

Roles of Public Health Pharmacists in COVID-19 Responses

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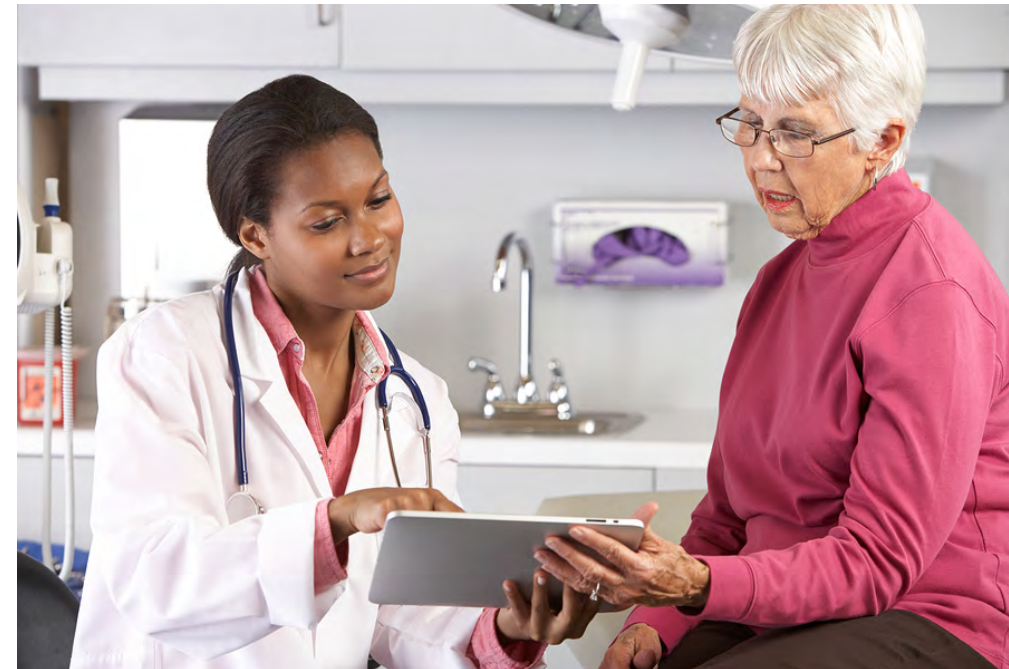
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- Public Health Pharmacists
- COVID-19 Responses
- COVID-19 Pharmaceuticals
- Emergency Preparedness
- Collaborative Efforts

PUBLIC HEALTH PHARMACISTS



- Health promotion
- Disease prevention
- Public health advocacy
- Health education
- Public Health/ Emergency preparedness
- Regulatory/Compliance





**Health Care Facility
Licensing and Certification**



**Health Care Professional
Licensing and Certification**



**Health Care Facilities
Information**



**Patients, Residents, and Families
Information**



**Stakeholders and Policy Makers
Information**



**Licensing and Certification
Program Information**

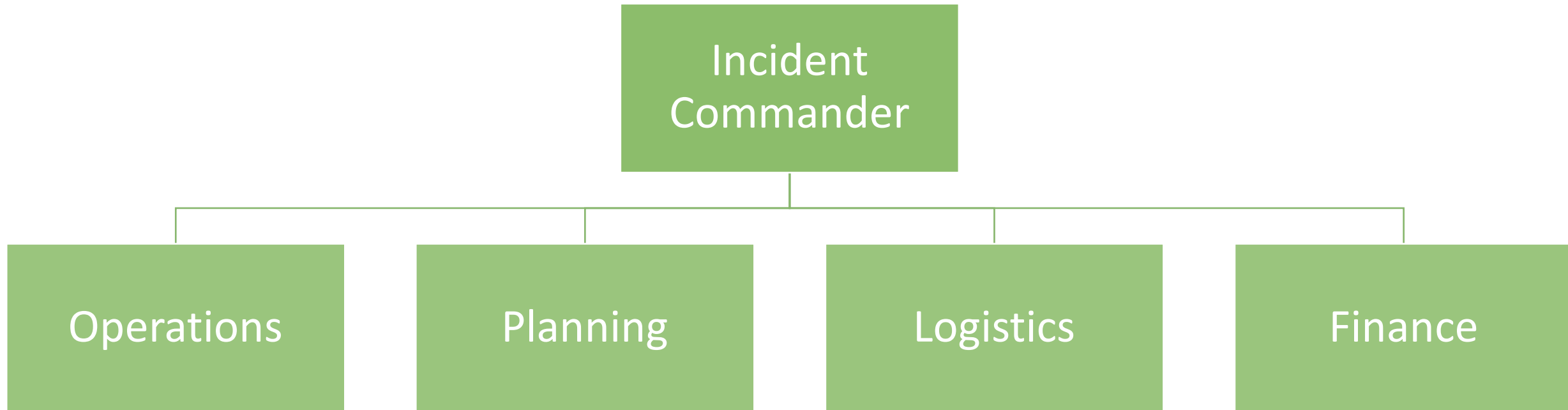


- Evaluates the quality of pharmaceutical services in licensed health facilities and compliance with state and federal regulatory requirements
- Performs investigations related to drug therapy, pharmaceutical services in health facilities
- Provides expert advice to departmental staff, health care providers, professional associations, other governmental agencies, and members of the public on provision of pharmaceutical services in health care facilities

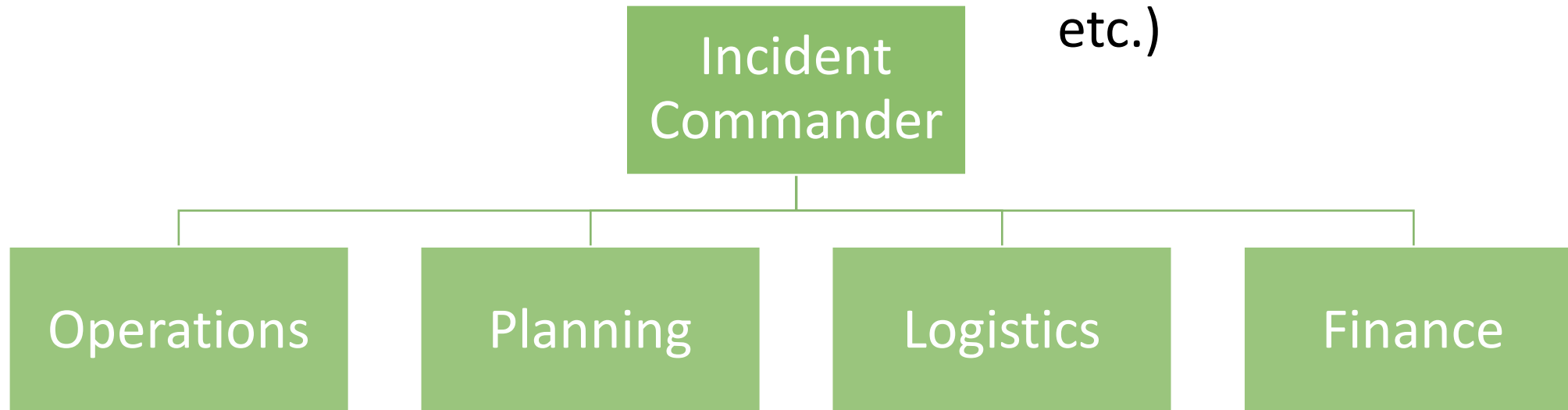
- Second largest County in CA
- 4,261 squared miles
- Population 3.34 million (as of 2018)
- Approximately 17,500 employees
 - Hospital pharmacy
 - Retail pharmacy
 - LTC pharmacy
 - Clinics
 - Emergency preparedness & response
- Medical services
 - TB
 - STD
 - Hansen's disease
 - Hepatitis
 - HIV/AIDS
 - Public Health Preparedness & Response
 - Mental Health
 - Skilled Nursing
 - Others

COVID-19 RESPONSES

- Incident Command System – manages “incident”
- “Incident” – fire, earthquake, hurricane, COVID-19
- Pharmacist – part of the ICS or consultant

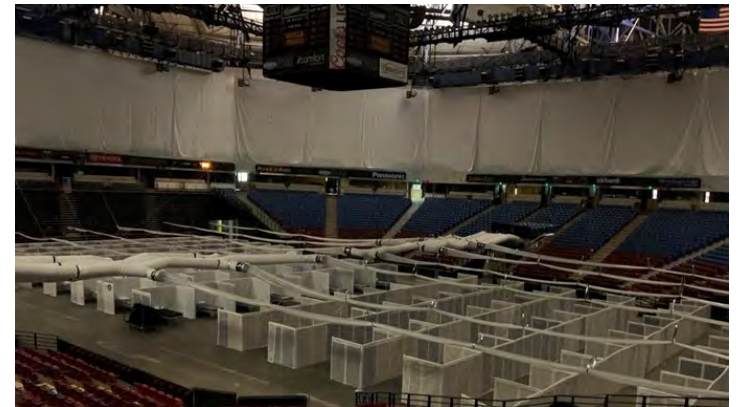
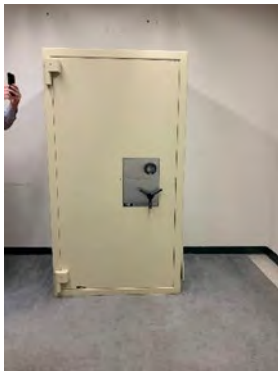
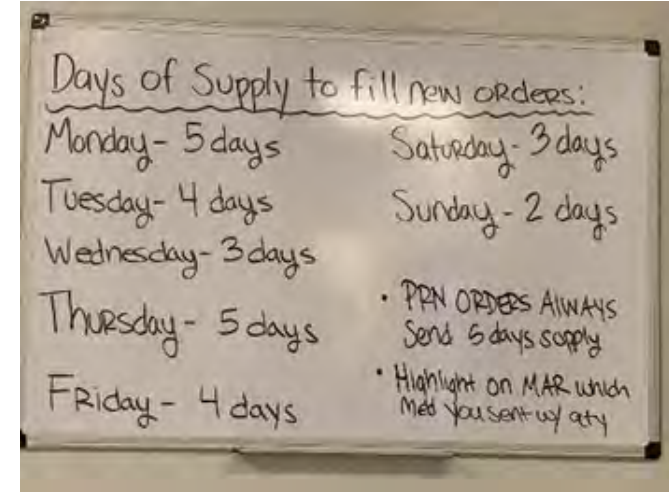
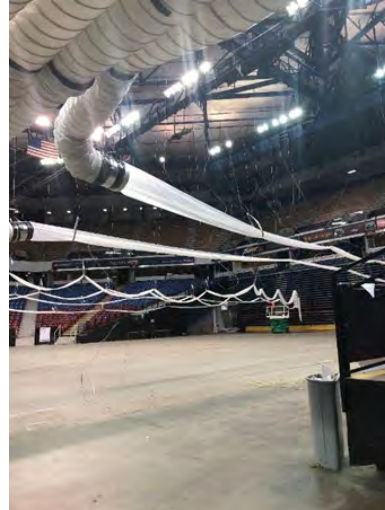


- Operations – Care & Shelter
 - Alternate Care Site/Facility
 - Public Health Hotel
 - Homeless Shelter
- Logistics – remdesivir
- Planning – vaccine distribution, mass vaccination
- Consultant – pharmaceuticals, quality (medications, vaccines, etc.)





- Assist in planning, developing and implementing drug distribution system in alternate care sites
- Setting up pharmacy
- Drug selection and procurement
- Develop a cost-efficient drug formulary for alternate care sites
- Infection control



COVID-19 PHARMACEUTICALS



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- EUA 5/1/20 – hospitalized patients
- Distribution managed by ASPR
 - CDPH – allocates and delivers to County
 - County – allocates to hospital
 - Donated supplies 5/4 to 6/29
 - Purchase – AmerisourceBergen
 - Allocation by ASPR July – Sept
 - Purchase directly with AmerisourceBergen – October



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- Coordination
 - Cal OES (Office of Emergency Services) / CDPH
 - Delivery / Receipt / Distribution
 - MHOAC (Medical Health Operational Area Coordinator)
 - MOC (Medical Operations Center)
 - Pharmacist
 - Storage – cold v. room temperature
 - Partners – hospital pharmacies

Allocation & Distribution of Remdesivir: A Five-step Process

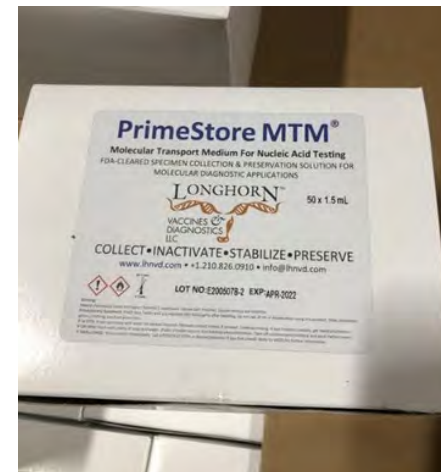


*Data input likely to occur every other Monday, beginning Monday, July 6

**Shipments likely to occur every other Monday, beginning the week of Monday, July 13



Drug and Supply Distribution





- Lesson learned from initial COVID-19 spike
- Prevent critical care drug shortage in the event of a COVID-19 resurgence
- Monitor critical care drug shortages
- Collaboration with CSHP and the California Hospital Association
- Surveying hospitals and wholesalers
- Presented increase in critical care drug demand to agency level in the event of a COVID-19 resurgence during the winter months

- Generally contained antibiotics, antiviral drugs, antidotes, antitoxins, vaccines, personal protective equipment
- Not designed for critically ill patients
- Needs for COVID patients: paralytics, sedatives and pressors – ongoing national shortage
- Collaboration with CSHP and the California Hospital Association
- Proposed addition to SNS

- Supplements state and local supplies during public health emergencies
- Managed by ASPR (Assistant Secretary for Preparedness and Response)
- Coordinated with state and local governments
- Strategically located throughout the United States



- First established 1999 – agents for bioterrorism: botulism, anthrax, smallpox, plague, viral hemorrhagic fever, tularemia
- Available within 12 hours – managed, controlled, activated only by federal government
- Partners: government, non-government
- Example: 9/11 supplies delivered within 7 hours



- SNS Pharmaceuticals
 - Nerve agent antidotes
 - 1960 containers located at 1340 locations
 - Reach 90% of US population within 1 hour
 - Located at hospitals, fire stations



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- Coordinate with federal, state, local government, hospitals, first responders
- Storage
 - Temperature
 - Humidity
 - Security
- Distribution
 - Upon activation
- Available 24/7



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- Collaboration: EPO, RSS Warehouse, CAL FIRE, DGS and CalOES
- Drug procurement for alternate care facilities
- Remediate drug shortages reported by health facilities thru collaboration with MHOAC and RDMHS
- Support health facilities with procurement of PPE
- Allocation of the drugs and supplies from the Strategic National Stockpile

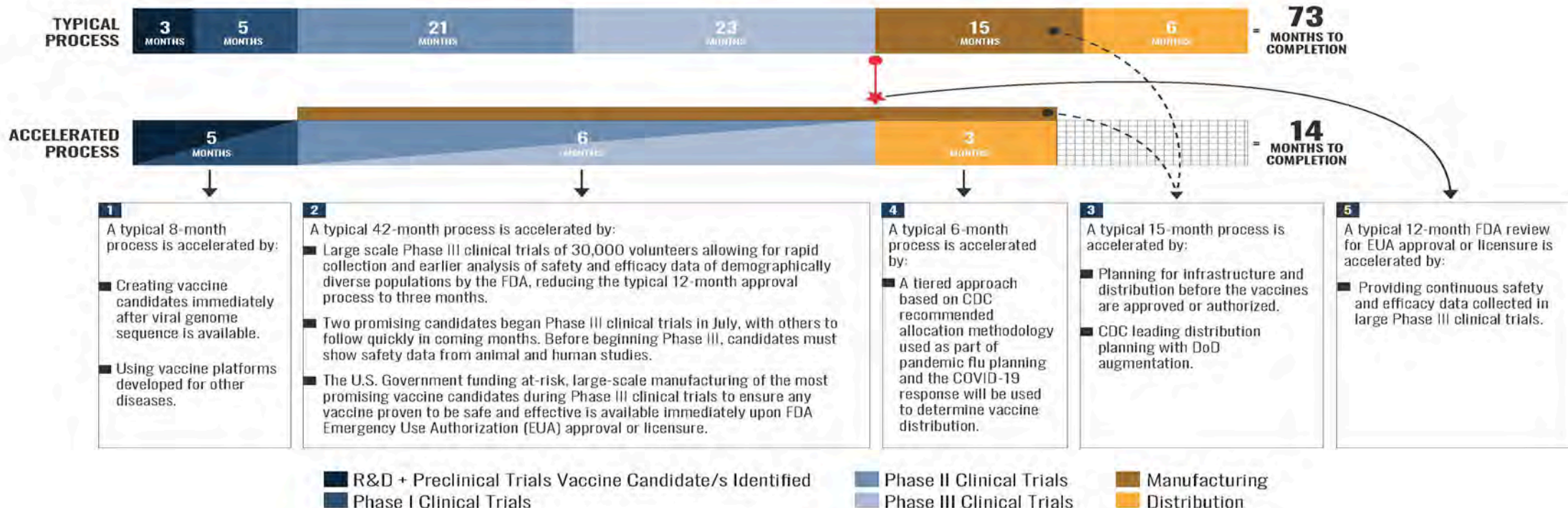
- In May 2020, in anticipation of an increase need for case investigators and contact tracers to slow down the transmission of COVID-19, all pharmacists in our program completed training in contact tracing
- 1/3 of our pharmaceutical consultants are currently deployed to assist local health jurisdictions with their case investigation and contact tracing effort
- Provide education and support to local health jurisdiction, COVID positive cases and contacts on COVID care, testing, proper quarantine and isolation to reduce the transmission of the disease

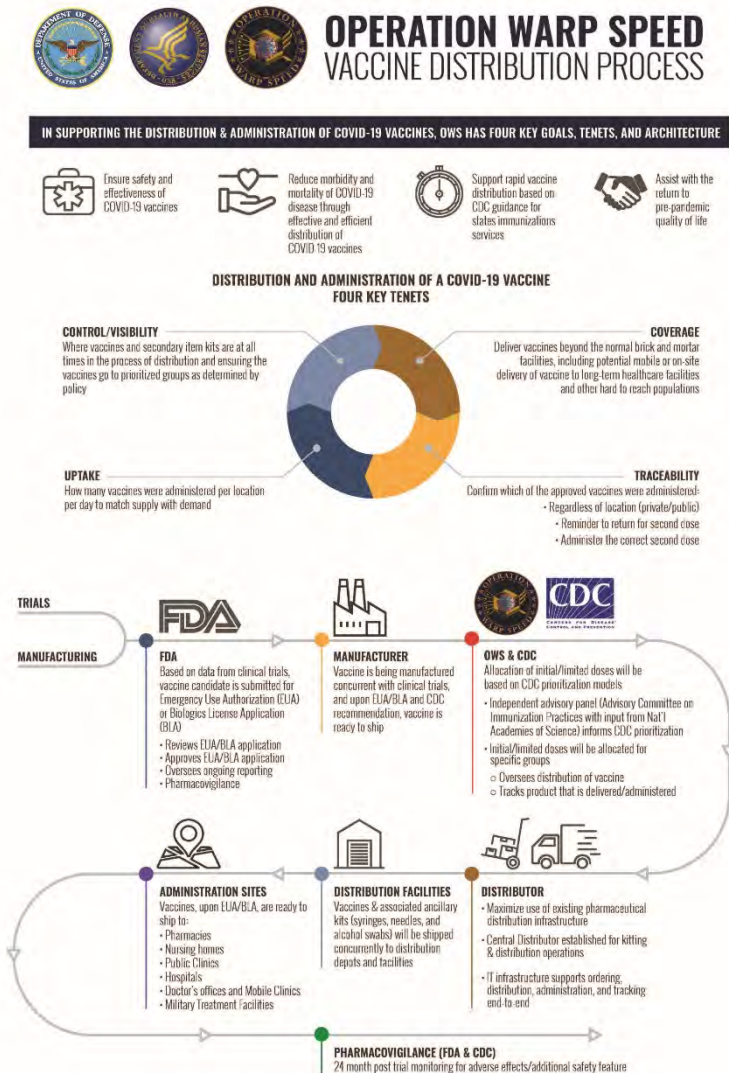
- Part of the Healthcare Acquired Infection team of CDPH to conduct onsite infection control assessment in health facilities and provide feedback and support to reduce transmission of COVID in nursing homes
- Visits are not enforcement based
- Provide consultation and support on infection control to health facilities
- Leading infection prevention training cohorts to train surveyors in assessing infection control practices in health facilities



OPERATION WARP SPEED ACCELERATED VACCINE PROCESS

MISSION: Deliver 300 million doses of safe and effective vaccine by 1 January 2021.

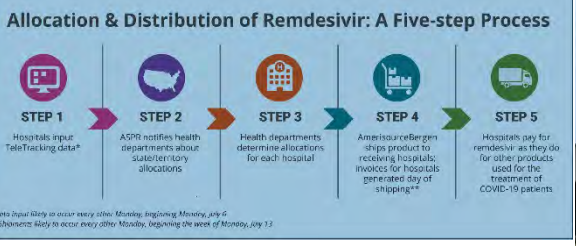




- Coordination – CDPH, County, hospitals, clinics
- Delivery / Receipts / Distribution
- Storage – temperature, security

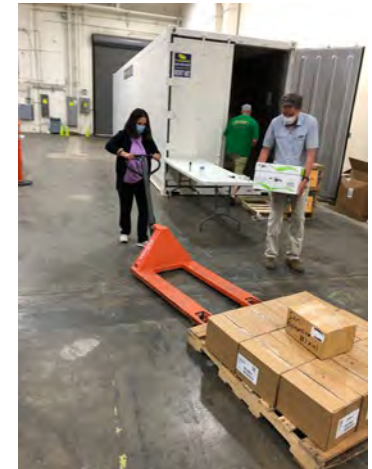
COLLABORATIVE EFFORTS

- Pharmacy Leaders from Hospital Association of San Diego and Imperial Counties (HASDIC)
- CSHP Leadership
- CDPH L&C Leadership
- Board of Pharmacy Leadership
- California Hospital Association
- San Diego County Leadership
- Collaboration and coordination
 - Drug shortages
 - Challenges
 - Adding new medications to SNS
 - Remdesivir distribution
 - Vaccine distribution
 - Pharmacist's scope of practice in COVID-19 Testing and Vaccination



Days of Supply to fill new orders:

Monday - 5 days	Saturday - 3 days
Tuesday - 4 days	Sunday - 2 days
Wednesday - 3 days	
Thursday - 5 days	• PRN ORDERS ALWAYS Send 5 days supply
Friday - 4 days	• Highlight on MAR which med you sent w/ qty



- American Public Health Association (APHA) <https://apha.org/>
- Assistant Secretary for Preparedness and Response (ASPR) <https://www.phe.gov>
- California Department of Public Health (CDPH) <https://www.cdph.ca.gov/>
- California Office of Emergency Services (CalOES) <https://www.caloes.ca.gov/>
- Federal Emergency Management Agency (FEMA) <https://www.fema.gov/>
- Operation Warp Speed <https://www.defense.gov/Explore/Spotlight/Coronavirus/Operation-Warp-Speed/>
- San Diego County <https://www.sandiegocounty.gov/>