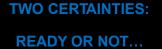


🥑 @syramadad

Syra S. Madad, DHSc, MS, MCP

Fellow, Harvard Kennedy School Belfer Center for Science and International Affairs Senior Director, System-wide Special Pathogens Program, NYC Health + Hospitals Principal Investigator, Institute for Diseases and Disaster Management



Incidents will Occur

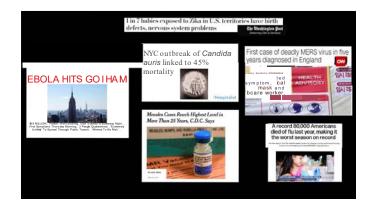
3

Patients will Present

.

Hope Is Not A Plan

s





HOW EBOLA CHANGED THE LANDSCAPE

- 2014 EVD patient at a Dallas community hospital in Dallas
 Transmission to 2 HCWs
- Entirely novel situation in which virtually no U.S. hospital had ever trained for.
 No healthcare workers had PPE competencies in 2014
- Hospital across the country enhanced HCID preparedness
- Required increased coordination between organizational elements
 ED, Infection Control, Lab, Transport, public affairs, etc.



RESPTC NETWORK

- Frontline Hospitals (4,845)
- Assessment Hospitals (217)
- Ebola Treatment Centers (63)
- Regional Ebola & Other Special Pathogens Treatment Center (10)

0)	01	01
		Electronic Context
C. States	And	
100100 3 0		
Al of the bit	oughting will be proported by the De-	Notice of the second se

MAINTAINING READINESS FOR INFECTIOUS DISEASE THREATS





THE REALITY

On December 27th 2019, Ron Klain, former US Ebola Czar & Syra Madad published an op-ed in the Washington Post.

The piece warned lawmakers that this vital program is set to expire in May of 2020, urging Congress to renew funding for the system that helps keep Americans safe from a sudden epidemic. "Failure to act would be penny-wise but pound-foolish," it read. "The day will come when a dangerous pathogen will arrive in the United States once again."

On December 31st, four days after the article was published, the governme in Wuhan, China, reported to the World Health Organization that it was treating dozens of patients for a novel virus of unknown origin.

Opinions Extern

ent

Opinion: A program protecting us from deadly pandemic is about to expire



ninetiae 27, 3010

Ronald A. Klain usus the White House Ebola response coordinator in 2014-2015 and is an advisor in Joe Bleford vizono presidential campaign. Syra Madad is the senior director for the System-usile Special Pethogone Program for New York City Health + Hospitals.



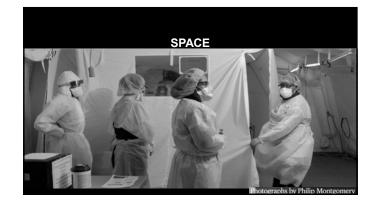
5

HOW COVID-19 CHANGED THE LANDSCAPE

- All 6,000+ U.S. hospitals became frontline, assessment and treatment centers
- Significant impacts to:
 - Supplies
 Space
 - Staffing
 - System
- And Lessons Learned













6

	CONVENTIONAL	CONTINGENCY	CRISIS
	Triggenzi - No operational/Altities holiums, haaad noised, or minictoa disease care(c) might holi standard of care Protocol disease holiad institutional case(c) or might holia pressult case(c) or might holia pressult hospital operations.	Triggers: • Original Statistics Status, hasned incourse, of motion statistics and statistics. • Original Statistics and statistics and statistics and statistics and statistics and statistics and statistics. • Original Statistics and statistics	Triggers: • Open stored vicinities failures, hasteril included, an epidemiciacy devices hasteril failured of the stored of the stored of the stored of the the stored of the stored of the stored of the stored control when infection disease-related instantianation asseed institutional case of the instantianation asseed institutional case of the institution asseed institution asseed institutional case of the institution asseed institution asseed institutional case of the institution asseed institution asseed institution asseed institution asseed institution institution asseed institution asseed instit
MBIEVE	Action tensor - Rection tradition duration of use - Rections requires activities of use watering clockers and - Rection activities activities and - Rection activities activities and - Rectional activities activities and - Rectional activities activities activities - Develope the second social rection activities - Develope the second rection	Arthonese: Anticipation standards face/and of Jane Anticipation standards face/and of Jane Anticipation standards face/and of Jane Desemption of Anticipation Standards Desemption (Anticipation Standards Desemption (Anticipa	Action term: • Invasional sensitivity of activity gener the transformation of the sensitivity of the sensitivity in the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitivity of the sensitity of the se

CHANGE THE WAY WE PREPARE: JUST-IN-TIME VERSUS JUST-IN-CASE PANDEMIC PREPAREDNESS

- This just-in-time approach goes beyond PPE manufacturing: It is the *de facto* pandemic preparedness strategy employed by hospitals and health care systems as well as states and the federal government.
- The just-in-case strategy is familiar to the US government, which invests billions of dollars per year in military defense and weapons stockpiles and updates to counter-intelligence technologies—just in case.



Building a Biopreparedness Program for Healthcare Sites



OVERALL PLANNING CONSIDERATIONS

Overall Planning Considerations

- Overall Planning Considerations:

 • Risk/vole

 • Risk vole

 • Risk vole

 • Patient demographics

 • Patient demographics

 • Arraine populations

 • Reservers type and amount based on risk

 • Baservers type and amount based on risk

 • Supplies (e.g., registre antice conset, dofting/doming space)

 • Space (e.g., negative antice conset, dofting/doming space)

 • Space (e.g., negative antice conset, dofting/doming space)

 • Patients (e.g., negative antice conset, dofting/doming space)

 • Patients (e.g., negative antice conset, dofting/doming, space)

 • Patients (e.g., negative antice conset, dofting/doming, space)

 • Patient document inputer utrits, patie rescut [218] Integration, laboratory, policies, training systems)

 • Preside antice is a substrate who should be involved in the planning?

 • Patient document inputer utrits, patie rescut [218] Integration, laboratory, management, infoction control and prevention, interfection dosus, relevant inputer utrits, patie result control, rescut (CAR), tervers, heat laives, patie controlm-inanterance, and result actives, patie control

EMERGENCY MANAGEMENT CONSIDERATIONS

OPERATIONAL CONSIDERATIONS

- Operational Considerations

 • Points of entry into healthcare delivery system --screening for potential special pathogen cases at each entry and process for transfer to emergency department (or direct via EMS to a different facility for assessment)

 • Nurse limit trage line phone call

 • Web-based encounter/feedmedicine

 • Emergency department

 • Walk- enclosizynet cauwrtre-standing emergency department

 • Ambulatory care center

 • Ambulatory care center

 • Arrival to EMS

 • Arrival to EMS

 • Care team/staffing model

 • Sill in and selection of personnel special pathogens "team" or all personnel trained equally

 • Bales and responsibilities - ba, environmental services, use of traines care 247

 • Signing model hours, rotations, process must be able to initiate care 247

 • Signing model nours, rotations, process must be able with and being genetic)

 • Valubor/family management

 • Language, religious, and cultural issues that may complicate patient care

INFECTION CONTROL CONSIDERATIONS

 scher Caretad Canciderations
 experiment
 Biomorphile the regardle biology of Hardine VEP profession of publishings
 Hardine VEP profession of publishings
 Hardine VEP profession of PPPC, from, and diversestile tray for powerful:
 Departs to diverse for participation of PPPC, from, and diversestile tray for powerful
 Departs to diverse for the public diversestile tray for powerful
 Departs to diverse for the public diversestile tray for powerful
 Departs to diverse for the public diversestile tray for the powerful
 Departs to diverse for the public diversestile tray for the powerful
 Departs to diverse for the public diversestile tray for the public diverse tray for the public diversestile t

PATIENT CARE CONSIDERATIONS Ambulatory Non-ambulatory Critically II - Special considerations - A -Frick and patients with functional needs - Program - Program - Relative - Relative - Contrain - Delinoval conservational multiple issues including cooperation with caregive - Delinoval conservational on annihil - Stanciner socialization - who accuring and tow are services - Stanciners - Relation- - who accuring and tow are services - Instances scoratory Sérvices - Specimen acquisition – who acquires and how are samples managed? - Dagoostic testing – what will be performed and where? – list of general and sy compliance with protocols and screwidures for service. una service provide an procedures for second generatives for confirmatory testing packaging, transport, strange provide to tanaport, transport, toro ta panyot, transport, toro ta panyot, transport, toro ta panyot, transport, padd until test results gory A waste management – VHP and other intectional subtances capable of causin treatming of tabil lines in exposed human or animale! Category B waste management – other infectious substances that do not meet specimens for MERS-CoV are handled as Category B infectious substances but ;

HEALTHCARE WORKER CONSIDERATIONS

Healthcare Worker Safety Considerations

ver (a a central line a

- Countermeasures (e.g., vaccination, prophylaxis)
 PPE
 Training (e.g., agent information, patient screening and care processes, drills, exercises, just-in-time
- resources) Healthcare worker monitoring

GUIDANCE'S, PROCESSES, PROTOCOLS

- Once policies, procedures, staff and patient resources are developed and instituted, test your plan, observe the outcomes, analyze the results, provide feedback, and adapt as needed
 - Secret shopper drill
 - Table top exercise
 - Full scale interagency exercise
- Gather your planning team, establish a scenario, determine the data to be collected
- Include regional and coalition partners

Coronavieus Disease 2019 (COVII Iospital Preparedness Assessme		≩ ≊
ECC: Associate deviation present for the preside prior of inter(2000 + 0.00 longebr) deviat bound that off per man	attents with Concession all fractioned and most	Deser a.d
Research the general of experiments of devices in the device (COR) is the evolution interface and an additional and the CORO is an experiment of the device of the device of the device of the evolution of the device of the device of the device of the corollar sectoristics. The device of the device of the sector research sector of the device of the device of the sector devices and the devices of the device of the sector. The device of the devices of the device of the sector of the devices of the devices of the device of the device of the device the device of the devices of the device o	and Marin Stevensor And COVER 1976, part of	
namentra (1920-19 1a falosota finatizo dan baharata ianaktiko manteri Afades mantari ana farina ata kurana ina peranakti		a CDHD NA
namentra (1920-19 1a falosota finatizo dan baharata ianaktiko manteri Afades mantari ana farina ata kurana ina peranakti		ine n
namenter 2000 H Ny fahan'ny fanitra dan ta' diserte tanàn'ny mpikam- ipitaka mpikamana faritanjaka ta' many a pepadata aktiva	rti i sedeti ote N pieti i sede	COND IN
energie 2000 et le dénergi factor la de la factor instation esparar apple seguine de la factoria de la general apple de la factoria de la factoria de la factoria de la factoria de la factoria de la factoria de la factoria de la factoria de la fac	nte a handari, situe ha anterio anterio francesco atta	



DATA COLLECTION TOOL

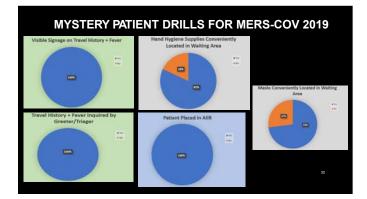
- Drill Time Stamps
- Patient Experience
- Disease-specific Checklist
- Staff Proficiency on "x" Disease

1 mouth for	-	faits Print	*		•	-	•	
7 Reption		_		-	-		_	
hannes and here and h			<u> </u>	1	-	_	-	
		speciero	6 4					
	Sen.	No 51		Carr				
							-	
CerteCoverse makes and antennet of grants and growts patient A		Staff P	-	-		_		
Carly Greener's C target	lere .				17	. Dam		
Oleh/Gester struktur 6. approxitate preting () strang()			調		•			
Chefe/Genetier pro-other pf								
At every transition, patient informed (no SOB and not Access class					1			_
At every transition, pater?			100	echilet	Į.			n
At every transition, pater?			DBur	ecklist	-		_	h
At every transition, patient enterroot (via 0/08 and vide Access class	an deaco		000	ecklist	-			
Ar every transition patient interest (in COS) and coll Type 1 Typesgri ¹ tables at any 2 Carlo Costeen Trage sales plead 1 Type Costeen Trage sales plead 1 Type Costeen Trage sales plead	Ves		064	eckSut	Gam	ente:		
Ar order transition particular second to GOB and and The GOB and and and and and and and the GOB and and and and and and and and the GOB and and and and and and and and and and and and and and and and and and	Yes	No	Other	eckSut	-	ente		
A cody tambén pater A cody ta	Ves		064	eck/fut				
An energy transform particle control of the COSE of the COSE of the COSE of the COSE of the COSE of th	Ves		064	ecklist				

ndix B: Data C

toT	boll	- 1











A CONTAGION OF MISINFORMATION



It's not just an outbreak of the contagion, but also an epidemic of misinformation

