

THE PREPAREDNESS REPORT

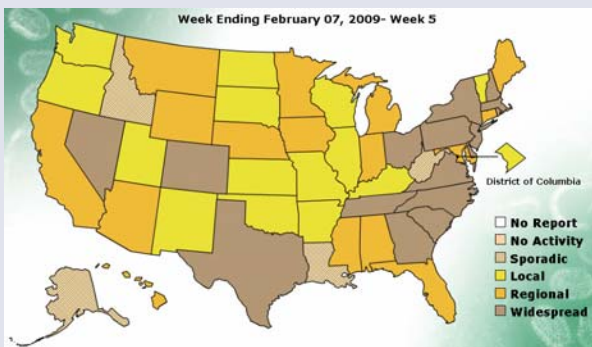
The Center for Emergency Preparedness and Disaster Response

Volume 7, Issue 4 | February 19, 2009

ELEVATED THREAT LEVEL

Seasonal Flu: Updated

For the week ending February 7th, CDC reported widespread influenza activity in 16 states (Colorado, Delaware, Georgia, Massachusetts, Nevada, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, and Virginia). Regional influenza activity was reported by 16 states (Alabama, Arizona, California, Connecticut, Florida, Hawaii, Indiana, Iowa, Maine, Maryland, Michigan, Minnesota, Mississippi, Montana, Nebraska, and Wyoming). Local influenza activity was reported by the District of Columbia and 14 states (Arkansas, Illinois, Kansas, Kentucky, Missouri, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Utah, Vermont, Washington, and Wisconsin). Sporadic activity was reported by Puerto Rico and four states (Alaska, Idaho, Louisiana, and West Virginia). The complete report can be accessed by going to: <http://www.cdc.gov/flu/weekly/>.

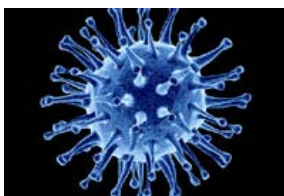


Increased drug resistance feeds New York Influenza spread: New

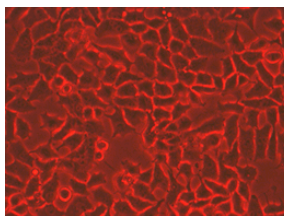
Flu cases have accelerated markedly on Long Island and throughout New York City over the past week to 10 days, state health officials report as their CDC colleagues grappled with the resistance of a key influenza strain to the leading antiviral medication oseltamivir. "Over the last two weeks, we've gone to widespread flu activity," said Dr. Gary Leonardi of the Nassau University Medical Center, where his virology lab serves as one of the 13 key sentinel sites in the state, testing samples from hospitals and doctors' offices throughout Long Island and the city. This flu season is complicated by growing signs of drug resistance in one of the major "A" strains of flu, and a vaccine that is not fully protecting against a circulating strain of B influenza. For additional information, please visit: <http://www.newsday.com/news/printedition/longisland/nyliflu116031440feb11.0.7731075.story>.

Avian Influenza: New

The WHO reports the cumulative number of confirmed human cases of avian influenza A/ (H5N1) as of February 2, 2009 as 404 cases with 254 deaths resulting in a case mortality rate of 63%. To view the cumulative and individual country indexes, please visit: http://www.who.int/csr/disease/avian_influenza/country/cases_table_2009_02_02/en/index.html.



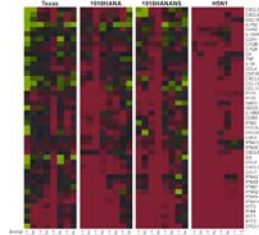
Avian Flu Virus



Cytokines
Credit: UNC

Two teams of researchers say they have identified a key area of the H5N1 bird flu virus that appears to be involved in its replication and hope the discovery could speed up the design of new drugs. The French team, led by Stephen Cusack at the Unit of Virus Host-Cell Interactions in Grenoble, France, said their findings would help in the development of "inhibitors", or blockers as potential new anti-influenza drugs. It is feared the H5N1 virus could kill millions in a pandemic if it ever mutated to transmit efficiently among people. There are currently two drugs, Roche's (ROG.VX) Tamiflu and GlaxoSmithKline Plc's (GSK.L) Relenza, which experts hope can be used to fight H5N1. For additional information on this story, please visit: <http://www.reuters.com/article/email/idUST115796>.

A research professor at Science Foundation Arizona and an interdisciplinary team of collaborators compared the recent avian strain known in the scientific community as H5N1 with genetic reassortants (DNA packaged as a chromosome is broken and fragments are exchanged with another independent chromosome) of the 1918 virus—source of the most severe influenza pandemic in recorded history. The results, which



Upregulation of cytokines, indicated in red (Larger view)

appear in the latest issue of the *Proceedings of the National Academy of Science*, are sobering. H5N1 was found to replicate profusely within the first 24 hours, causing severe damage to respiratory tissues while sending the host's innate immune response into a lethal overdrive, reminiscent of the trajectory of the original 1918 virus. In the new study, the group examined the host-pathogen responses to a common influenza virus and two reassortant strains of the 1918 H1N1 virus, each containing key surface antigens closely linked to the 1918 strain's potent virulence. The effects of these strains on host tissues and gene expression was compared with those of a 2004 Vietnamese isolate of the Highly Pathogenic Avian Influenza (HPAI) H5N1. In a non-human primate model of the disease, the avian virus was found to significantly outpace not only run-of-the-mill influenza but also the highly virulent 1918 reassortants, in terms of its relentless pathogenicity. To read a further summary of this study, please visit: <http://www.biodesign.asu.edu/news/shades-of-1918-new-study-compares-avian-flu-with-a-notorious-killer-from-the-past>.

- The Center for Infectious Disease Research & Policy at the University of Minnesota has published a very comprehensive overview of avian influenza entitled "Avian Influenza (Bird Flu): Implications for Human Disease." The compilation covers a large list of topics such as surveillance, human transmission, viral characteristics, food safety and relationships to a potential pandemic event. To view this resource, please visit: http://www.cidrap.umn.edu/cidrap/content/influenza/avianflu/biofacts/avflu_human.html.

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US DHHS Region I (New England) Emergency Planning Office (Office of the Assistant Secretary for Preparedness and Response – ASPR)

The following resources are identified to assist your preparedness activities:

http://www.ynhhs.org/emergency/US_DHHS_web_sites.pdf

Highlighted Resources:

Guidelines for Field Triage of Injured Patients:

http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5801a1.htm?s_cid=rr5801a1_e

Campus Community Emergency Response Team (C-CERT): A Train-the Trainer program for American Colleges and Universities (New England Area, Danbury, CT): <http://www.c-cert.msu.edu>.

Link Found Between Influenza, Absolute Humidity: **New**

Results of a study from Oregon State University published this week in the *Proceedings of the National Academy of Sciences (PNAS)* suggest a significant correlation between "absolute" humidity and influenza virus survival and transmission. When absolute humidity is low, – as in peak flu months of January and February – the virus appears to survive longer and transmission rates increase. This finding would seem to answer the decades-long search for answers as to why there is such a pronounced seasonality of influenza incidence, which peaks during the winter in temperate regions. To read a summary of this study, please visit:

<http://www.sciencedaily.com/releases/2009/02/090209205148.htm>.

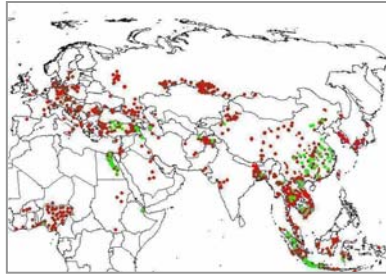
Biodefense Research Could Move to Kansas

Early: **New**

The United States may conduct biological defense research at Kansas State University prior to the construction of a new laboratory being built there for that purpose, Department of Homeland Security Secretary Janet Napolitano said yesterday. The Associated Press reported that construction of the \$450 million National Bio- and Agro-Defense Facility is expected to start next year and continue for roughly five years. The laboratory will replace the Plum Island Animal Disease Center in New York. Napolitano did not specify what research could be conducted at the university or how soon it might begin. To read the article from *Global Security Newswire*, please visit:

http://gsn.nti.org/gsn/nw_20090211_4394.php.

Avian Influenza: **New** (Continued)



Bird (red) and human (green) outbreaks of H5N1 since 2003
Credit: Center for Biosecurity

to oseltamivir. However, there have been several isolated cases of oseltamivir resistance that emerged during oseltamivir treatment, and at least two girls in Egypt seem to have been infected with a resistant virus. The sudden, as yet unexplained, global emergence of oseltamivir resistance among H1N1 viruses has heightened fears of widespread oseltamivir resistance among H5N1 viruses. To read the latest brief, please visit <http://www.upmc-cbn.org/>.



Credit: MSNBC

Funds for pandemic influenza preparedness were stripped from a massive economic stimulus bill that appears headed for the President's signature. Public health advocates say they have to look to the regular budgeting process for the next chance to get some pandemic funding. The House of Representatives had included \$900 million in pandemic preparedness funds in its version of the massive stimulus package, but it appeared that the conference committee that ironed out differences between the House and Senate versions removed all but \$50 million. The \$50 million left in the bill, listed as a Public Health and Social Services Emergency Fund, is for improving information technology security at the Department of Health and Human Services (HHS). The sums removed included \$420 million for pandemic flu and \$430 million for biomedical advanced research and development. To read the entire summary from the University of Minnesota, please visit: <http://www.cidrap.umn.edu/cidrap/content/influenza/biz-plan/news/feb1309funding.html>.

- Researchers in Japan reported on January 29th that they had developed an influenza vaccine that works against multiple viruses and could prevent a deadly pandemic of bird flu mutations. Currently flu vaccines use a protein covering the surface of viruses but the protein frequently mutates to make the vaccines ineffective. The newly developed vaccine is based on common types of protein inside the bodies of flu viruses as they rarely change, Uchida told AFP. The viruses used are the Soviet-A and Hong Kong-A along with the deadly H5N1 strain of bird flu. For further information, please visit: <http://www.google.com/hostednews/afp/article/ALeqM5iUQA0nBgPzPZakGxJQ05bU2JCwA>.

Maine Authorities Remove Radioactive Material and Instructions for Building a "Dirty Bomb": **New**



Dirty bomb materials and instructions found
Credit: VillageSoup.com

The *Bangor Daily News* reported Wednesday that four small jars of depleted uranium, a byproduct of the uranium enrichment process, and thorium 232, another radioactive material, were discovered in a home along with other chemical compounds and four 1-gallon containers of 35 percent hydrogen peroxide. The radioactive materials were discovered in the home of James Cummings, who had possible ties to white supremacist groups, was killed by his wife on Dec. 9th. To read the Associated Press article, please visit:

<http://www.fosters.com/apps/pbcs.dll/article?AID=/20090211/NEWS0104/902119879>.

Arson and "Forest Jihad": **New**

In light of the ongoing arson suspected in the Australian wildfires, U.S. officials continue monitoring terrorist web sites after discovering a call for using forest fires as weapons against "crusader" nations, in what may explain some recent wildfires in places like southern California and Greece. A terrorist website recently carried a posting by imprisoned Al Qaeda terrorist Abu Musab Al-Suri that called for "Forest Jihad." The statement, in Arabic, said that "summer has begun so do not forget the Forest Jihad." The writer called on all Muslims in the United States, Europe, Russia and Australia to "start forest fires." For more information, please visit: <http://www.nationalterroralert.com/updates/2008/01/15/forest-fire-jihad-being-threatened-on-terrorist-websites/>.

Financial Crisis: Top Security Threat: **New**

Director of National Intelligence Dennis C. Blair while testifying before Congress said that instability in countries around the world caused by the current global economic crisis, rather than terrorism, is the primary near-term security threat to the United States. Blair said the immediate fallout from the worldwide economic decline for the United States would be "allies and friends not being able to fully meet their defense and humanitarian obligations." He also raised the specter of the "high levels of violent extremism" in the turmoil of the 1920s and 1930s along with "regime-threatening instability" if the economic crisis persists over a one-to-two-year period. To read the entire article, please visit:

http://www.washingtonpost.com/wp-dyn/content/article/2009/02/12/AR2009021202365.html?wprss=rss_nation.

Nuclear Subs Collide in Atlantic: **New**



HMS Vanguard
Credit: PA (BBC)

A Royal Navy nuclear submarine was involved in a collision with a French nuclear sub in the middle of the Atlantic. *HMS Vanguard* and *Le Triomphant* were badly damaged in the crash in heavy seas earlier this month. The two submarines are key parts of each nation's nuclear deterrent, and would have been carrying missiles, though both the UK and France have insisted there was no danger of a nuclear incident. Both vessels can carry up to 16 missiles with nuclear warheads. To read the story from BBC, please visit:

http://news.bbc.co.uk/2/hi/uk_news/7892294.stm.

Protecting the Health care Workforce

Ensuring that all of your staff know how to protect themselves during a disaster in which they may be exposed to a chemical, biological or radiological substance is an important factor in their decision to come to work and fulfill their role in a disaster and your facility's ability to provide ongoing health care services. OSHA requires that employees performing certain functions complete training programs that prepare them to don and doff appropriate levels of personal protective equipment (PPE) and recognize when such precautions may be necessary. YNH-CEPDR has developed a comprehensive suite of courses that addresses these OSHA requirements and provides an effective method to train your staff in proper PPE procedures. Whether your need is for fit testing N95 respirators or operations-level PPE and decontamination training for your decontamination team, YNH-CEPDR has a solution for your organization. For more information, please contact center@ynhh.org.

Preparedness: **New**



Credit: Discover Magazine

The biodefense lab at Fort Detrick in Frederick, MD began a thorough search of its freezers recently to ensure that it has an accurate inventory of the deadly bacteria, viruses and toxins accumulated there over a period of 40 years. Col. John P. Skvorak, commander of the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID), ordered a "stand-down," or pause in ordinary operations, and a complete inventory last week after 20 vials of "biological select agents and toxin" (BSAT) were discovered in a freezer box that was listed as containing only 16 vials. Purportedly, the problem lies with unused, older samples of research materials that were in storage before the institute's records were computerized in 2005. The research at USAMRIID is designed to examine highly hazardous biological agents in order to design effective protection in the form of vaccinations or antidotes. To read the entire article, please visit: http://www.baltimoresun.com/news/nation/bal-te.md.detrick10feb10.0.6479019_story.

- State and local officials in Massachusetts attended one of two Open Houses held last week to provide an opportunity for attendees to hear first hand about State and Federal support, including Public Assistance and Mitigation programs, available during disaster declarations. The attendees were addressed by Federal and State officials on topics including Public Assistance, Mitigation Grant Programs and Joint Field Office Operations. Additionally, the attendees at the Holyoke and Framingham Open Houses received a tour of the Joint Field Office to gain a better understanding of the available subject matter expertise that is brought to a state when a presidential disaster is declared. For further details, please visit: <http://www.fema.gov/news/newsrelease.fema?id=47455>



Strategic National Stockpile
Credit: www.whitehouse.gov

Maryland-based biotechnology firm Human Genome Sciences announced on February 2nd that it has started shipping 20,000 doses of a new treatment for inhaled anthrax to the U.S. Strategic National Stockpile. ABthrax is the first drug designed to neutralize the lethal toxins released in the body by anthrax bacteria. The drug, which prevents anthrax toxins from penetrating and killing cells, represents one form of defense against anthrax attacks in a three-pronged U.S. strategy. The government is also stockpiling vaccines that must be administered weeks before exposure and antibiotics that kill anthrax bacteria but cannot neutralize the toxins released in the body through infection. Antibiotics may be insufficient treatment if victims do not become aware of the infection before the toxins are already present in their bodies, the firm said in a press release. To read the press release, please visit: <http://www.hgsi.com/latest/human-genome-sciences-begins-delivery-of-first-in-class-anthrax-treatment-to-u.s.-strategic-national-stoc-4.html>.

- The first known case of Marburg hemorrhagic fever in the United States was treated at Lutheran Medical Center in Denver in January 2008 and confirmed by the CDC in December, 2008. The disease, which is caused by a virus indigenous to Africa, is transmitted by contact with infected animals or the bodily fluids of infected humans. The patient, who was not identified, had apparently contracted the virus when he visited Uganda where he came into contact with fruit bats, which are capable of harboring the Marburg virus. Marburg has also been classified as a potential bio-weapon by the American Medical Association Working Group on Civilian Biodefense. To read about the Denver incident, please visit: <http://rockymountainnews.com/news/2009/feb/06/rare-marburg-hemorrhagic-fever-shows-denver/>. To read the AMA Consensus Statement *Hemorrhagic Fever Viruses as Biological Weapons*, please visit: <http://jama.ama-assn.org/cgi/content/full/287/18/2391>.



Mount Redoubt, Alaska
Credit: AVO

Given the recent increase in volcanic activity in the state of Alaska as well as the seismically active Pacific Northwest, the CDC has published a page of volcano preparedness resources. This was prompted largely by the level of seismic activity at Mount Redoubt Volcano, about 100 miles southwest of Anchorage, Alaska. CDC provides information on how to stay safe during and after a volcano eruption. To visit the resource page, please visit:

<http://emergency.cdc.gov/disasters/volcanoes/>.

- FEMA has awarded Accenture Ltd a \$58 million contract to provide program-management and business-architecture services for the agency's Flood Risk Mapping, Assessment and Planning program, which is designed to help reduce the nation's vulnerability to natural hazards. The program will provide an integrated national assessment of flooding risks based on digital flood-hazard data and Web-accessible data and will enable communities to develop action plans and make informed risk-management decisions that reduce the loss of life and property. To read the entire press release, please visit: <http://biz.yahoo.com/bw/090209/20090209005166.html?.v=1>.

Pandemic Influenza

Planning: **New**



A pandemic influenza could result in an estimated 30-40% reduction of workforce and significant absenteeism for up to 12 weeks, negatively impacting patient care and essential services. How will your organization manage the increased demand for services, staff, supplies and other critical resources?

The Yale New Haven Center for Emergency Preparedness and Disaster Response (YNH-CEPDR) can assist your organization in preparing for a pandemic through services such as:

- Development of a business impact analysis, continuity of operation plan and business continuity plan
- Development of pre-event communication messages, workforce surge impact, recovery resources and recovery team task lists
- Assessments of current pandemic influenza planning; review of emergency operations plans and emergency management plans (EMPs) for compliance with The Joint Commission, NIMS, CMS, OSHA, CDC and NFPA requirements
- Online, instructor-led or WebEx training courses recommended for health care workers in acute care hospitals, community health centers, home health agencies, urgent care centers, skilled nursing facilities and public health agencies to address the impact and preparations required pre-pandemic event and during a pandemic event
- Assistance with conducting tabletop exercises to discuss the Incident Command System (ICS), implementation of the EMP, communication practices and mitigation practices during a pandemic influenza event To learn more how YNH-CEPDR can assist your organization, please call (203) 688-3224 or e-mail center@ynhh.org.



Positions Available at YNH-CEPDR

YNH-CEPDR has an opening for a Drills and Exercise Specialist and a Program Coordinator for National Projects. Please contact YNH-CEPDR at (203) 688-3224 or center@ynhh.org for more information, or apply online at <http://www.ynhhscares.org/>.

Preparedness: **New (Continued)**



CDC's Cool Tip of the Week: Older adults often make less body heat because of a slower metabolism and less physical activity. If you are over 65 years of age, check the temperature in your home often during severely cold weather. Also, check on elderly friends and neighbors frequently to ensure that their homes are adequately heated. For further information on winter/cold weather safety, please visit:

<http://emergency.cdc.gov/disasters/winter/staysafe/>.

- A mock disaster drill that was the first of its kind to be conducted on such a large scale took place at the 167th Airlift Wing of the West Virginia Air National Guard. The scenario involved the need for a C-5 Galaxy aircraft to make an emergency landing at the 167th base when the crew and passengers fell ill with flu-like symptoms on a returning flight from Afghanistan. According to the exercise scenario, it is later determined through a series of tests that those on board have been exposed to anthrax from souvenirs such as rugs and other wool products brought home by the passengers aboard the aircraft. The exercise was unique in that there had never been a scenario involving the presence of a weapon of mass destruction on a C-5, according to Guard representatives. To read the article, please visit: http://www.journal-news.net/page/content_detail/id/514843.html.



Credit: Don Emmert, AFP/Getty Images

The first federal evaluation of mass-transit security revealed that more than 75% of the nation's major rail and bus systems are not meeting Homeland Security guidelines. By contrast, 96% of airlines are complying with security requirements, according to a new report by the department. The report does not identify which rail and bus systems fell short. The assessment comes as new Homeland Security Secretary Janet Napolitano says she plans to focus more on mass transit, possibly through "redeployment" of resources from other areas. To read the article, please visit: http://www.usatoday.com/news/washington/2009-01-28-transit_N.htm?POE=click-refer.

Disasters around the World: **New**

- A Continental Connection Bombardier Dash 8 aircraft was approaching Buffalo Niagara International Airport when it crashed into a house in Clarence Center, a suburb of Buffalo, last Thursday. The crash, thought to be related to wing icing and possibly pilot error, killed 49 people on the aircraft and one on the ground. The last fatal crash involving a scheduled carrier in the United States was a ComAir regional jet in Lexington, KY, in August 2006. The crew attempted to take off from a runway that was too short; 47 passengers and 2 of the 3 crewmembers were killed. For further updates, please visit: <http://www.nytimes.com/2009/02/13/nyregion/13crash.html?emc=eta1>.
- At least 15 people died and seven were injured when a three-story wooden hostel erupted in flames in southern Russia. The house was said to have burned out fast, "like a box of matches" according to an official with the emergencies committee of Astrakhan region. He said the fire in a hostel built for local workers but inhabited by nearly 80 squatters broke out late on Saturday in the town of Molodyozhny. Russian media said the hostel was closed after an official commission found its condition dangerous for residents and electricity was switched off, but squatters reconnected it using makeshift wiring. For further information, please visit: <http://www.gantdaily.com/news/36/ARTICLE/43860/2009-02-15.html>.
- The Galeras volcano, located near southwest Colombia's border with Ecuador, erupted on Saturday, leading the government to issue a "red alert" for the region. The Colombia Institute for Geology and Mines issued an evacuation order for about 7,000 people living near the volcano. There were not believed to be any fatalities or injuries in the blast, which happened at about 7:10 p.m. ET (12:10 a.m. Sunday GMT) For additional updates on this incident, please visit: http://www.usatoday.com/news/world/2009-02-14-volcano-colombia_N.htm.

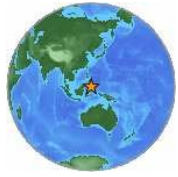


Oklahoma tornado
Credit: Bill Waugh/AP

A cluster of unusual February tornados touched down on February 11th in the Oklahoma City Metropolitan area as well as down state. A half-dozen homes and several businesses were damaged in Oklahoma City and suburban Edmond, but no serious injuries were reported there. The town of Lone Grove, just north of the border with Texas was hardest hit. The EF-4 (175 mph) tornado, which was described as being wedge shaped and a half-mile wide, killed 9 people and injured 14 and, according to the National Weather Service, was on the ground for one hour. For updates on the storm and recovery efforts, please visit: <http://www.koco.com/weather/18686170/detail.html>.

- Mount Redoubt, a volcano 100 miles southwest of Anchorage, continues to see significant activity over the past week prompting geologists to warn that an eruption may be imminent. The mountain's status remains as a *Code Orange* Watch (the volcano is exhibiting heightened or escalating unrest with increased potential of eruption). Scientists from the Alaska Volcano Observatory have been monitoring activity round-the-clock. For the most current information on this volcano, please visit: <http://www.avo.alaska.edu/activity/Redoubt.php>.

Disasters around the World: **New** (Continued)

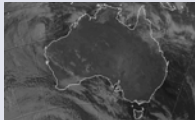


Kepulauan Talaud earthquake

An earthquake with a magnitude of 7.2 struck the Kepulauan Talaud area of Indonesia on February 11th at 12:34 p.m. EST. The area is located 175 miles SSE of the Philippine Island of Mindanao. The quake did

not trigger an ocean-wide tsunami but injured 36 people and destroyed many buildings. For more information, please visit:

<http://earthquake.usgs.gov/eqcenter/recenteqsw/w/Quakes/us2009cybb.php>.



Tropical Cyclone 15P (Innis)

Tropical Cyclone 15P (Innis) is located and dissipating 175 NM WSW of Noumea New Caledonia. With the exception of this storm, there is no significant

tropical activity in the Northwest, Eastern or Central Pacific areas, the Indian Ocean or in the Southern Hemisphere/Western/South Pacific Area. For a summary of these areas, please visit: <http://metocph.nmci.navy.mil/jtwc.php>.

- Medical examiners continue to identify the remains of the victims from wildfires that killed 201 people, destroyed more than 1,800 homes and scorched more than 1,500 square miles of Victoria (Australia) since February 7th. They added that it would likely be several months before the remains could be released for burial. To read the full article, please visit:

<http://www.google.com/hostednews/ap/article/ALeqM5jiUCqDbfvOMqcnOmljSngFNni6iQD96DRR3G0>.



In the last two weeks, FEMA declared several areas in the United States as disaster areas, eligible for assistance in recovery. Oklahoma, Missouri and Arkansas were declared

as disaster areas due the recent severe winter storms along with Tennessee and Kentucky, which also received the designation due to flooding. Oklahoma was additionally declared a disaster area due to the recent severe storms and tornados. For further information and instructions for applying, please visit:

<http://www.fema.gov/news/event.fema?id=11130>

and <http://www.fema.gov/news/event.fema?id=11108>

(Oklahoma), <http://www.fema.gov/news/event.fema?id=11129>.

(Missouri), <http://www.fema.gov/news/event.fema?id=11089>.

(Arkansas), <http://www.fema.gov/news/event.fema?id=11088>

(Kentucky) and <http://www.fema.gov/news/event.fema?id=11128>

(Tennessee).

Education and Training Courses: **Updated**



The Yale New Haven Center for Emergency Preparedness and Disaster Response (YNH-CEPDR) is pleased announce that previews for National Incident Management System (NIMS) courses are available at <http://ynhhs.emergencyeducation.org/>. YNH-CEPDR is committed to ensuring that our courses remain current with applicable federal and accrediting agency requirements. The current course updates meet the requirements outlined in the FEMA February 2008 National Incident Management System (NIMS): Five-Year NIMS Training Plan.

- **EM 108: Emergency Preparedness for Health care with NIMS (New)** Hospitals and many health care organizations are still required to implement the National Incident Management System (NIMS) education and training for appropriate personnel. YNH-CEPDR has developed Emergency Preparedness for Health care Professionals with NIMS (EM 108) as an equivalent IS 700 NIMS course. This course is time-efficient and relevant to public health, hospital and health care workers. The course provides information and action steps all employees can take to ensure a work environment prepared for disasters.
- **EM 141: Role of the Medical / Technical Specialist during an Incident (New)** A course which explores the roles and responsibilities of medical and technical specialists when the ICS has been activated and includes an interactive case study. During a disaster, members of the command or general staff may require additional information about chemical, biological, radiological or nuclear (CBRN) emergencies, information technology or legal issues, which a designated medical or technical specialist can provide.
- **EM 142: Incident Command Systems for Health care with NIMS (New)** This course is designed to help health care leaders understand their role in managing continuous care for patients in the event of an emergency or disaster and to meet the federal requirements for IS 100.HC, An Introduction to Incident Command System and IS 200.HC, Applying Incident Command System to Health care Organizations. EM 142 is designed for all those who may serve in a leadership role in a health care organization during an emergency or disaster

YNH-CEPDR also offers a number of non-NIMS offerings that address important issues in health care preparedness. Such as Special Populations, Protection of the Health care Workforce and compliance with Joint Commission/CMS regulations. These courses may also be previewed at <http://ynhhs.emergencyeducation.org/>. YNH-CEPDR is committed to ensuring that our courses remain timely and current with best practices and cutting-edge content.

- **EM 106: Emergency Preparedness for Health care – At Work and At Home (New)** Emergency preparedness is the responsibility of every health care employee. Whether meeting The Joint Commission, Centers for Medicare and Medicaid Services requirements or ensuring that employees will come to work during a disaster, emergency preparedness training is essential. This awareness-level course will provide the information and action steps all employees can take to ensure a work environment prepared for disasters and is recommended for all hospital and health care employees.
- **EM 120: Best Practices for the Protection of Hospital-Based First Receivers.** Information topics include special threats from specific agents; levels of biological, chemical and radiological protection and isolation; various levels of respiratory protection; principles of decontamination; decontamination procedures; mental health concerns regarding decontamination; and personal safety issues regarding decontamination.
- **EM 121: N95 Respirator and Personal Protective Equipment (PPE) Training for Health care Workers.** Information topics include reasons for respirator and personal protective equipment (PPE) use; proper methods for inspecting, donning and doffing a respirator and PPE; the effective use of a respirator and PPE; and common errors made in respirator and PPE use.
- **EM 122: N95 Respirator Fit Tester Training.** Information topics include identifying the need to conduct the N95 respirator fit test; conducting a fit test for N95 respirator use; and performing proper inspection and disposal of respirators.
- **EM 210: Advanced Radiological Emergency Preparedness for Clinicians (New)** This course is designed for clinicians with an interest in understanding radiation concepts, the medical effects of radiation on biological systems, radiation countermeasures and essential elements for dealing with radiological and nuclear emergencies in the health care environment.
- **EM 220: Best Practices for the Protection of Hospital-Based First Receivers, Operations Level** Information topics include preparation for health care workers, such as emergency department clerks and clinicians who are assigned to work in the contaminant-free areas but who may need to identify possible risks associated with unannounced patients; preparation for health care workers with designated roles for contaminant removal or who will be working in areas that are considered to be contaminated (training includes proper use of protective equipment); and preparation for hazardous materials specialists, including radiation safety officers.

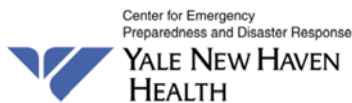
Education and Training Courses: Updated (Continued)

EM 250: Small Victims, Big Challenges: Pediatric Triage, Treatment and Recovery for Emergencies (New) A course which introduces clinicians acting as first receivers to the unique challenges encountered with children in a disaster. Children represent a special subset of individuals at-risk as they have unique physiological and pharmacological considerations. The federal Pandemic and All-Hazards Preparedness Act (PAHPA) encourages the Department of Health and Human Services to promote appropriate pre-disaster activities at the state and local levels to address the medical health needs of children.

EM 260: Geriatric Preparedness, Triage and Treatment in Disasters (New) A course that introduces clinicians acting as first receivers to the unique challenges encountered with the elderly in a disaster. Senior citizens represent a special subset of individuals at-risk as they have unique physiological and pharmacological considerations. The federal Pandemic and All-Hazards Preparedness Act (PAHPA) encourages the Department of Health and Human Services to promote appropriate pre-disaster activities at the state and local levels to address the medical health needs of the elderly.

For more information on any of our courses or to develop a customized course for your specific needs, please contact us at (203) 688-3224 or center@ynhh.org.

Programs and Services



YNH-CEPDR is committed to developing and delivering effective and scaleable services that advance health care planning, preparedness and response for emergencies and disasters. YNH-CEPDR offers the following services to hospitals, other health care delivery organizations, emergency management professionals, the business community and others.

- **ASSESSMENTS:** Hazard Vulnerability Analysis, Business Impact Analysis and Gap Analysis
- **PLANNING:** Emergency management plans, emergency operations plans and business continuity plans
- **EDUCATION and TRAINING:** Course development and course delivery in various modalities (including web-based)
- **DRILLS and EXERCISES:** Design, development, facilitation and evaluation

For additional information about these services, please contact us at (203) 688-3224 or center@ynhh.org, or visit our web site at <http://www.yalenevnewhavenhealth.org/emergency/index.html>.

Upcoming Training and Education

DATE	TIME	EVENT	LOCATION
3.1.09 to 3.4.09	See Web Site	2009 FAH Public Policy Conference and Business Exposition <i>Sponsored by the Federation of American Hospitals</i>	Marriott Wardman Park Hotel 2660 Woodley Road, N.W. Washington, D.C. 20008 Please register at http://www.fah.org/fahCMS/Documents/Annual%20Meeting/FAH%20Annual%20Conference%20and%20Expo/09_FAH_Conf_Promo3.pdf
3.4.09	8:00 am-5:00pm	Basic Disaster Life Support (BDLS) <i>Sponsored by Baystate Health Continuing Education</i>	Baystate Health Continuing Education 361 Whitney Ave, Holyoke, MA Please register at www.baystatehealth.com/learn
3.5.09 to 3.6.09	8:00 am-5:00pm	Advanced Disaster Life Support (ADLS) <i>Sponsored by Baystate Health Continuing Education</i>	Baystate Health Continuing Education 361 Whitney Ave, Holyoke, MA Please register at www.baystatehealth.com/learn
3.11.09	8:30 am-4:00pm	Special Needs Shelter Planning Basics: How to Leverage Existing Capabilities and Resources to Care for the Medically Fragile Shelter Population <i>Sponsored by Homeland Defense Journal Training Workshops</i>	Homeland Defense Journal Training (Jefferson Plaza Building) 421 Jefferson Davis Highway (7th floor), Arlington, VA. Please register at http://www.regonline.com/Checkin.asp?EventId=683990
3.26.09	12:00 pm-1:30pm	Alternate Standards of Care in Disasters <i>Sponsored by the Alabama Department of Public Health</i>	Satellite Broadcast Please check http://www.adph.org/ALPHTN/index.asp?id=1884 for upcoming details

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Preparedness Report Archive: http://www.yalenewhavenhealth.org/emergency/commu/archives.html			
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