# A Staffing Matrix

# For Support of

## Alternate Care Sites

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### Clinical Questions

What training is needed for staffing of an alternate care site?

Where is that training available?

What is the best way to provide that training?

How can individual training be tracked and retrieved for assignments as needed?



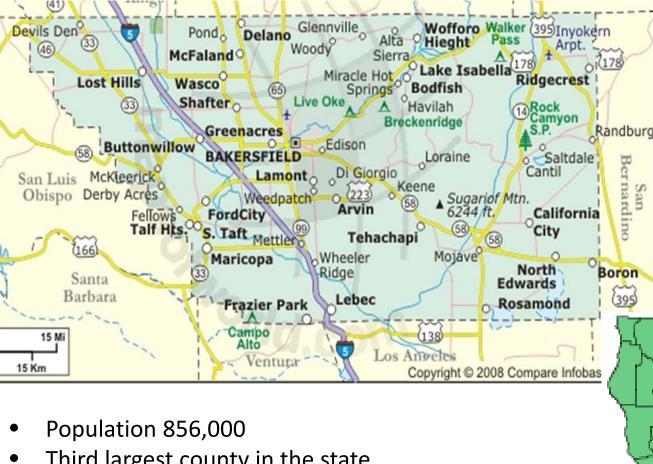
#### Alternate Care Sites

- A location typically not intended for provision of medical services that can be quickly converted to enable provision of care after a declared emergency (CDPH, 2008)
  - Designated by local government
  - Not an extension of an existing healthcare facility
  - Capable of housing multiple individuals
  - Meeting basic requirements for health and safety
  - Utah application during H1N1 outbreak in 2009



### Setting: Kern County, CA

- Risks
  - Earthquakes
  - The Zombie Apocalypse
  - Environmental emergencies/ toxic chemical spills
  - Dam breach Lake Isabella
  - Drought
- 1,500 hospital beds / 10 hospitals
- To care for one percent of its population in 50-bed alternate care sites
   Kern County would need over 150 sites



- Third largest county in the state (8,000 square miles)
- Almost half (41.6%) speak a language other than English
- 22 percent of persons in Kern
   County live below the poverty level

(United States Census Bureau, 2014; Cubit Planning, 2014). Images from: <a href="http://www.mappery.com/maps/Kern-County-Map.jpg">www.californiavisitorsnetwork.net/kern</a> <a href="http://www.mappery.com/maps/Kern-County-Map.jpg">http://www.mappery.com/maps/Kern-County-Map.jpg</a>



#### **Spread of the Living Dead**

Based on a model developed by Cornell researchers, areas close to multiple major cities would bear the brunt of a fictional zombie outbreak while more isolated spots would be less affected.



#### Problem Statement

2 contracted ACSs in Kern County but...

Lack of guidance for training of staff to support medical personnel needed for activation and

operation of an alternate

care site (ACS).



### Research Question

What training should be completed by the staff of the new ACS partner organization?

- What positions?
- What duties?
- What training?



#### Literature Review

- Governmental guidance
  - Federal
    - CPG 101
    - National Preparedness Framework
  - State
    - Definitions
    - Tool templates
  - State code
    - Protections for ACS partners / activation participants
  - Manuals developed in other areas
    - Yolo County
    - Kern County prior efforts
    - Santa Clara County
  - Related articles based on evidence and best practices

### Project Definition

- Base on requests and input from ACS partners in Kern County
- Define ACS staffing needs
  - Using widely-recognized definitions
  - Incorporating an organizational chart
  - Indicative of how the ACS would work when operational
- Determine training needs for each position.
  - Easily-accessible
  - cost-effective
  - widely available in varying formats
  - Setting targets and goals for acquisition of training
- Consolidate into a single tool
  - flexible and customizable
  - individual training tracking
  - Individual contact information
  - Based on a framework supportive of CQI
- For support of medical personnel during emergency/disaster activation of ACSs.

### Project Development

- Define job positions needed
- Define job duties
- Determine training needed
- Provide a method of tracking training
- Include assumptions and directions for use
- Include brief instructions for navigation
- Combine into a single document
- Review by SMEs



#### Theoretical Considerations

- Complexity theory
  - **Small changes** produce large effects
  - Perception of the whole rather than solely through examination of its parts (relationship to nursing theory)
  - Lack of single-agent perception of the entire organism
  - Ability to share information rapidly
  - The butterfly effect
  - "simple agents follow simple rules" (Paley, 2007)
  - Tendency toward self-organization
  - Co-evolution in cyclic fashion (continuous quality improvement cycles)



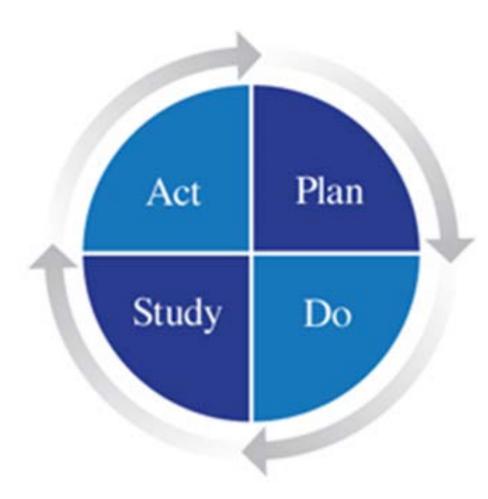
### Framework



National Preparedness Framework:

"a continuous cycle of planning, organizing, training, equipping, exercising, evaluating, and taking corrective action in an effort to ensure effective coordination during incident response" (FEMA).

#### Framework



Similarity of FEMA cycles to PDSA

- based on the lectures of Shewhart
- applied by Deming (Stratton, 1994)
- CQI based on identifying a need, creating a plan, performing a study, evaluating results





### Matrix Development

- Job Positions
  - HICS training / new version release (May/June 2014)
    - Organizational structure
    - Job position definitions
    - Job descriptions





### Matrix Development

- Training
  - FEMA



- California Office of Emergency Services (Cal OES)
- FEMA Center for Domestic Preparedness in Anniston, Alabama
- Medical Reserve Corps TRAIN







#### Subject Matter Expert Review

- -Eliminate duplicate courses
  - unchanged to maximize training options.
- Courses grouped by subject matter.
- Number of mandated courses reduced.

### Assumptions

- ACS activation based on need to relieve surge at area hospitals.
- Conditions presented by the emergency prohibit safe discharge of patients who normally would be discharged to home or other community settings.
- These low-acuity patients could be cared for safely by a limited number of medical personnel until arrangements could be made for safe discharge to a community setting.

## Additional Development Considerations

- Effectiveness comparing trained versus untrained individuals
- Disaster simulation exercise
- · Access® development for selection of individuals for job positions based on training completed.



#### Matrix Revelations

- Importance/versatility of Hospital Incident
   Command System
- Lack of previous guidance for training to support ACS operations

Importance of support for medical personnel in ACS operations

 Significance of training as support of an "all-hazards" approach to emergency management

#### Matrix Reloaded

Lead from where you are



- Mixing the old and the new
  - Use of existing formats in combination to provide structure and functional support in a new framework
  - Still a lot of work!
  - Consolidation of formats into (more) useful tools



### Assumptions

- ACS activation based on need to relieve surge at area hospitals.
- Conditions presented by the emergency prohibit safe discharge of patients who normally would be discharged to home or other community settings.
- These low-acuity patients could be cared for safely by a limited number of medical personnel until arrangements could be made for safe discharge to a community setting.

	А	В	С	D	E	F	G
1	Command Staff			HICS job positions for ACS			
					D. H.P. L. C.		
2				Incident Commander	Public Information Officer (PIO)	Liaison Officer	Safety Officer
				incluent commander	Officer (PIO)	LIdiSUII UTIICEI	Salety Officer
3	Training Module #	Training Module Title	Module Location				
4	<u>-</u>						
		California Health Alert Network					
5		·	Contact LHD EP	М	M	M	M
		California Emergency Operations					
6 7		· · · · · · · · · · · · · · · · · · ·	Contact LHD EP	M	M	M	M
7	IS 100.b	Intro to ICS	FEMA ISP	M	M	M	M
8	IS 100.HCb	Intro to ICS for Healthcare/Hospitals	FFMA ISP	M	M	M	M
	10 20011100	5 to 155 for frediction cyrrospituis		101	***	.**	
			contact local				
			health department				
			Emergency				
9			preparedness	М	M	M	M
		Emergency Preparedness Training for					
10		•	Albany	R			R
		ICS for Single Resources and Initial				_	
11			FEMA ISP	M	M	M	M
42		Applying ICS to Healthcare	EENAA ICD				
12	IS-200.HCa	Organizations	FEMA ISP	M	M	M	M

	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0
1			HICS Job Positions	for ICS - O	perations	Section									
2		HICS job positions for the ACS		Operations Chief	Staging Manager	personnel Staging Team Leader	Vehicle Staging Team Leader	Equipment /Supply Staging Team Leader	Medication Staging Team Leader	Medical Care Branch Director	Inpatient Unit Leader	Behavioral Health Unit Leader	Clinical Support Unit Leader	patient Registration Unit Leader	Infrastructure Branch Director
	Training	Total And Later	sand to to out to												
3	Module #	Training Module Title	Module Location												
4		California Health Alert Network													
5		(CAHAN) Alerting Level	Contact LHD EP	М	R	R	R	R	R	M	R	R	R	R	М
3		California Emergency Operations	CONTACT LAD EL	IVI	, n	n	, n	n	, n	IVI	n	ı,	IV.	n.	IVI
6		Manual (EOM) / MHOAC Training	Contact LHD EP	М	R	R	R	R	R	R	R	R	R	R	R
7	IS 100.b	Intro to ICS	FEMA ISP	M	M	M	M	M	M	M	M	M	M	M	M
$\vdash$					.**		.,,							.,,	
8	IS 100.HCb	Intro to ICS for Healthcare/Hospitals	FEMA ISP	М	R	R	R	R	R	R	R	R	R	R	R
		ICS for Single Resources and Initial													
9	IS 200.b	Action Incidents	FEMA ISP	М	М	М	М	М	М	М	М	М	М	М	М
		Applying ICS to Healthcare													
10	IS-200.HCa	Organizations	FEMA ISP	М	R	R	R	R	R	R	R	R	R	R	R
		lucs	contact local health department Emergency												
11	10 700	HICS	preparedness	M	M	M	M	M	M	M	M	M	M	M	M
12	IS-700.a	NIMS: An Introduction	FEMA ISP	M	М	M	M	M	M	M	M	M	М	М	М
12	1C 000 F	National Response Framework: An	EENAA ICD	D											
13	IS-800.b	Introduction	FEMA ISP	R											
1.1	ICS 300	Intermediate ICS for Expanding Incidents	CalOES	NA.	D	М	D	M	D	M	D	D	D	D	D
14 15	ICS 300	Advanced ICS	CalOES	M M	R R	R	R R	R R	R	M	R R	R R	R R	R R	R R
13	103 400	Forms Used for Incident Action Plan	CalULS	IVI		n	n n	n		IVI	n	ı,	ı,	n.	N
16	IS-201	Development	FEMA ISP	М	R	R	R	M	R	M	R	R	М	М	М

IS-403	Introduction to Individual Assistance	FEMA ISP	R	R				М	М				M
	Overview of Mass Care/Emergency												
IS-405	Assistance	FEMA ISP	R	M	F	F	М	М	М	F	F	М	M
	Special Medical Needs Shelters	Albany	R	R	R	R	R	R	R	R	R	R	R
	ESF#8: Public Health & Medical												
<b>IS-808</b>	Services	FEMA ISP	R	R	R	R	R	R	R	R	R	R	F
	National Disaster Recovery												
IS-2900	Framework Overview	FEMA ISP	R	R	R	R	R	R	R	R	R	R	F
IS-551	Devolution Planning	FEMA ISP	М	М	М	М	М	М	М	М	М	М	١
1029725	ABCs of Pandemic Influenza	MRC Train	R	R	R	R	R	R	R	R	R	R	F
	How Do Viral Epidemics Emerge?	CDC Train	R	R	R	R	R	R	М	R	R	R	F
	Emerging Infectious Diseases	CDC Train	R	R	R	R	R	R	R	R	R	R	F
	An Introduction to Infectious												
	Diseases	CDC Train	R	R	R	R	М	R	М	R	R	R	F
Р3	Pandemic Planning and Preparedness	CDP	R	R	R	R	R	R	R	R	R	R	R
	Preparedness & Community												
	Response to Pandemics	Albany	R	R	R	R	R	R	R	R	R	R	F
	Emergency Preparedness Training for												
	Hospital Clinicians	Albany	R	R	R	R	R	R	R	R	R	R	F
1037542	Basic Epidemiology	MRC Train	R	R		R	М	R	М	R	R	М	N
1042281	Isolation and Quarantine	MRC Train	М	М	М	R	М	М	М			М	N
	Detecting Bioterror (Forensic												
	Epidemiology)	Albany	R	R	R	R	М	R	М	R	R	М	ı
	Recognition & Management of												
1030369	Bioterrorist Agents: An Overview	MRC Train	М	М			R	R	М			М	

	HICS job positions for ACS Planning Staff		Planning Section Chief	Resources Unit Leader	Personnel Tracking Manal	Materiel Tracking Manage	Situation Unit Leader	Patient Tracking Manager	Bed Tracking Manager	Documentation Unit Lead	Demobilization Unit Lead
Training		Module									
Module #	Training Module Title	Location									
	California Health Alert Network (CAHAN)	Contact LHD									
	Alerting Level	EP	R	R	R	R	R	R	R	R	R
	California Emergency Operations Manual	Contact LHD									
	(EOM) / MHOAC Training	EP	R	R	R	R	R	R	R	R	R
IS 100.b	Intro to ICS	FEMA ISP	M	M	M	М	M	M	М	М	М
IS 100.HCb	Intro to ICS for Healthcare/Hospitals	FEMA ISP	M	M	M	М	M	M	М	М	M
	HICS	contact local health department Emergency preparedness	M	M	M	M	M	M	М	M	M
	ICS for Single Resources and Initial Action										
IS 200.b	Incidents	FEMA ISP	M	M	M	М	M	M	М	М	М
IS-200.HCa	Applying ICS to Healthcare Organizations	FEMA ISP	М	М	M	M	M	М	М	M	М
IS-700.a	NIMS: An Introduction	FEMA ISP	M	М	M	М	М	M	М	М	М
	National Response Framework: An										
IS-800.b	Introduction	FEMA ISP	R	R	R	R	R	R	R	R	R
ICS 300 ICS 400	Intermediate ICS for Expanding Incidents Advanced ICS	CalOES CalOES	M M	R R	R R	R R	M R	R R	R R	M M	M M
	Forms Used for Incident Action Plan										
IS-201	Development	FEMA ISP	М	М	М	М	М	М	М	М	М
IS-235.b	Emergency Planning	FEMA ISP	М	R	R	R	R	R	R	R	R
IS-551	Devolution Planning	FEMA ISP	М	M	М	М	R	M	М		М

НІ	CS job positions for ACS Finance Sect	Finance / Administration Section Chief	Time Unit Leader	procurement Unit Leader	Compensation / Claims	Cost Unit Leader	
Training							
Module #	Training Module Title	Module Location					
	California Health Alert Network						
	(CAHAN) Alerting Level	Contact LHD EP	R	R	R	R	R
	California Emergency Operations						
	Manual (EOM) / MHOAC Training	Contact LHD EP	R	R	R	R	R
IS 100.b	Intro to ICS	FEMA ISP	M	M	M	M	M
IS 100.HCb	Intro to ICS for Healthcare/Hospitals	FEMA ISP	M	R	R	R	R
	ICS for Single Resources and Initial						
IS 200.b	Action Incidents	FEMA ISP	M	M	M	M	M
	Applying ICS to Healthcare						
	Organizations	FFMA ISP	R	R	R	R	R

Individual Trainin	g Tracker for ACS Staff Training Matrix	Please Print
Name		
Current Job Positi	on	
Work Phone		
Work e-mail		
Mailing Address S	treet	
Mailing Address C	ity, Zip (auto-fill)	
Emergency Contac	ct	
Preferred phone of	contact #	
Text? Y/N		
Preferred e-mail o	contact	
<b>Credentials</b> (cre	edential, expiration date, issuer):	

Training Module #	Training Module Title	
	_	
	California Health Alert Network (CAHAN)	
	Alerting Level	
	California Emergency Operations Manual (EOM)  / MHOAC Training	
IS-27	Orientation to FEMA Logistics	
IS-29	PIO Awareness	
IS 33.14	Initial Ethics Orientation	
IS-35.14	FEMA Safety Orientation 2014	
IS-36	Multihazard Planning for Childcare	
IS-37	Managerial Safety & Health	
IS-42	Social Media in Emergency Management	
IS 100.b	Intro to ICS	