Long	Covid
Prog	nosis

Leonard Hock, DO, CMD

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Long Covid, The Whole Story

- Buffalo Springfield
- 1967
- "Something happening here, what it is ain't exactly clear."

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What is Long Covid

- •Symptoms that occur after Covid infection*
- •What symptoms?
- •How long after?

Names

- •Long Covid
- Post Covid
- Post Covid Condition, PCC
- Post Covid Syndrome, PCS
- Post Acute Sequelae of Covid, PASC
- And others

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Post Acute Sequalae of Covid

- Disease
- Condition
- Syndrome
- Entity

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Symptoms

- Fatigue
- Shortness of breath
- Brain fog
- •Loss of taste and smell
- Muscle aches
- •And, 200 others

How	Long	After
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- •CDC: Greater than 4 weeks after acute infection*
- •WHO: Greater than 3 months after acute infection*

How Long After?

- Symptoms that last or occur after acute stage*
- •Symptoms that persist 30, 60, 90 days or longer.
- May improve in weeks, or not.

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Long Covid Groups or Types

- Neurologic Symptoms
 - Anosmia, Brain fog, depression, fatigue
- Respiratory Symptoms
 - Shortness of breath, chest pain, fatigue
- •Systemic/inflammatory, Abdominal Symptoms
 - Myalgias, GI disorders, fatigue

Possible Causes

- •Reduced Immune System response
- •Reinfection of the virus*
- Inflammation reaction
- •Deconditioning due to illness and bedrest
- Post Traumatic Stress Disorder

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A Different Thing

- "Not just one thing, not just one condition"
- "Overlapping entities"
- "Potentially different causes"
- "Different set of risk factors and outcomes"
- "Multifaceted disease affecting every organ"
- •per Admiral Rachel Levine, HHS

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Severity of Illness

- Postulated that more severe acute illness leads to higher likelihood of Long Covid
- Modest symptoms non hospitalized can still lead to long lasting symptoms
- Non symptomatic, testing positive, can have long lasting symptoms

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- "While most people with post-Covid conditions have evidence of infection or Covid-19 illness, in some cases, a person with post-Covid conditions may not have tested positive for the virus or known they were infected."
- •CDC, "What you need to know" July 2021

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Diagnosis

- Symptomatic
- Subjective
- •No laboratory or radiographic tests
- •No physical exam findings that are conclusive
- No objective findings

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Consequences of Long Covid

- Debility, physical and cognitive
- Irritating to incapacitating
- •10%, 20%, 30% or more of acute Covid patients develop long Covid
- •LTC residents, age and fragility, at risk
- "4 million people unable to work." Harvard

Caring	for	the	Ages,	Aug.	2022
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- •LTC seeing "new"
- Heart and lung problems
- Accelerated frailty
- Functional decline
- Prolonged delirium
- •Unusual skin manifestations

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Caring for the Ages, Aug. 2022

- "not rehabbing as expected"
 - Dr. Diane Sanders-Cepeda
- •45.4% of those over 65 had 26 conditions attributed to post Covid.

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Caring for the Ages, Aug. 2022

 "Covid 19 survivors in LTC have been found to have poorer outcomes related to malnutrition, weight loss, and frailty compared to the non infected." Akber Mithani, MD

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What to do?

- Keep a watchful eye
- Document their symptoms
- Document and/or report your observations
- Address what you can
- •Use ICD-10 code; U09.9
 - Billable post Covid code

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Thank you

Leonard Hock, DO, CMD 561 714-1531