

Disclosures

Bisni Narayanan has no real or potential conflicts of interest or financial disclosures related to the subject matter in this presentation.

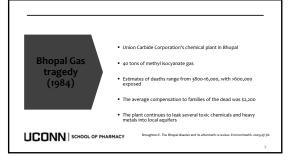
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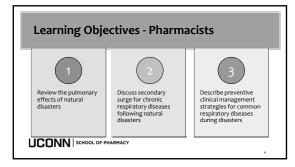
Pharmacist uses anownoble to deliver medications

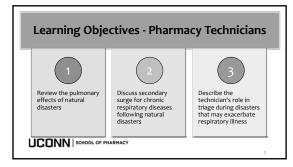
Pharmacist Andrea Cusack delivering medications

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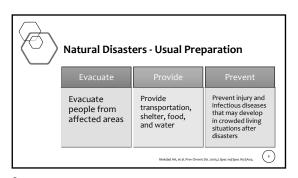






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Disaster conditions exacerbate chronic illnesses
 Lack of access to routine health care is a leading cause of mortality after disasters
 Problems of vulnerable populations with chronic illness are inadequately addressed

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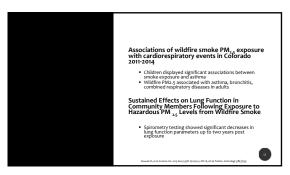
Great East Japan Earthquake in 2011

Hospital visits for patients receiving oxygen therapy

Significant increase in hospitalizations due to COPD exacerbations in the subacute phase (from the third to the fifth week)

Increase in admissions for pneumonia and exacerbation of COPD in the elderly

Vanuado 6, et al. BM/Open. 2019/G/1909 and Company in the all and in the subacute of a substitution of COPD in the elderly



Adverse Health Outcomes after Hurricane Katrina among Children and Adolescents with Chronic Conditions

• During the first three months post hurricane, of 102 children who reported having astmma, 80 (76.44.2) reported that they required more astima medication

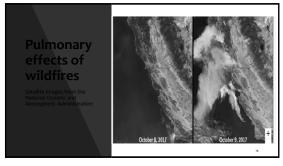
• Of these, 30 (59.55) sported that their asthma had worsened since September 2005

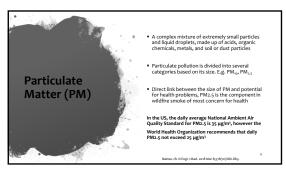
Chronic Disease and Related Conditions at Emergency Treatment Facilities in the New Orleans are after Hurricane Katrina

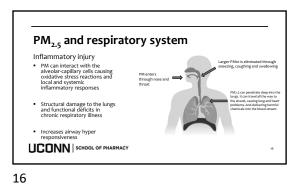
• Of 10,52 health care visits, about 122 was for chronic lower-repiratory disease, 7.21 for medication refills, and 5.72 for routine or follow-up care

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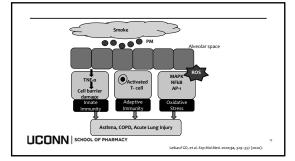
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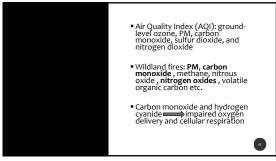


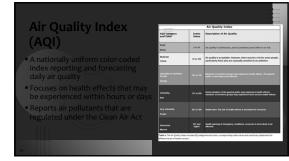




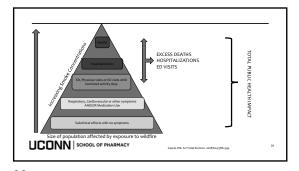
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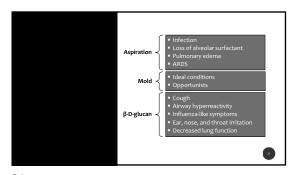






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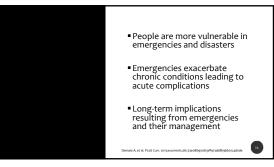


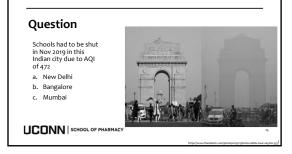


Headaches
Runny nose
Sore throat or hoarseness
Cough, chest tightness, shortness of breath, wheezing
Skin and mucous membrane irritation
Severe fatigue and exhaustion
Nausea and GI problems
Flu-like symptoms
Joint and muscle aches
Cognitive dysfunction
Unusual nosebleeds and coughing up of blood (rare)

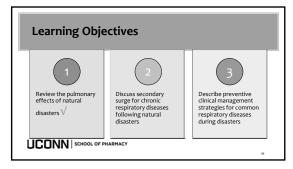
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Organ system	Clinical Effect	Exposure/Agents
Upper airway, nose, sinuses, throat	Rhinitis, Sinusitis, Laryngitis	Fungi, allergens, irritants, PM
Lower airway, lung with bronchial system, alveoli	Bronchitis, Asthma, Allergic bronchopulmonary aspergillosis, toxic alveolitis, pneumonitis	Fungi, allergens, fungal byproducts, fine particles
Combined upper and lower airway	Aspergillosis, fungal rhino-sinusitis	Fungi, allergens, fine particles
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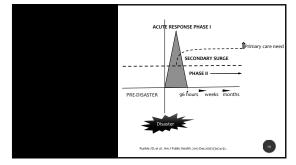


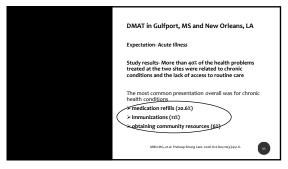
The Agency for Healthcare Research and Quality (AHRQ) defines surge capacity as a 'health care system's ability to expand quickly beyond normal services to meet an increased demand for medical care in the event of bioterrorism or other large-scale public health emergencies'

Hospital bed capacity
Medical equipment and supplies
Population to provider ratios
Personnel availability
Prescription medication refills
Portable triage and decontamination centers
The ability to legally delivery health services under situations that exceed authorized capacity

Bushle JO, or d. J. Ann. J. Public, Insulin. 2012 Decy. 2012 (2) 014-92.

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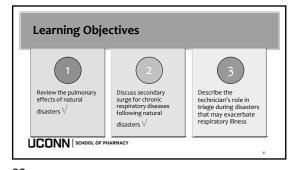
Which of the following is a benchmark for surge capacity?

A. Immunization availability

B. Prescription medication refills

C. Ability to close schools quickly

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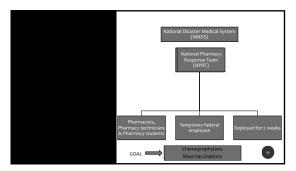


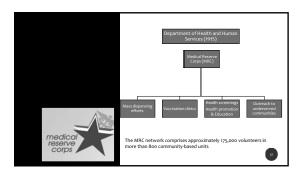


We often hear about doctors and nurses in disaster management
 Where are our pharmacists and pharmacy technicians?
 >DRUGS, VACCINATIONS, COUNSELING

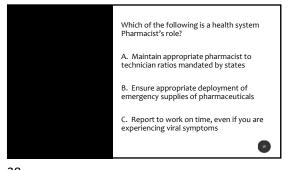
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Utilization of skills, knowledge and expertise is warranted!

• Medication history

• Triage patients

• Vaccinate in some states

• Restock carts

• First receivers in a community setting

• Volunteer in MRC or other organizations

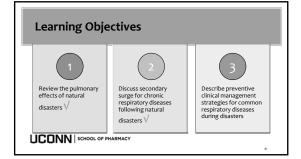
Which of the following is a Technician's role?

A. Take medication histories and triage patients to streamline care

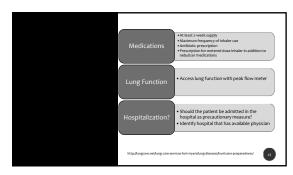
B. Report to work on time, even if you are experiencing cough and fever

C. Assume responsibilities usually only allowed for pharmacists

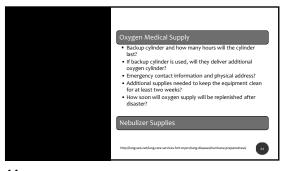
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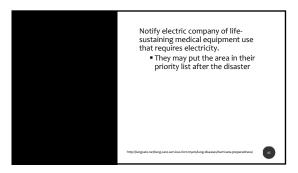






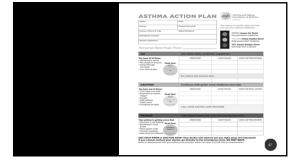
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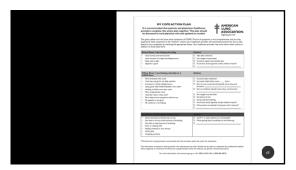


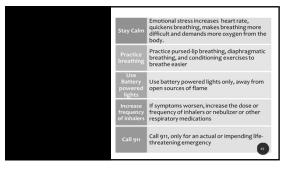




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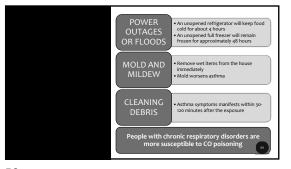






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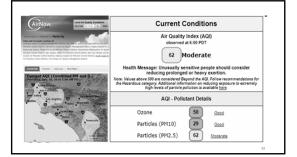


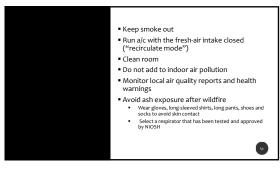


Where to find Air Quality Reports

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Question

The expert panel of key opinion leaders within the field of disaster health recommended pharmacists could undertake ----number of roles in a disaster

- a. 13
- b. 23 c. 43
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Watson KE, et al. PLoS One. 2019 Dec 26;14(12):e022713

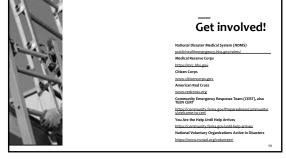
■ Check for open pharmacies https://rxopen.org Receive care at community health centers https://www.directrellef.org Free prescription drugs and medical supplies for low-income individuals at community health centers of clinics Contact Medicare Medicare-insured patients contact the plan to determine the closest network pharmacy that is open.
 If none are open, Medicare will be able to connect patients with another pharmacy ■ Insurance overrides "Refill Too Soon" Edit Override to allow for 30-day supply of medications State boards may authorize Emergency Dispensing of Prescription Medications

Must be activated by the federal

Only for uninsured patients

- Provides 30-day coverage for prescription medications and DME to those in federally-identified disaster areas
- 72,000 pharmacies enrolled
- Covers vaccines

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