group of 30 emergency responders from the United States was a shared belief that the two nations are in the battle against terrorism together. "We are fighting for the same cause, defending the same civilizations, with the same values and same beliefs. We are you, you are us," said Oren, who currently serves as Deputy Minister.

Cmdr. Guillermo Rivera, representing the Washington, D.C., Metropolitan Police Department's Special Operations Division and a first-time participant in the program, said his biggest take-away from his week in Israel was "seeing the trends here and the potential of what could happen" in the United States.

Red more: <http://matzav.com/hands-on-training-from-the-ground-up-us-first-responders-study-methodology-in-israel/>

Critics outraged over EPA's proposal on asbestos

(CBS) Critics are speaking out against a proposal put forth by the Environmental Protection Agency under President Trump that could allow for new uses of asbestos, which is heavily restricted because of its links to cancer and other diseases. The EPA, however, says press reports on the matter are incorrect, and the EPA's proposal would keep companies from manufacturing, importing or processing for new uses of asbestos without EPA approval.

Read more: <https://www.cbsnews.com/news/epa-proposal-on-asbestos-critics-outraged/?ftag=CNM-00-10aac3a>

Jurors award \$289 million to a man they believe got cancer from Monsanto's Roundup
<https://www.cnn.com/2018/08/10/health/monsanto-johnson-trial-verdict/index.html>

CVS to offer nationwide telemedicine service through smartphone video

(USA Today) CVS plans to offer a new nationwide telemedicine service in its continuing efforts to revamp the company and compete with potential online pharmacy options like Amazon. The telemedicine service will be offered for diagnosis of conditions such as colds and flu, skin issues and general wellness matters.

The video visit service, which will be provided on smartphones, will cost \$59 and can be paid by credit card or debit card. CVS, which is close to acquiring health insurance firm Aetna, said insurance coverage on the telemedicine service will be available "in the coming months."

The move reflects an expansion of the CVS MinuteClinic brand. It comes as the drugstore chain is seeking approval of its deal to acquire Aetna in a sweeping plan to diversify its business.

Read more: <https://www.usatoday.com/story/money/2018/08/08/cvs-minuteclinic-telemedicine-telehealth/928004002/>

InfraGard National Training Webinar (Members only)

Topic: Art and Science of Threat Management

Speaker: FRSecure CEO - Evan Francen

Date: Tuesday, August 28, 2018

Time: 3:00 - 4:00 PM ET

What do you know about managing threats in your organization? What are some of the common yet overlooked threats? Do you know where to start? Threats are everywhere. They come from outside your organization and inside your organization, and sometimes you find them in the mirror. In this webinar Evan Francen from FRSecure will help you sort through the matrix and understand the basics of Threat Management. Effective threat management requires an understanding of the basics (science) and creativity in implementation (art). You will learn what threat management is, the fundamentals of threat management and where many of us get it wrong.

You must register in advance to attend this webinar, at the following link:

https://zoom.us/webinar/register/WN_oMyrKpmHSsO94c1E6yeBaA

Learn how to join InfraGard: <https://www.infragard.org/Application/General/NewApplication>

The KHREF Emergency Preparedness Update is assembled several times a week. When events make it necessary, the Update may be sent out several times a day to keep our hospital and the healthcare community advised on preparedness news and information. Most of this information is compiled from open sources, and where possible reference links will be provided. There is an archive of [Emergency Preparedness Updates available here](#). If you would like to add or delete, or have something you would like to contribute to a future edition of the Emergency Preparedness Update, please contact rbartlett@kyha.com (include your current email address). The preparedness program for the Kentucky Hospital Association (KHA) and KHREF are supported by US DHHS ASPR HPP funds through a contract with Kentucky Public Health.