

COVID Prevention: A Swiss Cheese Model

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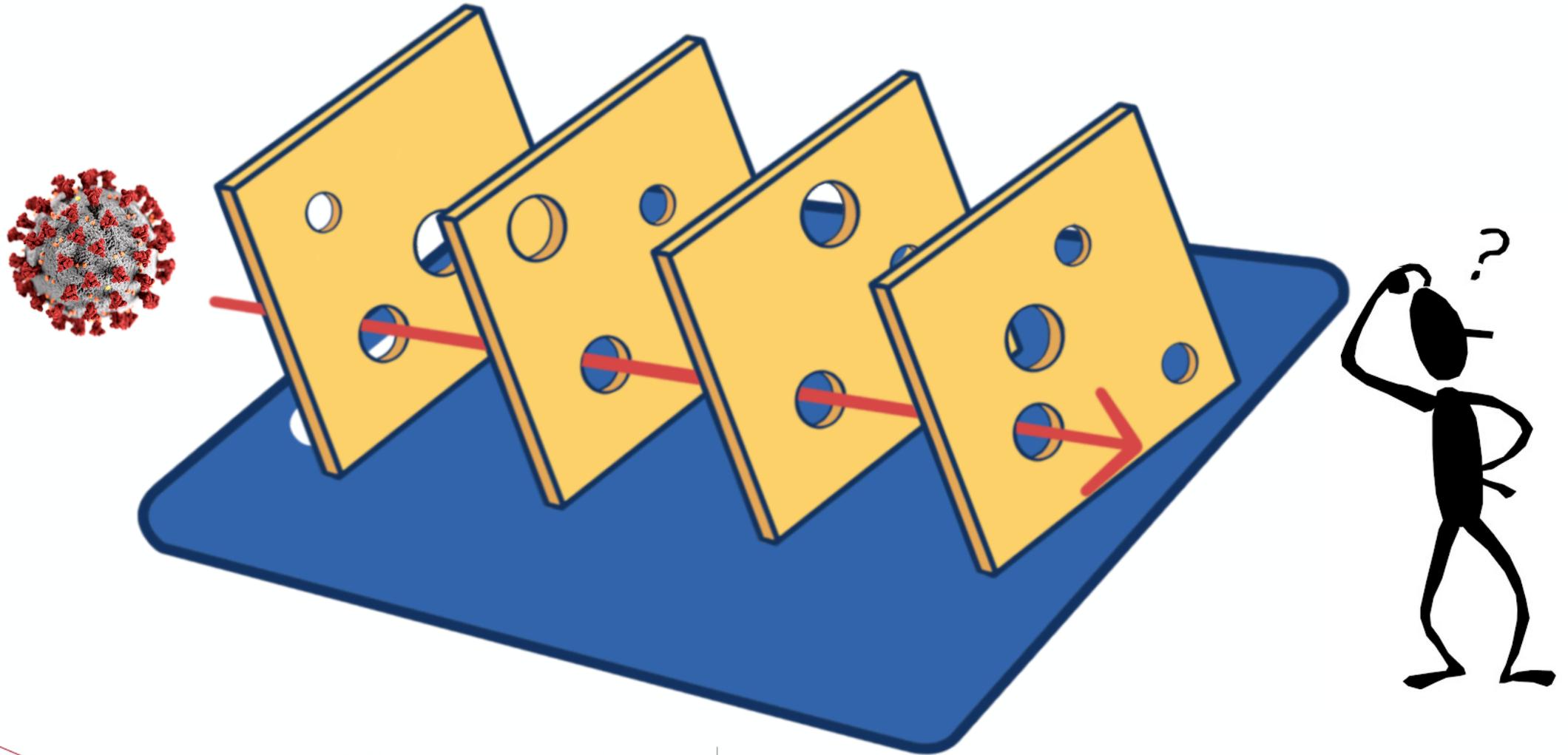
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Chapman University School of Pharmacy



CHAPMAN
UNIVERSITY

School of Pharmacy

Swiss Cheese Model: COVID Prevention



Distance

- “Shelter at home”, quarantine, isolation, contact tracing
- 6 feet apart

* 3 ft = 82% protection, 6 ft...better

Environment

- HEPA filters & ↑ air exchanges
- Surface decontamination & electrostatic sprayers

Personal

- Masks (face coverings, level 1-3 surgical masks, N/K95s)
- Face Shields (eye protection)
- Hand washing/hand sanitizer
- Testing (diagnostic vs antibody)
- **Daily COVID screening**

* 67% <surgical mask, 12-16 layer cotton>

* 78% protection Face Shield

Vaccines

- No approved vaccines (EUA or Approved)
- **4 entering/in phase 3 trials**

Meds

- No FDA approved medications for prevention of COVID-19
- 1 new emergency approval for Remdesivir (hospitalized)
- Convalescent serum of recovered patients

*Chu D. Lancet 2020; 395: 1973–87

Daily COVID Screening

Over the last 24 hours, are any of the following true for you?

1. I am sick with COVID-19 symptoms
2. I have traveled outside the U.S. in the last 14 days
3. I have been notified that I am COVID-19 positive or have come in contact with someone who has or is suspected of having COVID-19
4. I have a temperature of 100.4 degrees F (or 38 C) or greater

YES



NO



Chapman University Daily COVID Screening



Chapman University <noreply@qemailserver.com>

To:  Goad, Jeffery

Today at 7:59 AM

Jeff Goad is CLEAR as of Monday, July 27th to access any Chapman University campus.

You answered NO to all COVID-19 related questions. You agree that you truthfully answered these questions to the best of your knowledge.

COVID Symptom Checker

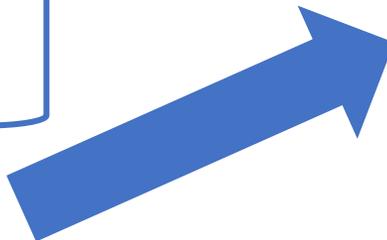


10 days
24 hrs no



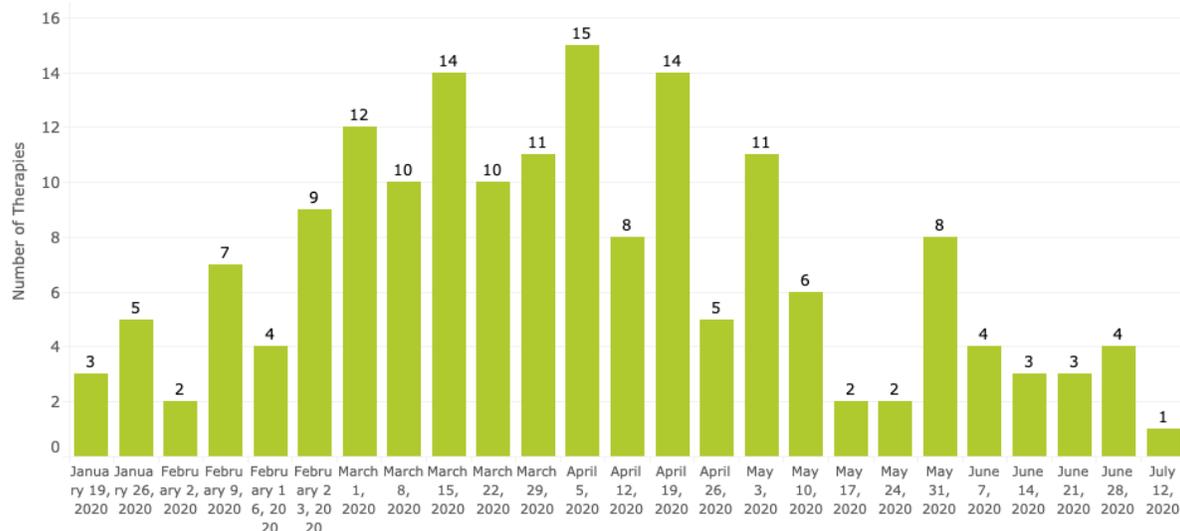
Extreme difficulty breathing (gasping for air or cannot talk without catching your breath)	<input type="checkbox"/>
Blue-colored lips or face	<input type="checkbox"/>
Severe pain or pressure in the chest	<input type="checkbox"/>
Severe, constant dizziness or light-headedness	<input type="checkbox"/>
Acting confused	<input type="checkbox"/>
Unconscious or very difficult to wake up	<input type="checkbox"/>
Slurred speech	<input type="checkbox"/>
Seizures	<input type="checkbox"/>
Signs of low blood pressure (too weak to stand, light headed, feeling cold, pale, clammy skin)	<input type="checkbox"/>
None of these	<input type="checkbox"/>

911

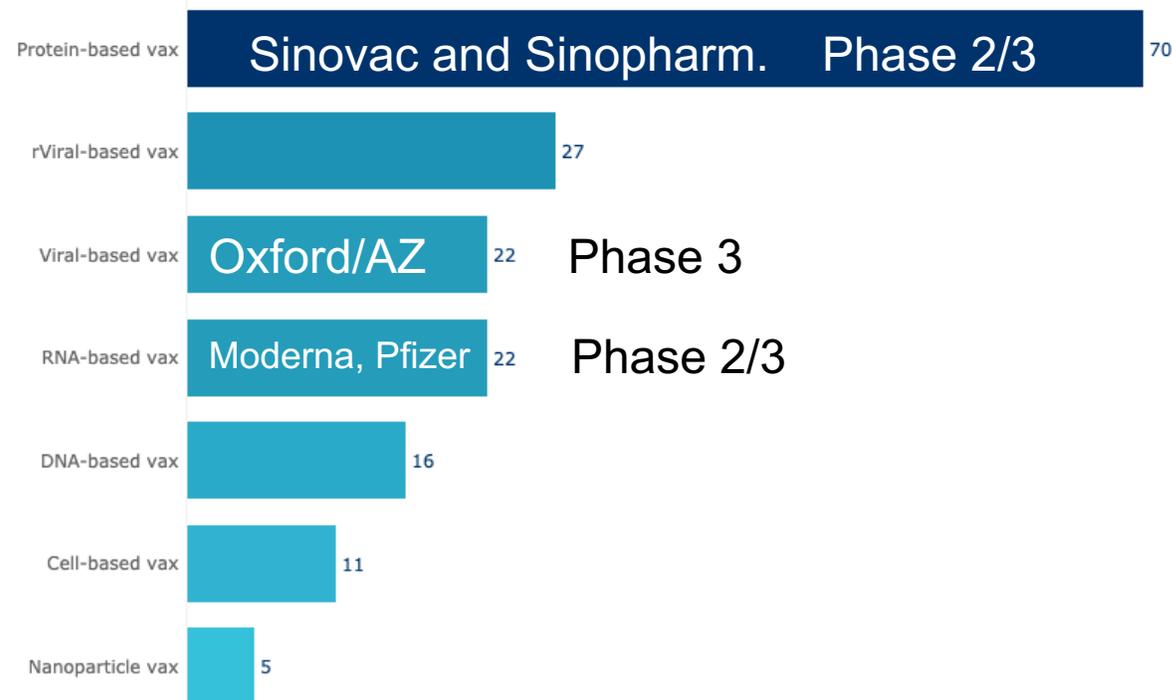


Fever or feeling feverish	43%	<input type="checkbox"/>
Mild or moderate difficulty breathing	29%	<input type="checkbox"/>
Cough	50%	<input type="checkbox"/>
Muscle aches or Body aches	36%	<input type="checkbox"/>
Sore throat	20%	<input type="checkbox"/>
Nausea, Vomiting or diarrhea	12-19%	<input type="checkbox"/>
New loss of taste or smell	<10% - 65%	<input type="checkbox"/>
Headache	34%	<input type="checkbox"/>
None of these		<input type="checkbox"/>

COVID-19 Vaccine Candidates



COVID Vaccine Development Begins



A Continuum of Prevention

