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Webinar Series COVID-19: CALTCM Weekly Rounds

September 21, 2020

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Webinar Faculty & Moderator

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CALTCM Calculate Many New Call Plant Case

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Webinar Faculty

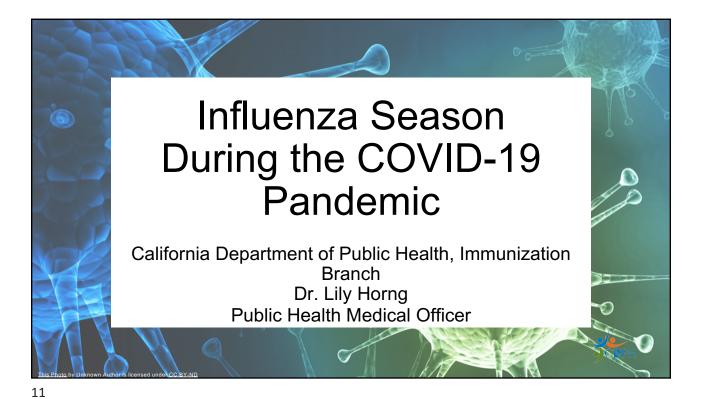
Michael Wasserman, MD, CMD
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Influenza and COVID-19

- Epidemiology
- Clinical presentation
- Diagnosis
- Treatment
- Prevention
 - Influenza Vaccination





Burden of Influenza Versus COVID-19

	Influenza	COVID-19
Global	Annual estimates: 1,000,000,000 cases 290-650,000 deaths (1)	As of 9/17/2020: 29,737,453 cases 937,391 deaths (3)
USA	10/2019-4/2020 estimates: 39-56,000,000 cases 24-62,000 deaths (2)	As of 9/17/2020: 6,613,331 cases 196,277 deaths (4)



^{1.)} www.who.int/news-room/detail/11-03-2019-who-launches-new-global-influenza-strategy

2) www.cdc.gov/flu/about/burden/preliminary-in-season-estimates.htm 3) https://covid19.who.int/



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COVID-19 in California

• State: 766,201 cases and 14,721 deaths as of 9/17/20 (1)

• SNF residents: 25,234 cases and 4,340 deaths (2)

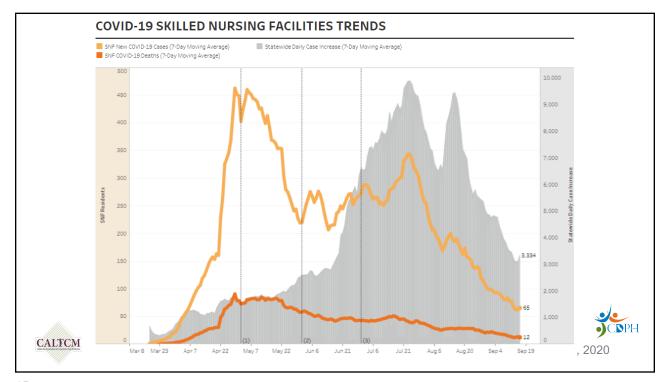
• SNF staff: 18,784 cases and 147 deaths



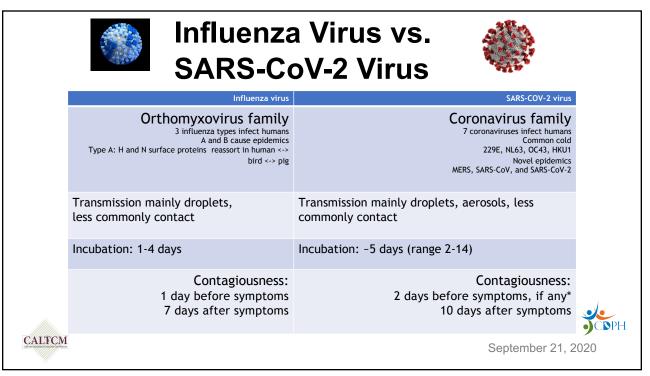


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1.) https://update.covid19.ca.gov/#top 2) https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/SNFsCOVID_19.aspx



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Flu and COVID-19 symptoms are *similar*.

Complications in both

- Resp: pneumonia, ARDS
- Cardiac: myocarditis, pericarditis
- Neuro: encephalitis
- Sepsis, multiorgan failure
- Secondary bacterial infections









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Unique Features of COVID-19

- Up to 40% of people with COVID-19 have <u>no</u> symptoms.
- Olfactory symptoms are common



Complications specific to COVID-19

- Hypercoagulability: MI, PE, DVT
- Children: MIS-C
- Post-COVID syndrome
- What next?



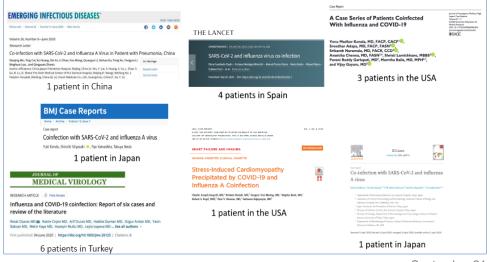
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· How often and how severe? ...few case reports



September 21, 2020 webinar on co-infection: https://www.mjhlifesciences.com/covid19-coalition

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The good physician treats the disease; the great physician treats the patient who has the disease.

~Sir William Osler

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From CDPH & Beyond

Diagnostic Tests

- Ideal test
 - Multiplex RT-PCR for Influenza A, Influenza B, and SARS-CoV-2
 - RT-PCR preferred over antigen
 - Antibody/serology not diagnostic and not recommended
- · Inflammatory markers
 - · WBC, CRP, procalcitonin, LFTs nonspecific
 - D-dimer for hypercoagulability (COVID19) nonspecific
- Radiology
 - · CT chest not recommended for diagnosis
 - 'Viral' picture in influenza, SARS-CoV-2, and other respiratory viruses: normal to bilateral ground-glass



https://www.idsociety.org/covid-19-real-time-learning-network/disease-manifestations--complications/co-infection/

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Treatment for Influenza

- Empiric antiviral treatment of influenza is recommended ASAP in:
 - · Hospitalized patients with respiratory illness
 - Outpatients with severe, complicated, or progressive respiratory illness
 - · Outpatients at higher risk for influenza complications



Treatment for Influenza

Flu A + B Antivirals	Use	Age and recommendations	Adverse events
Oral Oseltamivir	Treatment and prophylaxis	Rx: any age* PPx: <u>></u> 3 mo	Nausea, vomiting, headache Transient neuropsych Skin
	Treatment and prophylaxis	Rx: ≥ 7 yr PPx: ≥ 5 yr Avoid in asthma, COPD, underlying resp disease	Bronchospasm, sinusitis Dizziness Transient neuropsych Skin
Intravenous Peramivir	Treatment	<u>></u> 2 yr	Diarrhea Transient neuropsych
Oral Baloxavir	Treatment	<u>≥</u> 12 yr	

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Treatment for COVID-19

- Treatment of COVID-19 only in:
 - Hospitalized patients with severe illness
 - Steroids
 - Veklury (remdesivir) under EUA
 - · Clinical trials of many more agents



Prevention

- Non-pharmaceutical interventions
 - Appropriate mask use and respiratory hygiene
 - Physical distancing
 - · Hand hygiene
- Vaccination
 - · Influenza vaccines
 - Pneumococcal vaccines
- Chemoprophylaxis
 - Influenza antivirals

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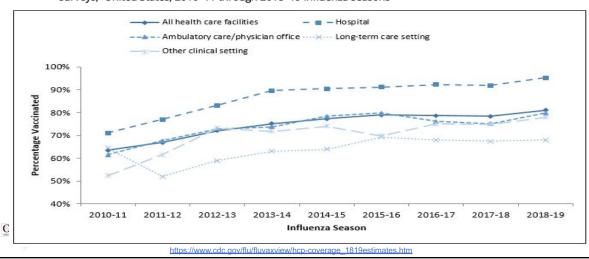
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Flu vaccination is important in patients and HCW

Reducing overall respiratory illnesses with flu vaccination can save lives and reduce stress on healthcare system.

FIGURE 1. Percentage of health care personnel who received influenza vaccination, by work setting* surveys,† United States, 2010–11 through 2018–19 influenza seasons



High-Priority Persons for Influenza Vaccines

- · Essential workers
- Persons at higher risk for severe illness from COVID-19
 - adults > 65 years
 - · residents in nursing homes
 - people with chronic medical conditions
 - racial/ethnic groups disproportionately impacted by COVID-19
- Persons at higher risk for influenza complications
 - infants and young children; children with neurologic conditions
 - pregnant women
 - adults ≥ 65 years
 - · people with chronic medical conditions



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2020-2021 Influenza Vaccination Recommendations

- Flu vaccine is recommended for all persons ≥ 6 months.
- Any licensed, age-appropriate flu vaccine is best.
 - Egg-based influenza vaccines
 - Inactivated (IIV)
 - · Standard dose
 - High dose (HD-IIV)
 - Adjuvanted (allV)
 - Live attenuated (LAIV)
 - · Non-egg-based (egg-free) influenza vaccines
 - Cell-culture inactivated (ccIIV)
 - Recombinant (RIV)



Vaccine type	6 through 23 mos	2 through 3 yrs	4 through 17 yrs	18 through 49 yrs	50 through 64 yrs	≥65 yrs
V4s (egg)	Afluria Quadrivalent Fluarix Quadrivalent FluLaval Quadrivalent Fluzone Quadrivalent					
cIIV4 (cell)		Flucelvax Quadrivalent				
RIV4 (recombinant)			Flublok Quadrivalent			
djuvanted allV3 (egg)						Fluad
djuvanted allV4 (egg)						Fluad Quadrivalent NE
ligh-dose HD-IIV4 egg)						Fluzone High-Dose Quadrivalent
AIV4 (egg)	FluMist Quadrivalent					

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Cal/OSHA Aerosol Transmissible Disease (ATD) Standard

"Every Employer shall furnish employment and a place of employment that is safe and healthful for the employees therein."

~California Labor Code Section 6400

- Employers are *required* to provide seasonal influenza vaccine to employees with occupational exposure.
 - Employers include hospitals, skilled nursing facilities, and long term health care facilities.
 - Vaccine must be provided at no cost and at a time and place reasonable for employees.
- ATD regulation <u>www.dir.ca.gov/title8/5199.html</u>



From CDPH & Beyond

Strategies to Increase HCW Flu Vaccination



- Document and track flu vaccination rates
 - Use declination forms
- · Increase access
 - Offer vaccine on multiple days/shifts and in convenient locations
 - · Use a mobile vaccination cart to reach staff
- Educate to counter misconceptions
 - · Flu vaccine is safe and does not cause flu illness.
 - Flu vaccine prevents severe flu complications and prevents transmission to coworkers, patients, and families.
- Create a culture promoting vaccination
 - · Peer advocates, contests, incentives, badge stickers
 - · Show vaccination rates to staff



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Resources

- · CDC Influenza resources
 - https://www.cdc.gov/flu/resource-center/index.htm
 - https://www.cdc.gov/flu/season/faq-flu-season-2020-2021.htm
 - https://www.cdc.gov/flu/professionals/antivirals/summary-clinicians.htm
 - https://www.cdc.gov/flu/professionals/vaccination/prepare-practice-tools.htm
- · CDC COVID-19 resources
 - https://www.cdc.gov/coronavirus/2019-ncov/
 - https://www.cdc.gov/flu/symptoms/flu-vs-covid19.htm
 - https://www.cdc.gov/vaccines/pandemic-guidance/index.html
 - https://emergency.cdc.gov/coca/calls/2020/callinfo_082020.asp
- CDC/IDSA COVID-19 Clinician resources
 - https://www.idsociety.org/covid-19-real-time-learning-network/
- · Media/communication resources
 - https://www.immunizeca.org/DontWaitVaccinate/
 - https://eziz.org/resources/flu-promo-materials
- * https://www.cdc.gov/flu/resource-center/freeresources/print/print-healthcare.htm

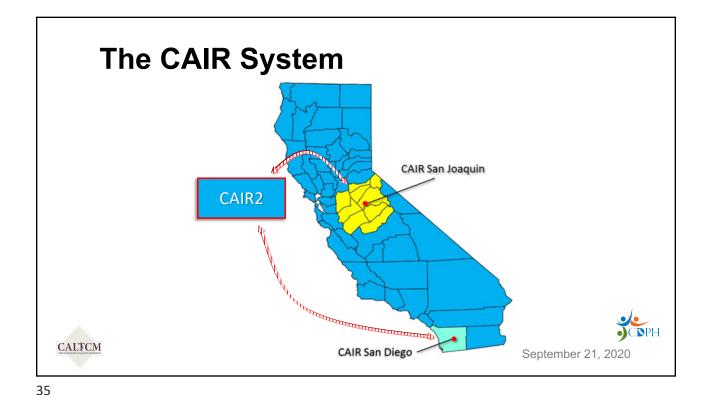






CAIR2

California
Immunization Registry
(CAIR2)



CAIR - Vision and Mission

Vision:

Any authorized user anywhere in the state of California can immediately obtain comprehensive immunization information on any California resident.

Mission:

CAIR supports the secure, electronic exchange of immunization records to support the elimination of vaccine-preventable diseases.





CAIR - Statute

- Health & Safety 120440
- Voluntary, all ages
- Authorized users:
 - Health care providers
 - Schools
 - · Childcare facilities
 - Local health departments
 - WIC
 - Health care plans (read-only, HEDIS)
 - Foster care agencies
 - County welfare departments



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CAIR - Standard IIS Features

- Consolidates immunizations from different sources into a single patient record
- · Assists providers in determining immunizations due
- Manages vaccine inventory
- Assists providers to do reminder/recall
- Produces a variety of patient-specific and aggregate reports



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CAIR - Requirement for Disclosure



- Patient must receive disclosure before data can be shared with CAIR
- Discusses benefits and patient rights
- Right to "Lock" record to prevent other users from viewing

Immunization Registry Notice to Patients and Parents

Immunization registry to face the patients and Parents

Introductation or thosis prevent serious diseases. Seriespia think of shothy too laver received can be hard. It's especially hard from the none about pare them. Toolsy, doctors use a scure computer system colled an immunization registry been been of foots. Seriespia the source as a scure computer system colled an immunization registry been been of foots. Seriespia the source and the received the seriespia to seriespia the seriespia th

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http://cairweb.org/cair-forms/

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CAIR2 - Data Sources

 83% of data submission to CAIR2 comes from health care provider EHR systems

Data Cauraa	Sites		
Data Source	#	%	
Provider EHRs	4,174	83%	
Manual Entry	841	17%	
TOTAL SUBMITTERS	5,015	100%	

)CDP

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CAIR2 – Patients and Doses

	Measure	0-5 yrs	6-18 yrs	19+ yrs	All Ages
	CA Population	2,500,378	5,922,031	26,584,795	35,007,204
	Patients In	3,533,617	6,454,094	22,554,143	32,541,854
	% Patients In	141%	109%	85%	93%
	Patients w/ ≥2 doses	2,098,358	5,931,833	16,178,614	24,208,805
	% w/ <u>></u> 2 doses	84%	100%	61%	69%
	Vaccine Doses	36,796,525	122,889,462	131,848,820	291,534,807
CALTC	ALTEM Sentember 21, 2				

* As of 8/13/2020. CAIR2 only.

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http://cairweb.org



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Questions?

• Steve.nickell@cdph.ca.gov



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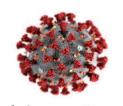
Visit our dedicated website for details

https://www.caltcm-summit-for-excellence.org/

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September 28

CALTCM Open Mic

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