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"Long COVID is broadly defined as signs, symptoms, and conditions that continue or develop after initial COVID-19 or SARS-CoV-2 infection. The signs, symptoms, and conditions are present four weeks or more after the initial phase of infection; may be multisystemic; and may present with a relapsing- remitting pattern and progression or worsening over time, with the possibility of severe and life-threatening events even months or years after infection. Long COVID is not one condition. It represents many potentially overlapping entities, likely with different biological causes and different sets of risk factors and outcomes."

–U.S. Federal Working Definition

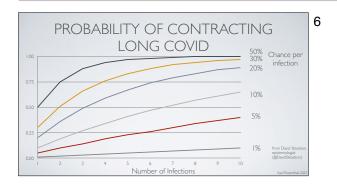
# POSTACUTE SEQUELAE OF SARS-COV-2 INFECTION (PASC)

• Published May 25, 2023 by Journal of American Medical Association

• NIH Researching COVID to Enhance Recovery (RECOVER) Initiative

• 9,764 participants

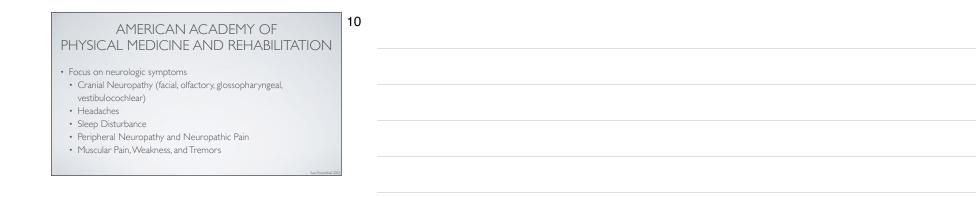
POSTACUTE SEC SARS-COV-2 INFEC			
<ul> <li>37 symptoms reported in at least 2.5% of cohort</li> <li>12 symptoms "hang" together</li> <li>Up to 21% meet criteria</li> </ul>	Smell/taste Postevertional malaise Chronic cough Brain fog Thirst Palpitations Chest pain Fatigue Sexual desire or capacity Dizziness Gastrointestinal Abnormal movements		
<ul><li>RISK FACTORS FOR</li><li>Older</li></ul>	LONG COVID		
• Female			
Pre-existing chronic health conditions			
	Saul Rosenthal 2021		



COVID TODAY	7
COVID-19 infections as of April 2023:	
<ul> <li>WHO: 760 million cases, 7 million deaths worldwide</li> <li>CDC: 104 million cases, 1.1 million deaths in U.S.</li> </ul>	
10%-20% of COVID cases develop Long COVID	
Over 200 documented symptoms	
Saul Rocontrol 2023	

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WHAT DOES LONG COVID LOOK LIKE?	
Respiratory / Cardiac	
Gastrointestinal	
• Ear, Nose, and Throat	
Fatigue / Exercise Intolerance / Post-Exertional Malaise	
• Dysautonomia	
Cognitive and Mood	
Saul Rozentiu 2	al 2023





#### POST-COVID CARE CLINICS

- One unified guidelines or consensus statement
- Tend to start with interdisciplinary assessment
- Some are interdisciplinary, others more focused
- Approach is frequently self-care

## YALE MEDICINE

Fatigue. "'Pacing, Planning, Prioritizing, and Positioning' activities."

· Respiratory symptoms. "[B]reathing exercises, use of supplemental oxygen, and pulmonary rehabilitation"

Cardiac symptoms. "Treatment may involve cardiac rehabilitation. Medications may also be used to control specific symptoms."

Neurological symptoms. "[E]xercise and...remain physically active. [T]reatment might involve memory exercises and
the use of memory aids such as calendars and planners"

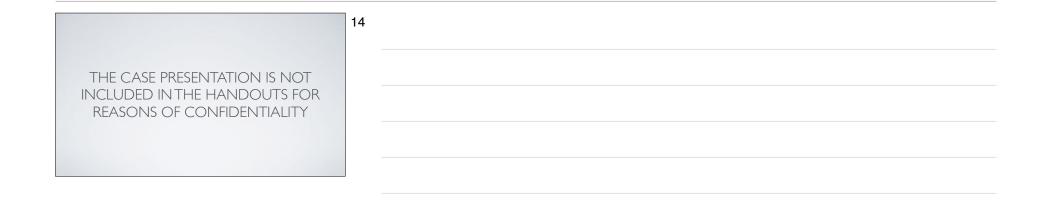
Psychological symptoms. "[C]ounseling support groups, and medications to manage depression, anxiety, or other
conditions."

• Smell and taste symptoms. "[T]opical (drops or sprays) corticosteroids. They may also perform olfactory training."

#### 12

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## FORMULATING CASES

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- Multi-system impact significantly disrupts normal function
- Flexible, multidisciplinary intervention (functional medicine, psychotherapy, applied psychophysiology)
- Interactions among long COVID, pre-existing trauma, daily life
- Expect surprises

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https://www.advancedbehavioral.care/aapb2023/	-
LONG COVID:	-
WHAT TO DO?	_
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