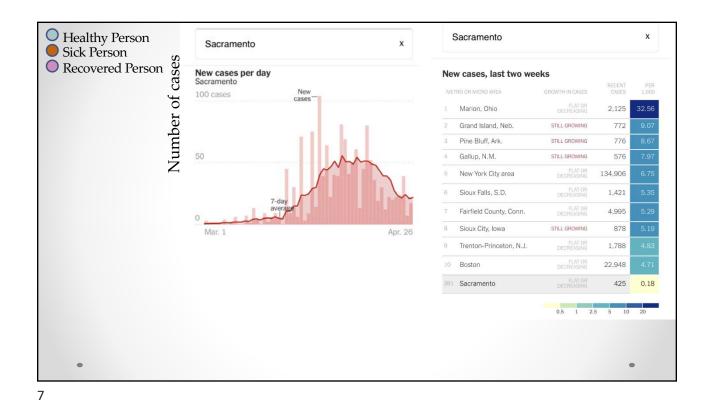


	ristics of Coronavirus 2019 in China	
Initial Presentation of COVID-19 Infection	Characteristic	All patients (N=1099)
	Age Median (IQR)	47 (35-58)
Fever 88% Fatigue 38% Chills 11% Headache 14%	Admission Fever (>37.5)	43.8%
Nasal congestion 5% Sore throat 14% Dry cough 68%	Admission Fever (>38.1)	21.7%
Productive cough 33% Dyspna 19% Nausea/emesis 5%	Hospitalization Fever (>37.5)	88.7%
Myalgias 15%	Cough	67.8%
	Fatigue	38.1%
	Dyspnea	18.7%

April 25th, 2020 CDC added six new symptoms of COVID-19

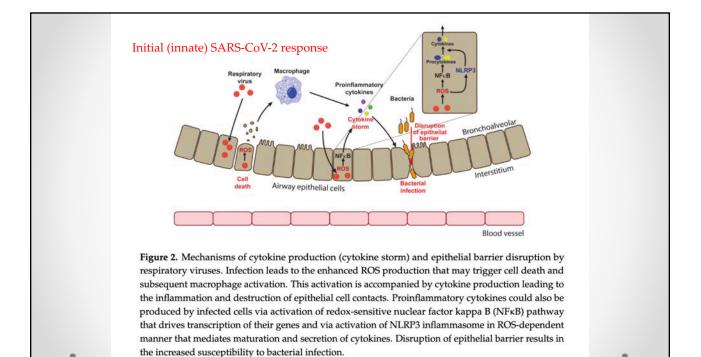
- chills,
- rigors,
- muscle pain,
- headache,
- sore throat,
- lack of taste, and lack of smell
- in addition to fever, cough, and shortness of breath

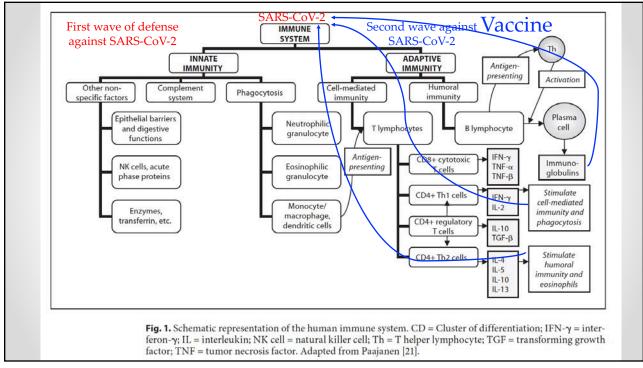


New deaths per day New deaths, last two weeks Sacramento GROWTH IN DEATHS RECENT 10 deaths New York City area 10,467 New deaths Fairfield County, Conn. 459 STILL GROWING Hartford, Conn. 529 STILL GROWING 241 Springfield, Mass. 5 Trenton-Princeton, N.J. 138 New Haven, Conn. STILL GROWING 310 Detroit 1,510 7-day New Orleans 437 average 0 Albany, Ga. 51 Mar. 1 Apr. 26 Boston STILL GROWING 1,625 Metro and micropolitan areas are bigger than just the city limits of a given place 311 Sacramento 30 0.01 they often include the surrounding suburbs and exurbs. 0.025 0.05 0.1 0.2 0.3 0.4 • •

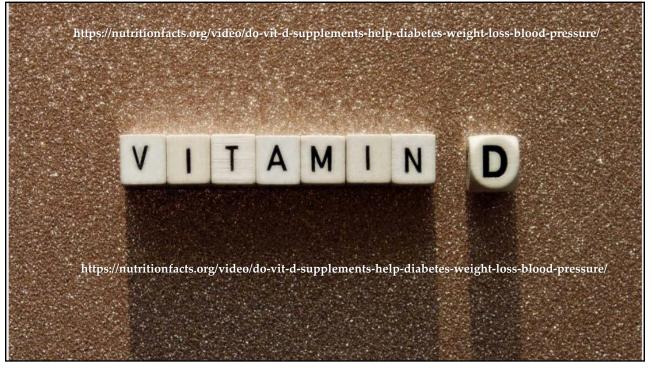
Best Treatment is Prevention

- Shelter-in-place order
- No symptoms- Keep physical distance (6 feet away from each other), or Mask
- Wash hands, wash hands, wash hands
- Do not touch face
- Stay home if not feeling "well"
- Define new "normal"









VITAL: The VITamin D and OmegA-3 TriaL (VITAL): Principal Results for Vitamin D and Omega-3 Fatty Acid Supplementation in the Primary Prevention of Cardiovascular Disease and Cancer

Purpose: To study the primary prevention role daily supplements of vitamin D3 or omega-3 fatty acids in reducing the risk of developing cancer, heart disease, and stroke in people with no history of cancer, heart disease or stroke.

Trial Design: 25,871 U.S. adults (men \geq 50; women \geq 55); median treatment 5.3 years. Double-blinded, placebo-controlled, randomized, 2x2 factorial: (1) vitamin D3 (cholecalciferol; 2000 IU daily) and marine omega-3 fatty acids (Omacor* fish oil, (eicosapentaenoicacid [EPA] and docosahexaenoic acid [DHA]], 1 g daily); (2) vitamin D and omega-3 placebo; (3) vitamin D placebo and omega-3 fatty acids; (4) both placebo.

Primary Endpoints: (a) MACE (composite MI, stroke, CVD mortality); (b) total invasive cancer.

Results: Major CVD events and total invasive cancer were not significantly reduced by Omega-3 or vitamin D3. Omega-3 significantly reduced total MI, especially in African Americans and those with lower fish intake.

	Vit. D3	placebo	O3FA	placebo
MACE composite	396 events	409 events	386 events	419 events
	HR=0.97		8% reduction (HR-0.92); p=0.24	
Total Invasive Cancer	793 events	824 events	820 events	797 events
	HR=0.96		No reduction (HR=1.03)	
Total MI	169 events	176 events	145 events	200 events
	HR=0.96		28% reduction (HR=0.72, p=0.003)	
MI in African Americans			9 events	39 events
			77% reduction, (HR=.23, interaction p=0.001)	



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