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The Unrecognized Threat: Evaluating the Global Impact of Post-Acute COVID-19 on Children and Adolescents

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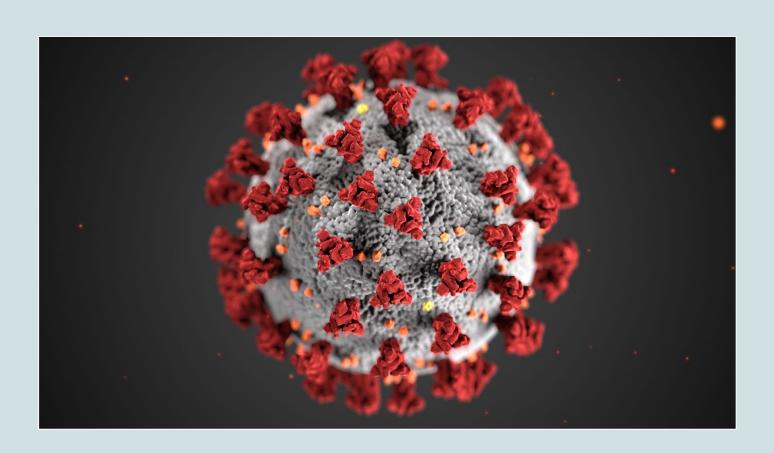
The Unrecognized Threat: Evaluating the Global Impact of Post-Acute COVID-19 Syndrome on Children and Adolescents BINGHAMTON UNIVERSITY Presenter: Abigail Sprague STATE UNIVERSITY OF NEW YORK

Introduction

Post-Acute Sequelae COVID-19 (PASC), also referred to as long covid or chronic COVID-19, Mixed-method qualitative approach: is characterized by symptoms that persist for at Interpretative phenomenological analysis and least 12 weeks following the initial onset of acute qualitative content analysis COVID-19 (Nalbendian, 2021).

The syndrome has a multi-system impact most commonly leading to symptoms such as fatigue, headaches, difficulty concentrating, anxiety disorders, and shortness of breath.

The long-term effects of COVID-19 on children and adolescents are under-reported in media and studies, and there is a widespread belief that children without pre-existing conditions are not at risk for severe complications regarding COVID-19.



Purpose

This research evaluates the impact that Post-Acute COVID-19 Syndrome (PASC) has on the youth population, highlighting the underrepresented personal experiences and demonstrating the significance of the disease through evaluation of the long-term effects of comparative pandemics; Russian Influenza and Spanish Influenza.

Methods & Materials

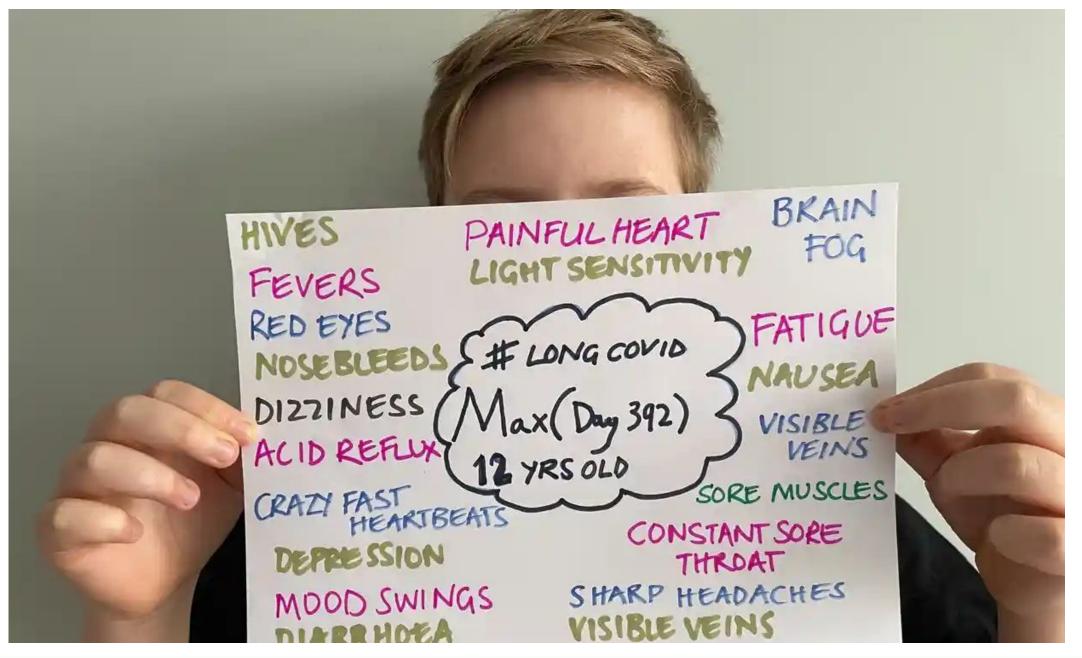
Databases: Binghamton University Libraries, Google Scholar & National Archives

Inclusion criteria: English research articles and editorials from March 2020-March 2022 * Key primary sources including letters, news articles, and blogs were utilized to supplement the research articles

Keywords: COVID-19, coronavirus, adolescents, children, Post-Acute COVID-19 Syndrome, chronic, multi-inflammatory syndrome, Russian Influenza, and Spanish Influenza, psychosis, mental health

Titles, abstracts, and author qualifications were screened

Existing literature provides a descriptive analysis of the frequency of symptoms, evaluates the impact of comorbidities and pre-existing risk factors, and investigates case studies of the virus's impact on body systems.



Hill, A. (2021). [Picture of Max, COVID-19 long hauler patient, displaying his symptoms] [Photograph]. The Guardian. https://www.theguardian.com/society/2021/may/03/its-terrifying-parents-struggle-to-get-hel p-for-children-with-long-covid

Results

•	25 studies (15 qualitative, 3
	quantitative, 7 mixed-methods)
**	N = 708,640 participants
•	3 news articles detailing Russian and
	Spanish influenza, 8 blogs detailing
	individual pediatric cases, and 1
	collection of letters from 1889
	detailing the effects of Russian
	influenza

Themes

I. Multisystemic effects Most prominently nervous, consequences that can potentially impact respiratory, and cardiovascular system involvement towards the significance of preventive **II. Symptomatology** COVID-19 measures. Fatigue, headaches, anxiety, depression, shortness of breath, Future Works weakness, and gastrointestinal Future works should continue to evaluate the problems long-term effects of PASC, investigating how **III. Future Morbidities and Risk** the virus affects children's development, Factors long-term health, and daily life. The impact of Increased probability of morbidity vaccination on the prevention of PASC should in long hauler patients also be researched. **IV. Decline in Quality of Life / Interruption of Daily Activities** Acknowledgments Inability to attend school Supported by the Binghamton University Source Limited physical activities Project and Mentorship by Sonja Kim Difficulty focusing Lack of motivation View References Utilizing QR Code Lethargy Below V. Repeated History: Similarity to long-term presentation of Russian and Spanish Influenza Patients reported depression, suicidal thoughts, and lethargy. Weakness and difficulty in

performing daily tasks

The evidence contradicts the claims that children are unaffected by COVID-19 infection demonstrating that **Post-Acute COVID-19** Syndrome (PASC) diminishes children's quality of life and can have profound future health implications.

By including personal experiences and comparison to other viral outbreaks, this study further indicates that post-COVID-19 syndrome is not a new phenomenon and can have serious children for their entire lives, raising awareness

Conclusions & Significance

