27 July 2012

Army Public Health Weekly Update

The Army Public Health Update is a collection of articles taken verbatim from public sources to offer awareness of current health issues and the media coverage given to them. The articles do not necessarily represent US Army Medical Department opinions, views, policy, or guidance, and should not be construed or interpreted as being endorsed by the US Army Medical Department.

U.S. Army Public Health Command

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The $17.7 million remodeling and expansion of the laboratory building and administrative wing of Public Health Command-South began July 17 during a renovation ceremony held on the lawn of Building 2631, as Lt. Col. Deydre Teyhen passed the sledgehammer to Randall Nimocks with Austin's J&J Maintenance Inc.

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Accused harassers' trial draws national interest

22 July - Danny Chen was tall and lanky, a smart young man from New York who joined the Army after high school because it was his dream. That dream ended Oct. 3 when Chen, an Army private, died of a self-inflicted gunshot in a guard tower in Afghanistan. At a small combat outpost in Kandahar province, military authorities have said, Chen -- the son of Chinese immigrants -- was taunted, harassed and punished by fellow soldiers, in part, because of his ancestry... This week, the first of eight soldiers accused of driving Chen to suicide will stand trial on Fort Bragg... Documents explaining the charges against the soldiers detail an environment where officials said soldiers were allowed to haze and harass other soldiers. At least three other soldiers, all ranked lower than specialist, are listed as victims of various abuses at the hands of the soldiers. Military.com

Diarrhea outbreak during U.S. military training in El Salvador

18 July - Infectious diarrhea remains a major risk to deployed military units worldwide in addition to their impact on travelers and populations living in the developing world. This report describes an outbreak of diarrheal illness in the U.S. military's 130th Maneuver Enhancement Brigade deployed in San Vicente, El Salvador during a training and humanitarian assistance mission... Personnel (n = 241) completed an epidemiological survey (87% response rate) and 67 (27%) reported diarrhea and/or vomiting during the past two weeks. The median duration of illness was reported to be 3 days (IQR 2–4 days) and abdominal pain was reported among 30 (49%) individuals. Presentation to the medical aid station was sought by (62%) individuals and 9 (15%) had to stop or significantly reduce work for at least one day. Microscopy and PCR analysis of 14 stool samples collected from previously symptomatic patients, Shigella (7), Cryptosporidium (5), and Cyclospora (4) were the most prevalent pathogens detected. Consumption of food from on-base local vendors (RR = 4.01, 95% CI = 1.53–10.5, p-value <0.001) and arriving on base within the past two weeks (RR = 2.79, 95% confidence [CI] = 1.35–5.76, p-value = 0.001) were associated with increased risk of developing diarrheal disease. The risk of infectious diarrhea is great among reserve military personnel during two week training exercises. The consumption of local food, prepared without proper monitoring, is a risk factor for deployed personnel developing diarrheal illness. PloS One

Mental disorders and mental health problems, active component, U.S. Armed Forces, 2000-2011

June 2012 - Mental disorders account for significant morbidity, health care utilization, disability, and attrition from military service; the health care burden associated with mental disorders has increased over the last several years. During the years 2000 through 2011, 936,283 active component service members were diagnosed with at least one mental disorder. Annual counts and rates of incident diagnoses of mental disorders have increased
The U.S. military is experiencing a suicide “epidemic,” with as many as 206 service members having taken their own lives this year, Defense Secretary Leon Panetta told lawmakers today. There were 104 confirmed military suicides this year, along with 102 investigations into potential suicides, Panetta testified before a joint hearing of the House of Representatives Armed Services Committee and the Committee on Veterans Affairs. Bloomberg

Pentagon’s $18 million tool for assessing traumatic brain injury fails to deliver

For at least two years the Military Health System has touted a software tool under development at a cost of more than $18 million as a way to help gather information about troops impaired by the signature wound of the wars in Afghanistan and Iraq -- traumatic brain injury, which results from exposure to roadside bombs. But a six-week probe by Nextgov shows this tool has nothing to do with the management or assessment of TBI cases. Nextgov

global

A new Body Shape Index predicts mortality hazard independently of Body Mass Index

Obesity, typically quantified in terms of Body Mass Index (BMI) exceeding threshold values, is considered a leading cause of premature death worldwide. For given body size (BMI), it is recognized that risk is also affected by body shape, particularly as a marker of abdominal fat deposits. Waist circumference (WC) is used as a risk indicator supplementary to BMI, but the high correlation of WC with BMI makes it hard to isolate the added value of WC... We developed A Body Shape Index (ABSI) based on WC adjusted for height and weight:

\[ \text{ABSI} \equiv \frac{\text{WC}}{\text{BMI}^{2/3} \text{height}^{1/2}}. \]

ABSI had little correlation with height, weight, or BMI. Death rates increased approximately exponentially with above average baseline ABSI... whereas elevated death rates were found...
The association of death rate with ABSI held even when adjusted for other known risk factors including smoking, diabetes, blood pressure, and serum cholesterol. ABSI correlation with mortality hazard held across the range of age, sex, and BMI, and for both white and black ethnicities (but not for Mexican ethnicity), and was not weakened by excluding deaths from the first 3 yr of follow-up. PLoS One

New approach to fighting malaria targets parasite, not mosquitoes

21 July - Attempts to control malaria — which kills about 1 million people a year — have traditionally focused on the use of drugs to treat the disease and insecticides to kill mosquitoes. Now some scientists have devised a sneakier strategy: feed mosquitoes a genetically engineered bacterium that will kill the malaria parasite from within. Insecticides have a major flaw, said Marcelo Jacobs-Lorena, a malaria expert at Johns Hopkins University and an author of the new study. "When insecticides are used — say, inside of houses — many of the mosquitoes in the area get killed but some will always survive. It's a perfect way to select for resistance," he said. That's because the mosquitoes most resistant to insecticides will survive and have insecticide-resistant offspring. The same problem exists for anti-malaria drugs... Ten years ago, his group was the first to show that mosquitoes could be genetically engineered to produce anti-malarial proteins in their guts, rendering them incapable of harboring the parasite. The idea was that the insects would be released into the wild and spread their new genes around. Los Angeles Times

New drug combination may shorten, simplify TB therapy

25 July - A combination of an experimental drug, an unapproved antibiotic used for treating other infections and an established tuberculosis drug may provide a simpler, more rapid treatment for TB, according to results from a small pilot trial. The combined treatment eliminated 99% of the TB bacteria from the patients' bodies within two weeks in the study, which suggests that it may be possible to dramatically shorten treatment regimens. And because the regimen does not use any drugs that the TB bacterium has become resistant to or that interfere with HIV treatment, they could potentially be used to treat TB patients who are HIV-positive and those who have drug-resistant TB -- both of which are growing problems. Los Angeles Times

Scientists say an HIV cure is within reach

25 July - An influential group of scientists gathered this week at the International AIDS Conference in Washington is committing to a goal that just five years ago would have seemed ludicrous: to cure HIV. After studying the virus for more than 30 years and developing potent drugs that transformed the disease from a death sentence into a manageable chronic condition, a growing number of researchers now say the search for a cure should be a major research priority. While acknowledging substantial challenges, they argue that the effort is necessary because the epidemic cannot be contained through
treatment and prevention alone. And recent medical and scientific advances — including the case of the first man definitively cured of the human immunodeficiency virus — offer proof that it’s possible. Spearheading this audacious challenge is the International AIDS Society, which developed a research agenda in collaboration with more than 40 scientists led by French virologist Francoise Barre-Sinoussi, who won the Nobel Prize in physiology or medicine in 2008 for her role in the discovery of HIV. Among the tasks: investigating where and how the virus can hide out in the body and studying the immune response of the select group of people who are naturally immune to HIV. Morris Daily Herald

US donates extra $150 million to battle AIDS

23 July - Science now has the tools to slash the spread of HIV even without a vaccine — and the U.S. is donating an extra $150 million to help poor countries put them in place, the Obama administration told the world’s largest AIDS conference Monday. "We want to get to the end of AIDS," declared the top U.S. HIV researcher, Dr. Anthony Fauci of the National Institutes of Health. How long it takes depends on how quickly the world can adopt those tools, he said — including getting more of the millions of untreated people onto life-saving drugs that come with the bonus of keeping them from infecting others. "No promises, no dates, but we know it can happen," Fauci told the International AIDS Conference. Boston Globe

World's first dengue vaccine beats three virus strains

25 July - The world’s first vaccine against dengue, developed by French drugmaker Sanofi SA, has shown the ability to protect against disease caused by three of four virus strains in a keenly awaited clinical trial in Thailand. Sanofi said on Wednesday the proof of efficacy was a key milestone in the 70-year quest to develop a viable dengue shot, adding the results also confirmed the safety profile of the vaccine candidate. Other drug companies are also working on dengue vaccines but Sanofi’s product is several years ahead. Reuters

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INFLUENZA

All U.K. kids to get AstraZeneca’s nasal flu vaccine

25 July - Britain is to extend its seasonal flu vaccination program to all children, free of charge, becoming the first country in the world to do so, the Department of Health said on Wednesday. Children will get AstraZeneca’s nasal spray vaccine rather than injections under the new scheme, which is expected to cost more than 100 million pounds ($155 million) a year and cover to up to 9 million children once it is fully established. The roll-out is likely to take some time, however, since the drugmaker will not have the capacity to deliver enough new vaccine until 2014 at the
earliest. Health experts broadly welcomed the move but said it would be important to keep up constant monitoring of responses and work ahead of time to ensure the plan is accepted by the public. Peter Openshaw of the centre for respiratory infection at Imperial College London said although there were "areas of debate" about vaccinating healthy children as well those in high-risk groups, he nevertheless strongly supported the plan. "Not only would it protect children against flu but it would also reduce the circulation of flu in the population and ... protect those at high risk of severe disease," he said. Reuters

CDC: Weekly Influenza Surveillance Report

During week 28 (week ending 14 July), 6.0% of all deaths reported through the 122-Cities Mortality Reporting System were due to P&I. This percentage was below the epidemic threshold of 6.7% for week 28. FluView

European Centre for Disease Prevention and Control: Weekly Influenza Surveillance Overview

During weeks 27-28 (2-15 July 2012), all reporting countries stated they were experiencing no activity or only sporadic activity of influenza-like illness. Weekly Influenza Surveillance Overview

Four novel H3N2 cases linked to pigs in Indiana

25 July - Four people who exhibited pigs at a recent county fair in Indiana were infected with a novel swine-origin H3N2 influenza strain, raising the number of such cases reported in the past year to 17, according to Indiana health officials. The four patients had illnesses resembling typical seasonal flu and have all recovered, according to Pam Pontones, MA, Indiana’s state epidemiologist. They showed pigs at the LaPorte County Fair in northwestern Indiana, which was held Jul 8 to 14. None of the patients were seriously ill or hospitalized, Pontones told CIDRAP News. She said the patients were a variety of ages, but for confidentiality reasons she declined to disclose their specific ages or other details about them. The same H3N2 variant—which was previously dubbed H3N2v—was found in all 12 pigs shown at the fair that were randomly selected for testing, according to Denise Derrer, a spokeswoman for the Indiana State Board of Animal Health (BOAH). All the human patients worked closely with swine, Pontones said, adding, "We have not identified any cases that appeared to be transmitted person to person. All four appeared to have direct swine contact, which facilitated transmission." CIDRAP

Mexico culls 3.8 million poultry in response to H7N3 outbreak

25 July - Mexico has now culled about 3.8 million poultry to stop the spread of H7N3 avian flu in Jalisco state, the nation's health agency said in a report today to the World Organization for Animal Health (OIE). Mexico’s National Food Quality, Food Safety and Health Service has tested 32,108 samples obtained from 363 at-risk poultry farms and has identified 35 H7N3 isolates. The farms house about 17 million birds. About 15 million doses of H7N3 vaccine will arrive this week as part of the country's infection control plan,
according to a story today from the Spanish-language news agency EFE. About 4.9 million birds have either died from the disease or been culled since the outbreak began about a month ago, the story said. Yesterday the Wall Street Journal reported that a rise in egg and poultry prices caused by the outbreak contributed to Mexico’s highest inflation rate in 18 months. **CIDRAP**

**Naval Health Research Center: Febrile Respiratory Illness Surveillance Update**

For the week ending 21 July 2012:

**Adenovirus**

- Vaccination against types 4 and 7 adenovirus was instituted at all basic training centers by mid-November 2011 (week 45).
- FRI rates and the proportion of FRI cases positive for adenovirus have decreased markedly since vaccine was reintroduced.
- A MSMR paper on the initial impact of adenovirus vaccine resumption was recently published.

**FRI surveillance** at all eight U.S. military basic training centers indicated FRI rates were at or below expected values. **NHRC Febrile Respiratory Illness Surveillance Update**

**Study: Postpandemic influenza B unexpectedly severe in adults**

25 July - Although 2009 H1N1 influenza A (pH1N1) infections have gained more notoriety, influenza B infections, often thought of as mild illnesses in adults, can be just as severe, say results of a Spanish study in the Journal of Infection. Fifty adult patients with laboratory-confirmed influenza B and 80 with pH1N1 who were hospitalized or were followed as outpatients because of pregnancy or solid-organ transplant were studied prospectively during the postpandemic 2010-11 flu season to compare features, severity, and outcomes. Median age of the flu B patients was 34 and of the pH1N1 patients 39. Disease was considered severe in 32 (64%) of flu B and in 55 (68%) of pH1N1 cases ($P = 0.57$). Five (10%) of the flu B and 14 (17.5%) of the pH1N1 patients were admitted to the intensive care unit ($P = 0.23$). Fourteen (28%) of the flu B patients and 30 (37.5%) of the pH1N1 patients had pneumonia ($P = 0.26$); in the pneumonia patients, bacterial co-infection was present in 5 (37.7%) with flu B and 4 (13.3%) with pH1N1 ($P = 0.11$). Overall, 5 (10%) flu B patients and 13 (16.3%) pH1N1 patients died ($P = 0.31$); the outcome was worse in those with pneumonia: 4 (28.5%) of the flu B pneumonia patients and 12 (40%) of the pH1N1 pneumonia patients died ($P = 0.46$). **CIDRAP**

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Another Salmonella hatchery outbreak: 37 ill in 11 states

23 July - The Centers for Disease Control and Prevention announced Monday that 37 people in 11 states have reportedly been infected with the same strain of Salmonella Hadar. The number of ill persons identified in each state is as follows: Arizona (2), California (1), Colorado (3), Idaho (5), Illinois (2), Oregon (5), Tennessee (2), Texas (1), Utah (5), Washington (9), and Wyoming (2). Of those known to be sick, eight have been hospitalized and no deaths have been reported. Health authorities said 37 percent of those sickened are children 10 years of age or younger. "Epidemiologic, laboratory and traceback findings have linked this outbreak of human Salmonella infections to contact with live poultry from Hatchery B in Idaho," said CDC in a release Monday. "Mail-order hatcheries, agricultural feed stores, and others that sell or display chicks, ducklings, and other live poultry should provide health-related information to owners and potential purchasers of these birds prior to the point of purchase. This should include information about the risk of acquiring a Salmonella infection from contact with live poultry." Food Safety News

Cargill beef tied to 33 person, 7 state Salmonella outbreak

24 July - A Salmonella Enteritidis outbreak linked to Cargill ground beef is affecting 33 people in 7 Northeastern states, the Centers for Disease Control and Prevention said Monday, a day after the company recalled nearly 30,000 pounds of product. According to CDC, 11 of those connected to the outbreak have been hospitalized and no deaths have been reported. An investigation by state, local and federal public health agencies has zeroed in on ground beef processed by Cargill Meat Solutions at a single facility in Pennsylvania as the likely source of the outbreak. Authorities were able to conclusively link illnesses in five case patients to ground beef products produced at the Cargill meat establishment (EST. 9400) after state labs found the outbreak strain in two separate leftover ground beef samples from patient homes. CDC said that the different agencies would continue coordinating with one another and using PulseNet to identify ill people connected to the outbreak. So far, the illness count for each state is: Maine (1), Massachusetts (3), New Hampshire (2), New York (14), Rhode Island (1), Virginia (2) and Vermont (10). Illness onset dates range from June 6 to June 26 and those sickened range from 12 years to 101 years old. More than half are female. Food Safety News

European E. coli outbreak sheds new light on treatment strategies

25 July - It is an accepted fact among medical experts that an E. coli infection should not be treated with antibiotics, as these drugs may worsen illness. But a new review of strategies used to treat victims of last year's European E. coli outbreak shows that a combination of
Two or more antibiotics may have helped patients recover from hemolytic uremic syndrome (HUS) - a potentially fatal complication of E. coli infection. The 2011 outbreak, centered in Northern Germany, was characterized by an unusually high number of HUS cases. Out of more than 4,000 people sickened by the E. coli O104:H4 bacteria, 22 percent developed this life-threatening condition. By contrast, E. coli O157:H7, the most common Shiga toxin-producing E. coli (STEC) in the United States progresses into HUS in 5 to 10 percent of patients. HUS occurs when the Shiga toxins released by E. coli bacteria damage blood vessels, preventing adequate blood flow as red blood cells get clogged in the vessels. Deprived of blood, the kidney cannot perform its function of expelling toxins through urine. Food Safety News

Might food become a vehicle for tropical disease?

24 July - It's highly unlikely, but if high in an African mango tree a bat dropped its guano on fruit and it was harvested and went unwashed on a 747 to America, you could end up with a deadly tropical foodborne illness characterized by bleeding through the eye socket. These are the possibilities that are considered at the International Association for Food Protection, which is meeting this week at the Rhode Island State Convention Center. It's where food professionals come to learn about the World Health Organization's (WHO's) Global Foodborne Infections Network, or PulseNet International, which keeps track of threats most of us don't even want to think about. It's where you come to learn about "unusual Salmonella serotypes" emerging out of Southeast Asia or new foodborne pathogens like E. coli O104:H4. These are the sessions attended by the people from the Centers for Disease Control and Prevention in Atlanta who will show up in bug suits if anything really goes badly in America. Food Safety News

WELLNESS

A single pill could treat Alzheimer's, Parkinson's AND multiple sclerosis

24 July - One pill with the potential to treat conditions including Alzheimer's disease, multiple sclerosis and strokes has been unveiled by scientists. Given early enough, it may even be able to stop full-blown Alzheimer's from taking hold. It works by dampening down the inflammation thought to be at least partly to blame for many degenerative brain conditions, as well damage caused by head injuries and strokes. Animal tests have been encouraging and the pill has been given to humans for the first time, although the results have yet to be released. Early results from animal studies suggest it could be effective against a plethora of devastating brain conditions. They include Alzheimer's and Parkinson's
disease, multiple sclerosis (MS), motor neurone disease, frontotemporal dementia, and complications from traumatic brain injury. Two of the drugs, known as MW151 and MW189, have been patented by US scientists at Northwestern University in Chicago. They work by blocking excess production of damaging immune system signaling molecules called pro-inflammatory cytokines. Daily Mail

Hunter gatherer clue to obesity

25 July - The idea that exercise is more important than diet in the fight against obesity has been contradicted by new research. A study of the Hadza tribe, who still exist as hunter gatherers, suggests the amount of calories we need is a fixed human characteristic. This suggests Westerners are growing obese through over-eating rather than having inactive lifestyles, say scientists. One in 10 people will be obese by 2015. And, nearly one in three of the worldwide population is expected to be overweight, according to figures from the World Health Organization. The Western lifestyle is thought to be largely to blame for the obesity "epidemic". BBC News

Symptoms of traumatic brain injury can persist for years

18 July - Doctors have long thought that if you ding your head playing sports or in an automobile accident, the concussive effects — headaches, dizziness, memory problems — would fade away with a little rest. But a new study out of the University of Oklahoma suggests that the symptoms of combat-related traumatic brain injury can last for years without decreasing in intensity. The study, which was presented at the annual meeting of the American Headache Society last month, looked at 500 veterans of the wars in Iraq and Afghanistan who, between June 2008 and April 2011, had screened positive for traumatic brain injury during deployment. The veterans were being treated at a special traumatic brain injury clinic at the Oklahoma City Veterans Affairs Medical Center. New York Times

The 10-minute workout, times three

25 July - ...As it turned out, exercise was helpful in controlling blood pressure, but breaking up the workout into three short sessions was significantly more effective than the single half-hour session. “The fractionized exercise led to lower average 24-hour blood pressure readings,” Dr. Gaesser says. It also resulted in lower blood pressure "load," or the number of incidences during the day when a volunteer’s blood pressure spiked above 140/90. Lowering blood pressure load is important, he points out, because a relatively high load "seems to be an indicator that someone with prehypertension is likely to progress" to full-blown, clinically high blood pressure. Over all, the results “are really encouraging,” he says. "For people who think that 30 minutes of exercise is too hard or takes up too much time, we can say, just do 10 minutes" three times during the day. And, conversely, if someone is tempted to dismiss a mere 10 minutes of walking as too meager to be
meaningful, “it seems clear that, at least for blood pressure control, fractionized exercise is actually more effective” than a single 30-minute bout. New York Times

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USAFRICOM

Africa: Researchers to test monthly vaginal ring for HIV prevention

24 July - Two large clinical trials in Africa are ramping up to test the effectiveness of a vaginal ring that releases an HIV-fighting drug for a month or more, offering women at high risk a discreet way to protect themselves from the virus that causes AIDS. The studies will test the effectiveness of a vaginal ring containing the antiretroviral drug dapivirine in thousands of women in several African countries to evaluate its ability to prevent new HIV infections and its long-term safety. If effective, the ring will add "a long-acting, female-initiated technology to the existing toolkit of HIV prevention options," said Dr. Zeda Rosenberg, chief executive officer of International Partnership for Microbicides (IPM), a nonprofit group founded by Rosenberg which is developing the ring. Reuters

Democratic Republic of Congo: Cholera outbreaks

23 July - The Democratic Republic of Congo (DRC) has reported a sharp increase in the number of cholera cases in the armed conflict area of North Kivu. According to the report, 368 new cases were reported from epidemiological week 24 (11-17 June) to epidemiological week 26 (25 June-1 July). The most affected areas include Birambizo, Goma, Karisimbi, Kiroshe, Mutwanga, Mweso and Rwanguba. There is concern that the security situation may increase difficulty in accessing the health-care facilities and could increase the number of severe and fatal cases. The current armed conflict in North Kivu also poses a risk of international spread of the disease to neighbouring countries such as Burundi, Rwanda, South Sudan and Uganda. WHO

South Africa: HIV awareness campaigns paying off

24 July - A new survey shows that South African HIV/AIDS awareness campaigns have been a big success. There’s more testing, condom use and male circumcision. The findings were released Tuesday at the 19th International AIDS Conference in Washington. South Africa has been one of the countries hardest hit by the epidemic. Some 5.2 million people were believed HIV positive in 2008. That was more than 10-and-a-half-percent of the population. VOA

Tanzania: Ferry boat death toll reaches 94

25 July – The death toll in last week’s MV Skagit boat accident in Zanzibar reached 94, after 16 more bodies were recovered in different parts of Unguja Island and Bagamoyo in Coast
Region. Minister of State in Zanzibar Second Vice-President’s Office, Mr Mohamed Aboud Mohamed, told journalists that 11 bodies were recovered along shores on Unguja and five were found in Bagamoyo. “Bodies that were recovered along shores in Bagamoyo will be buried at the area,” the minister explained. Earlier, the Zanzibar Police Force spokesperson, Inspector Mohamed Mhina, said 11 bodies that were recovered in Zanzibar were buried in one area in the outskirts of Zanzibar town. allAfrica

Zimbabwe: Typhoid outbreak in city

26 July - A typhoid outbreak has hit Harare and Chitungwiza, with at least 111 confirmed cases by yesterday. City officials attributed the outbreak to water shortages in the city and its satellite towns of Chitungwiza, Norton, Ruwa and Epworth. Typhoid fever, also known as typhoid, is a common worldwide bacterial disease, transmitted by the ingestion of food or water contaminated with the faeces of an infected person. Chitungwiza, Norton, Ruwa and Epworth receive water from Harare whose water treatment plant is facing mechanical problems. The majority of the cases are in Chitungwiza where at least 83 people were treated for the disease. Harare had 28 confirmed cases, with 25 of them occurring at a supermarket in the Avenues area, while three were in Mabvuku/Tafara suburb. City health services director Dr Prosper Chonzi said the supermarket has since been barred from selling fresh, raw and cooked foods. "We are still tracing the customers who bought food from the supermarket," he said. "We have a full outbreak response team in Mabvuku and Tafara. We have stationed a doctor at Mabvuku clinic to attend to the cases." Dr Chonzi said six of the affected people were detained at the Beatrice Infectious Diseases Hospital. He said the majority of the cases were treated and discharged depending on the severity of their conditions. All Africa

USCENTCOM

Egypt: Progress toward prevention and control of hepatitis C virus infection, 2001-2012

27 July - Worldwide, 130–170 million persons are living with chronic hepatitis C virus (HCV) infection (1), which, if left untreated, can result in cirrhosis and liver cancer. Egypt has the largest burden of HCV infection in the world, with a 10% prevalence of chronic HCV infection among persons aged 15–59 years (2). HCV transmission in Egypt is associated primarily with inadequate infection control during medical and dental care procedures (3,4). In response, the Egyptian Ministry of Health and Population (MOHP) in 2001 implemented a program to reduce health-care–associated HCV transmission and in 2008 launched a program to provide care and treatment. This report describes the progress of these programs, identifies deficiencies, and recommends enhancements, including the establishment of a comprehensive national viral hepatitis control program. Morbidity and Mortality Weekly Report
Treating drug addicts costs Saudi Arabia SR 3.6 bn

24 July - The Kingdom spent more than SR 3.6 billion treating around 150,000 narcotic addicts annually, according to a study by the Riyadh Chamber of Commerce and Industry’s Center of Information, Research and Studies. The study reviewed the negative impact of narcotics on the national economy in addition to losses in productivity and manpower. The study also revealed that in 2000 the Kingdom confiscated more than 254.8 tons of narcotics smuggled into the country. It pointed out that due to a national crackdown, the amount of confiscated drugs was reduced to 12.3 tons in 2006. The study, called ‘The Role of Social Responsibility in Preventing Narcotics’, shed light on the fact that drug-related offenses are becoming one of the major issues the national economy faces as they could threaten the future development of the country. If the responsibility of treating addicts lies with health care institutes, the study added, preventing drug-related offenses lies with social entities such as individuals, schools, universities, mosques, the media and research centers. Narcotic addictions, according to the study, cannot be combated individually and although treating them is important, prevention is equally important as it better serves the national economy. The research said treatment and rehabilitation costs are very high. The benefits from treatment programs are minimal because the majority of addicts are unemployed and only 18 percent of them seek treatment, said the study. Zawya

UAE: New cancer diagnostic units at Tawam Hospital

22 July - Tawam Hospital, a leading medical facility in the country, has acquired latest endoscopy technologies for more accurate diagnosis for cancer patients in the country. Two units of the innovative devices, including confocal laser endomicroscopy and single balloon enteroscopy, have been installed at the hospital. These units are known for safety, feasibility and excellent diagnostic abilities. The technologies allow three-dimensional reconstructions of complex objects in the human body. Dr Mazen Taha, Gastroenterology Consultant, said physicians at the hospital are now able to get a clearer picture of whether cancer or another disease is present and in return, reduce the number of unnecessary biopsies and false negatives. The endoscopy unit at the hospital, which operates in affiliation with Johns Hopkins Medicines, is a leading diagnostic centre in the country. In 2011, the unit performed over 3,300 endoscopies, including more than 2,170 lower and upper endoscopies. In the first quarter of this year, the hospital’s endoscopy team have completed over 1,800 consultations. The team performs up to 20 procedures per day and to cope with such demand, they work six days a week. Zawya
Technical Report: The climatic suitability for dengue transmission in continental Europe

July 2012 - The global incidence of dengue has increased over the past fifty years. Although the main mosquito vector for dengue is Aedes aegypti, the species Aedes albopictus, which is present in continental Europe, has also been shown to be capable of transmitting dengue, and in 2010, sporadic dengue transmission occurred in continental Europe. This project assesses which areas in Europe could be most amenable for dengue transmission. Data on the global distribution of Aedes aegypti, Aedes albopictus, and cases of dengue were collected. Using datasets for climate, environmental conditions, geography, and population density, mathematical modelling (nonlinear discriminant analysis) was conducted to assess the areas of Europe most climatically suitable for Ae. aegypti, Ae. albopictus, and dengue transmission. ECDC

United Kingdom: Differences in hepatitis B infection rate between ethnic groups in antenatal women, May 2004 – Dec 2008

26 July - Hepatitis B virus (HBV) is a major cause of morbidity and mortality worldwide. Although the United Kingdom (UK) prevalence of HBV is low, it is increasing. There is some evidence that the rate of infection is much higher in some populations living in Britain of non-white ethnicity or who were not born in Britain, compared with the British-born white population. We examined the prevalence of HBV infection in pregnant women through hepatitis B surface antigen (HBsAg) or e-antigen (HBeAg) in Birmingham UK between May 2004 and December 2008 and the effect of ethnicity on the relative risk of infection. There was a significant increase in the number of antenatal HBV infections detected over the study period from 106 cases in 2005 to 161 cases in 2008 (p=0.037). Women who define themselves as of black African, non-British white and Pakistani ethnicity had a markedly elevated rate of HBV infection (relative risk (RR): 11.25, 5.87 and 2.33 respectively) compared to the England average. Health organisations that serve populations with a high or increasing proportion of women originating from intermediate and high HBV prevalence areas of the world such as Africa, some parts of Europe and Asia, should anticipate a need for perinatal and postnatal prophylaxis to children born to HBV infected mothers. Eurosurveillance
Airports most likely to spread infection: JFK, LAX, Honolulu

25 July - When the next big epidemic of infectious disease strikes the United States, it will travel most quickly from airports in New York and Los Angeles, a new study suggests. But the third most "influential spreader" among U.S. airports may come as a bit of a surprise: It’s Honolulu International Airport, say researchers from MIT. The researchers used a model that looks at traffic numbers and connections among airports but also the movements of individual travelers as they go from airport to airport -- and linger for layovers. A video shows how those connections might spread a new flu virus or the next SARS in the early days of an outbreak starting at any of the airport locations. Honolulu made the top three because its sends people out over great distances, east and west, and because it connects with "massive hubs," the scientists write in the journal PlosOne. But Atlanta’s Hartsfield-Jackson, the world’s busiest airport only came in 8th: That’s because it often sends passengers to small regional airports -- so they aren’t as likely to spread any viruses they pick up to the rest of the world. USA Today

Doctors call for new U.S. painkiller labels to stop abuse

26 July - U.S. health regulators should change the prescription guidelines for opioid painkillers to prevent more people abusing the powerful and addictive medicines, urged a group of medical and public health experts. Thirty-seven doctors, researchers and public health officials signed a petition to the Food and Drug Administration, asking it to revise the prescription label for opioid painkillers. They want to prohibit use of the drugs for moderate pain, add a maximum daily dose, and only allow patients to take them for up to 90 days unless they are being treated for cancer-related pain. Changing the label would not limit how doctors prescribe painkillers. But it would stop pharmaceutical companies like Purdue Pharma, Endo Health Solutions Inc and Pfizer Inc from promoting the drugs for non-approved uses. Some researchers say aggressive marketing by drug companies has fueled overprescribing of opioids like oxycodone and methadone, synthetic versions of opium that are currently used to treat moderate or severe pain but are also highly addictive. Overdose from prescription drugs is now the leading cause of accidental death in the country, eclipsing car crashes and the combined impact of cocaine and heroin. The Centers for Disease Control and Prevention says the problem has become an epidemic. Fox News

How fake cancer drugs entered U.S.

26 July - From the outskirts of Winnipeg, Kris Thorckelson’s Canada Drugs grew to become a vital link for American consumers stung by high drug prices. The Internet pharmacy had by the middle part of the last decade filled millions of U.S. prescriptions with low-cost, Canadian supplies of everything from Pfizer Inc.’s PFE +1.03%cholesterol pill Lipitor to GlaxoSmithKline GSK +1.34%PLC’s asthma treatment Advair. But as Mr. Thorckelson's
company grew into a larger enterprise spanning three continents, so did the risks of counterfeiting drugs. In the final months of 2011, companies controlled by Mr. Thorkelson's Canada Drugs Group of Cos. sold two batches of fake Avastin, a cancer drug, to U.S. doctors, according to company documents reviewed by The Wall Street Journal, interviews with former employees and business associates, and people familiar with a federal probe examining the company's dealings. "The Avastin case was a watershed moment for law enforcement to recognize that this is not a problem that can be restricted to one part of the world," said Ronald Noble, secretary-general of the international police organization Interpol. "It let the U.S. know it's not immune to [counterfeit drugs]." The appearance of fake Avastin was widely publicized after the U.S. Food and Drug Administration warned in February that the counterfeits may have entered the U.S. supply chain. The Wall Street Journal

New York City's proposed ban on big sugary sodas draws heated debate

24 July - New York Mayor Michael Bloomberg's proposed ban on large sodas is expected to pass in September, but that didn't deter hundreds who showed up on Tuesday either to praise the measure as a way to battle obesity or oppose it as pointless and unfair. The proposal before the city Board of Health, the first of its kind in the nation, would limit servings of sugary drinks to 16 ounces (473 ml) at most restaurants, theaters, delis, vending carts and stadium concessions. With the Board of Health filled with Bloomberg appointees, the proposal is expected to pass when it is put to a vote on September 13. Reuters

U.S. aims at 25 percent reduction in new HIV infections by 2015

24 July - The United States is aiming to reduce the number of new HIV infections by 25 percent by 2015. A top U.S. health official told the International AIDS Conference the goal is part of a national HIV-prevention strategy that other countries should also develop. Assistant Secretary for Health Howard Koh told delegates from around the world that national strategies are critical to reducing the spread of AIDS. "National strategies outline a framework for responding to AIDS in ways that reflect the country's unique epidemiology, disease burden and trends," said Koh. "And they demonstrate importance of country ownership and the need to maximize the efficiency and effectiveness of HIV/AIDS programs." He said the United States would achieve the 25 percent reduction over the next three years by treating people who already have the virus, and by increasing the proportion who know that they have HIV. It is estimated that one in five do not their status. VOA

U.S.: CBO says healthcare ruling could save $84 billion

24 July - Last month's Supreme Court ruling that upheld President Barack Obama's 2010 healthcare law could save the U.S. government some $84 billion over 11 years, the non-partisan Congressional Budget Office said on Tuesday. The savings would come primarily
from a portion of the ruling giving the states an escape hatch from the law's expanded
program of healthcare coverage for the poor. That expansion of the Medicaid program
would be funded mostly by the federal government, but eventually states would have to
pick up a portion of that cost. The CBO also estimated that 3 million uninsured people who
would have received Medicaid coverage under the law before the ruling now will remain
with no insurance. The law, considered Obama’s signature domestic policy achievement,
aimed to extend medical coverage to more than 30 million uninsured Americans. Reuters

U.S.: Rabies surge in some states might be due to heat

26 July - This summer, some sensational encounters
between rabid wildlife and people have been making
headlines across the country... Is rabies on the rise this
summer? Raw surveillance data always needs to be taken
with a grain of salt, but the answer seems to be yes. Many
U.S. states — particularly in Texas and the Great Plains, but also in such far-flung locales as
New Mexico, Colorado, Arkansas, and Maine — are reporting larger-than-usual numbers of
wild animals testing positive for rabies. It’s possible that these increases might be due to
improved surveillance, or to a cyclical pattern of rabies infection rates in certain species of
animals. But health officials also point to 2012’s particularly mild winter. Higher-than-
average temperatures likely led common rabies vectors like raccoons and skunks, normally
dormant during the cold months, to become more active — which would thereby increase
the opportunity for contact between infected and uninfected animals, both within and
among species. Wired Science

China: Death toll from Beijing rainstorm climbs to 77

26 July - The death toll from rain-triggered disasters and accidents on Saturday in the
Chinese capital climbed to 77 after more bodies were recovered, the Beijing flood control
headquarters said Thursday. Of the 77 victims, 66 have been identified, including five
people who died while carrying out rescue work, Pan Anjun, a spokesman for the
headquarters, said Thursday night. Of the other 61 victims -- 36 men and 25 women -- 46
drowned, five were electrocuted, three died in housing collapses, two by mudslide, two by
traumatic shock, two from being hit by falling objects and one was struck by lightning, Pan
said. He said a further sharp increase in the death toll is not likely because the search for
missing persons is drawing to an end. "But we will not give up searching just yet," Pan said.
Most of the bodies were found in suburban districts, including 38 bodies that were
recovered in the hardest-hit Fangshan district, he said. Xinhua
India: 40 nuclear plant workers contaminated

24 July - More than 40 workers at a nuclear power station in northern India have been exposed to tritium radiation in two separate leaks in the past five weeks, company managers said on Tuesday. The first accident occurred on June 23 when 38 people were exposed during maintenance work on a coolant channel at the Rajasthan Atomic Power Station in Rawatbhata, senior plant manager Vinod Kumar told AFP. Two of them received radiation doses equivalent to the annual permissible limit, he said, but all those involved have returned to work. In a second incident last Thursday, another four maintenance workers at the plant were exposed to tritium radiation while they were repairing a faulty seal on a pipe. New York Daily News

India: Congo fever has killed seven in state

20 July - Crimean-Congo Hemorrhagic Fever (CCHF) has claimed seven lives in Gujarat. And according to the state government, about 18 people have been affected by CCHF... The government's reply stated that mammal and tick infection was common in sites of agriculture. Farm animals needed to be de-ticked before they are transported or delivered for slaughter. The government said that personal tick-avoidance measures had been recommended, such as the use of insect repellents, adequate clothing and body inspection for adherent ticks. The government said that the animal husbandry department had been roped in for implementing precautionary measures in areas where tick infestation had been reported. Areas where CCHF cases are reported are being thoroughly checked and made free of tick infestation, the government said. Times of India

Western fast food tied to heart risks in Asia

20 July - Even relatively clean-living Singaporeans who regularly eat burgers, fries and other staples of U.S.-style fast food are at raised risk of diabetes and significantly more likely than peers to die of heart disease, according to a new study. With globalization, fast food - widely regarded as nutritionally poor - has become commonplace in East and Southeast Asia. But there's been little research into the effects of western junk food on the health of non-western populations, especially those transitioning to more-prosperous lifestyles. "Many cultures welcome (western fast food) because it's a sign they're developing their economies," said Andrew Odegaard, from the University of Minnesota School of Public Health, who led the new study published in the journal Circulation. "But while it may be desirable from a cultural standpoint, from a health perspective there may be a cost," he told Reuters Health. Odegaard's team, which included researchers in the school of public health at the National University of Singapore, based their study on more than 60,000 Singaporeans of Chinese descent, who were interviewed in the 1990s, then followed for about a decade. Reuters
Brazil: Rocky Mountain spotted fever

24 July - The Epidemiological Surveillance section, Department of Health, City Hall, Nova Odessa, released last Wed 18 Jul [2012] confirmation from the Instituto Adolfo Lutz of the 1st case of Rocky Mountain spotted fever in the city in 2012. The case was registered in Jardim Sso Jorge, and all the residences of the district will receive a visit from health workers with guidelines about the disease. In addition, the Health Surveillance and Zoonosis Sector reinforced the warning to all residents of the city on the risks of entering riverside green areas inhabited by capybaras or other large animals. ProMED-mail