



## When Disaster Strikes: 2015 Butte and Valley Wildfires

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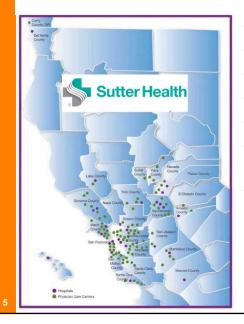
# When Disaster Strikes: 2015 Butte & Valley Wildfires

CHA Disaster Planning for California Hospitals Conference September 21, 2016

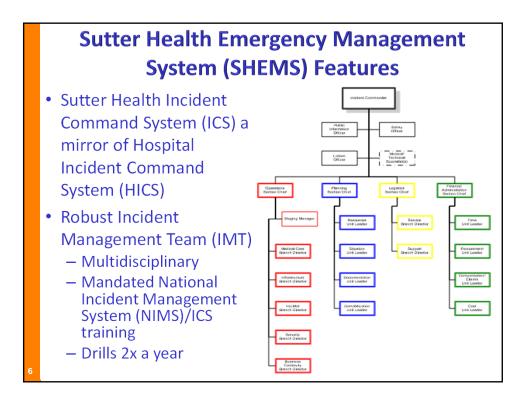


# Partnering in Crisis VIDEO

## **Sutter Health**



- 2 operating areas
- 21 affiliated acute hospitals
- 5 medical foundations
- 2 behavioral centers
- Newly added surgical centers
- 50,000+ employees & 12,000+ physicians
- Primarily in Northern & Central California, plus 1 behavioral center in Hawaii, 1 medical office in Oregon & 3 call centers in Salt Lake City, Utah





- SHEMS Duty Officer 24/7
  - Event recognition
    - Contact from external source
    - Affiliate calls SHEMS hotline
  - Conducts triage
  - Contact Incident Commanders





Earthquake



Flood



**Terrorism** 



Fire

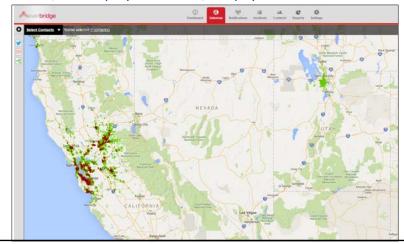


#### **Activation Levels:**

Level	Activation	Response
1	Standby	Used to notify the IMT and system leaders that an event is occurring or has occurred, response may be needed, but not at this time
2	Analysis	Utilize SHEMS infrastructure (positions as needed) to analyze emerging issues
3	Rapid Response System Guidance	Utilize SHEMS infrastructure (positions as needed) to provide coordinated system guidance
4	ICC & IMT Activated	Mobilize SHEMS IMT as needed to respond to affiliate needs

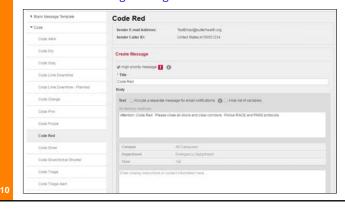
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- Everbridge Mass Notification System
  - System messaging
    - 55,000 employees and 12,000 physicians



## **SHEMS Features (cont.)**

- Everbridge Mass Notification System
  - Template-based messaging
    - Variables and messaging already pre-designated
      - Prompts for needed information within message
      - Messaging is less stressful and lowers time for message prep
      - Sending messages in less than few minutes





- Supply Cache
  - "Owned" by Risk Services
  - Oakland Herrick (25% of supplies)
  - Modesto (75% of supplies)
  - Powered Air Purifying Respirator (PAPR) standardization (Value Management Team)



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## **SHEMS Features (cont.)**

- Event Management Tool (EMT)
  - Sutter Health created a web-based portal to automate the ICS process
    - Allows users to interact at multiple locations



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- EMT users can:
  - Update the incident
  - Create requests
  - Allow messages to be sent to other sections
  - Track current and ongoing incident issues
  - Send out messages to ICC staff
  - Allow for post-incident review and reporting



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## **2015** Historical Wildfire Season

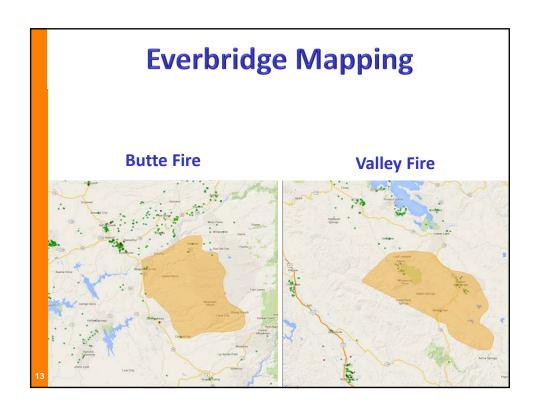
- 6000+ wildfires
- 308,000 acres burned
- 2 firefighter fatalities
- 7 civilian fatalities

The Butte and Valley fires significantly impacted affiliate operations:

- Sutter Amador Hospital (SAH)
- Sutter Lakeside Hospital (SLH)
- Sutter Care At Home (SCAH)
- Sutter Medical Foundation (SMF)
- Sutter Pacific Medical Foundation (SPMF)



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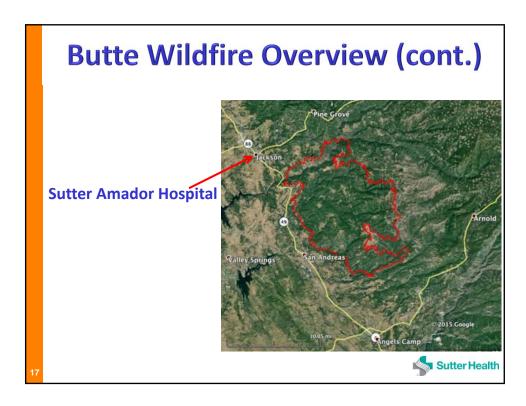


## **Butte Wildfire Overview**

- Started Sept. 9, 2015, impacting Amador and Calaveras Counties
- 70,868 acres burned
- Mandatory evacuations
- 475 residences, 343 outbuildings, 45 structures damaged
- 2 civilian fatalities, 1 injury
- Fire 100% contained Oct. 1, 2015



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## **Sutter Amador Overview**

- Located in Jackson, California
- Only hospital in Amador County
- 21,000 annual ED visits
- Stroke & Birthing Center
- 52 licensed beds
- 387 employees
- 48 physicians



## **Butte Wildfire Sutter Amador Impact**

#### **Tremendous Team Effort**

- Staff & volunteers offered up their homes for staff, pets and livestock
- Valley Operating Area Emergency Preparedness Coordinators
   & Safety Leaders offered to assist
- Contractors assisted with high efficiency particulate air (HEPA) supplies
- CAL FIRE & EMS provided excellent communication
- On-site Employee Assistance Program (EAP) resources
- SHEMS guidance



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# Butte Wildfire Sutter Amador Impact (cont.)

#### **Safety was the Priority**

- Hospital Command Center (HCC) open for 9 days
- Leaders dedicated to safety and continuity of services
- Action plans were reviewed and revised every operational period
- Evacuation was a possibility





# **Butte Wildfire Sutter Amador Impact (cont.)**

#### **6-Hour Power Outage**

- No building cooling
- Deployed: flashlights, lanterns & glow sticks
- Security escorts to cars
- PG&E placed hospital on high priority & re-routed grid

#### **Air Quality Issues**

- 40 filter units were acquired from Unger and other affiliates
- N-95s and PAPRs were made available to staff
- Indoor air quality (IAQ) specialist conducted monitoring







## **Butte Wildfire SHEMS Response**

- Sept. 9, 2015 Sutter Amador Hospital (SAH) notifies SHEMS Duty Officer that the hospital lost power due to Butte Fire
- Sept. 10, 2015 SHEMS fulfills SAH requests for IAQ consult
- Mandatory evacuation impacts SAH staff
- Sept. 10, 2015 SHEMS activates Level 4
- Environmental risk team members deployed to SAH
- SAH requested additional supplies (portable HEPA filter units & linen), staff, Infection Control consult and EAP resources

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## **Valley Wildfire Overview**

- Started Sept. 12, 2015, impacting Lake, Napa & Sonoma Counties
- 76,067 acres burned
- Mandatory evacuations
- 1,958 structures destroyed
  - 1,280 homes
  - 27 multi-family structures
  - 66 commercial properties
  - 585 other minor structures
- 4 civilian fatalities & 4 firefighters injured
- Fire 100% contained Oct. 15, 2015

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## **Sutter Lakeside Overview**

- Located in Lakeport, California
- One of 2 hospitals in Lake County
- 25-bed critical access hospital
- 18,000 annual ED visits
- Birthing Center
- 376 employees
- 89 physicians



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## **Valley Wildfire Sutter Lakeside Impact**

#### **Initiation of Hospital Incident Command**

 Notified all leaders and staff Sunday morning (one leader answered their cell phone while escaping the fire)

#### **Air Quality**

- Preserved air quality by maintaining facility lockdown, limiting entrances and exits to only two
- Adjusted air intake dampers to minimum positions or closed
- Positioned all available air scrubbers/HEPA units throughout facility

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## Valley Wildfire Sutter Lakeside Impact (cont.)

#### **Patient Care Services**

- Prepared for patient surge and hospital evacuation
- Maintained continuous communication with other hospitals out of the area regarding patient transfer in case evacuation became necessary
- Provided clinical support for community shelters





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## Valley Wildfire Sutter Lakeside Impact (cont.)

#### **Staffing**

- Received nursing staff from Sutter Santa Rosa Regional Hospital, Novato Community Hospital & Eden Medical Center
- · Worked with local real estate agents for available housing
- Continuous communication, support and education with all staff
- EAP on-site
- Provided child care and pet care services for staff
- Provided status of employees and families welfare, and need for assistance

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## Valley Wildfire Sutter Lakeside Impact (cont.)

#### Coordination

- MHOAC (Medical Health Operation Area Coordinator), CAL FIRE and Emergency Operation Center (EOC)
- Briefings with staff, leaders and SHEMS

#### **Supplies and Resources**

 Maintained communication with vendors regarding supply routes or inability to deliver

#### **Direct Impact on Hospital Staff**

- 62 evacuations
- 9 homes lost



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## **Valley Wildfire SHEMS Response**

- Sept. 13, 2015 Sutter Lakeside Hospital activated its HCC and notified SHEMS
- Sutter Lakeside Hospital requests HEPA filters, PAPRs, O2 e-tanks, staffing and Everbridge technical support through SHEMS Duty Officer
- SHEMS attended each briefing conducted
- SHEMS develops "on the fly," a staffing resource process for intra-affiliate staffing needs
- A disaster relief fund was created to assist those impacted by the fires
- Sept. 25, 2015 SHEMS deactivates

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## **Sutter Care At Home Overview**

- SCAH has a total of 2,250 employees
- Serves 18,000 patients per day
- Local office located in Lakeport (LP)
- 21 staff cover 400 square miles



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## **Sutter Care At Home Impact**

## Activated ICS Sept. 12, 2015 Communications/Transportation

- Phone lines were down
- Multiple road closures
- Used Everbridge to notify SCAH executive staff



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## **Sutter Care At Home Impact (cont.)**

#### **Patient Care Services**

- A number of patients were evacuated or in process of evacuation
- Reached out to local radio station announcing that patients should call to inform SCAH if they were safe
- Categorized patients based on evacuation risk and prioritized outreach to those at greatest risk

#### **Staffing**

- Staff evacuated from homes
- 2 staff lost their homes
- Used Everbridge to ask staff from out of the area to help cover shifts — 16 staff from other sites assisted

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## **Lessons Learned**

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## **Lessons Learned** — **Sutter Amador**

#### **Communication**

- Improve communication with County to ensure timely alerts and ongoing updates on emergencies
- Provide additional Everbridge education to staff members
- Coordinate with Sutter Medical Foundation
- Improve utilization of HICS forms

#### **Resources**

- Develop a staffing request process
- Need HEPA filter and PAPR acquisition process
- Anticipate public requests for O2



## **Lessons Learned** — **Sutter Amador (cont.)**

#### **Safety & Security**

- Implement access control measures
- Improve Security Branch functions
- Develop process to quickly assess air quality
- Enhance patient tracking process



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## **Lessons Learned** — **Sutter Lakeside**

- Needed additional air scrubbers/HEPA units charcoal filtered
- Ensure Everbridge database is up-to-date
- Keep list of leadership cell phone numbers current
- Train additional staff members on how to use Everbridge
  - SHEMS had to send Everbridge messages

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# Lessons Learned — Sutter Lakeside (cont.)

- Ensure EAP regularly rounds with employees
- Replace television in Command Center
- Add procedure in EOP/evacuation plan for transferring patient medical information to outside Sutter Health system hospitals if evacuation needed
  - SLH has electronic health records

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# Lessons Learned — Sutter Care At Home

- Utilize consistent Everbridge messaging for staff updates
- Acquire additional satellite phones to ensure communication redundancy
- Partner with local hospitals for support
- Consider staffing needs as a tactical objective
- Include the following in disaster bins:
  - A list of ham radio contacts
  - Maps of surrounding areas

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### **SHEMS Lessons Learned**

- Refine the process/protocols to utilize internal supply resources
- Ensure Everbridge messaging includes impacted medical foundation entities and SCAH (not just hospital)
- Utilize Everbridge mapping feature to locate employees impacted by event
- Review evacuation plans to ensure efficient triage process to prioritize patient evacuations

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## **SHEMS Lessons Learned (cont.)**

- Establish hardship fund that includes mechanism for employees', physicians' & community leaders' contributions
- Include Mental Health Resources Unit (EAP) within SHEMS
- Develop and implement disaster staffing resource process







## Thank You!

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