

LANKA 202

WEEKLY EPIDEMIOLOGICAL REPORT

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15th - 21st Oct 2022

This is the first article of a series

of two articles.

Introduction

Even though the majority of persons who are infected with COVID-19 infection, experience symptoms of mild to moderate severity, some (10%- 15%) develop severe disease and very few (5%) become seriously ill. Generally, patients who are infected with COVID-19 recover following 2 – 6 weeks of infection and regain normal health. For some persons, symptoms of COVID-19 persist over weeks or

months following the recovery from the acute infection even though they remain non-infectious during this period.

Definitions

There are 3 phases of the COVID-19 infection as described in the guidelines issued by the National Institute for Health and Care Excellence (UK NICE) to identify long -term consequences of COVID-19 infection.

According to it, **acute COVID-19** - can be defined as signs and symptoms of COVID-19 that last for up to 4 weeks. Persons who are suffering from signs and symptoms of COVID-19 for 4 to 12 weeks following the onset of acute symptoms are defined as **ongoing symptomatic COVID-19 disease. Post-COVID-19-syndrome** is defined as persistent COVID-19 disease in persons who are suffering from signs and symptoms for more than 12 weeks following the onset of acute symptoms, and cannot be explained by an alternative diagnosis.

The term '**long COVID-19**' includes both the ongoing symptomatic disease and post Covid-19 syndrome.



Figure 1 – Disease course of COVID-19

Prevalence of long COVID

It was found that approximately 31%–69% of COVID-19 survivors will have long COVID symptoms following initial recovery from SARS-CoV-2 infection.

Similar prevalence was observed in a study done in India where the prevalence of long COVID was found to be 29.2% (95% CI 25.3%, 33.4%) in patients who were diagnosed with SARS-COV2 infection. A high (62.5%) prevalence was found among severe cases compared to patients with mild/moderate disease whose prevalence was 23.4 %.

Symptoms

Depending on the available data, it is clear that the long COVID includes a wide range of symptoms indicating multi-organ involvement.

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According to a systematic review done, the long COVID-19 syndrome is characterized by weakness (41%), general malaise (33%), fatigue (31%), concentration impairment (26%) and breathlessness (25%). The majority (82%) of the studies reviewed there were cohort studies followed by cross-sectional (15%) and case-control (3%). However, only the studies done in Europe, Asia, North America and the Middle East were included. Studies from low and middle-income countries were not included in this review.

According to another study, the most common symptoms were fatigue (64.8%) followed by cough (32.4%).⁴ Pooled prevalence data for the symptoms of long COVID was assessed in another review. According to it, the most commonly reported symptoms were fatigue (47%), dyspnea (32%), myalgia (25%), joint pain (20%), headache (18%), cough (18%), chest pain (15%), altered smell (14%), altered taste (7%) and diarrhoea (6%).



Figure 2 – Symptoms of long COVID¹

Pathophysiology

The pathophysiology of long COVID-19 is still uncertain. It is thought that organ damage from the acute phase of the infection is likely to cause symptoms. However, specific long-lasting inflammatory mechanisms have also been proposed. The main underlying pathophysiological mechanisms include Immune dysregulation, autoimmunity, endothelial dysfunction, occult viral persistence and coagulation activation. Also, autonomic nervous system damage could account for many symptoms without clear evidence of organ damage.

Compiled By:

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Table 1 : Water Quality Surveillance Number of microbiological water samples September 2022											
District	MOH areas	No: Expected *	No: Received								
Colombo	15	90	NR								
Gampaha	15	90	NR								
Kalutara	12	72	NR								
Kalutara NIHS	2	12	NR								
Kandy	23	138	NR								
Matale	13	78									
Nuwara Eliya	13	78	NR								
Galle	20	120	NR								
Matara	17	102	NR								
Hambantota	12	72	NR								
Jaffna	12	72									
Kilinochchi	4	24	NR								
Manner	5	30									
Vavuniya	4	24									
Mullatvu	5	30									
Batticaloa	14	84	NR								
Ampara	7	42									
Trincomalee	11	66	NR								
Kurunegala	29	174	NR								
Puttalam	13	78	NR								
Anuradhapura	19	114	NR								
Polonnaruwa	7	42									
Badulla	16	96	NR								
Moneragala	11	66	NR								
Rathnapura	18	108	NR								
Kegalle	11	66	I								

* No of samples expected (6 / MOH area / Month) NR = Return not received

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Table 2: Vaccine-Preventable Diseases & AFP

15th- 21st Oct 2022

08th- 14th Oct 2022 (41st Week)

Disease		N	lo. of	Case	es by	y Pro	ovino	Number of cases during current	Number of cases during same	Total number of cases to	Total num- ber of cases to date in	Difference between the number of			
	w	С	S	N	Е	NW	NC	U	Sab	week in 2022	week in 2021	2022	2021	in 2022 & 2021	
AFP*	01	00	00	00	00	00	00	01	00	02	00	65	51	21.5 %	
Diphtheria	00	00	00	00	00	00	00	00	00	00	00	00	00	0 %	
Mumps	00	00	01	00	00	00	00	00	00	01	03	73	62	17.7 %	
Measles	00	00	00	00	00	00	00	00	00	00	00	19	11	72.7 %	
Rubella	00	00	00	00	00	00	00	00	00	00	00	00	00	0 %	
CRS**	00	00	00	00	00	00	00	00	00	00	00	00	00	0 %	
Tetanus	00	00	00	00	00	00	00	00	00	00	01	05	03	66.6 %	
Neonatal Tetanus	00	00	00	00	00	00	00	00	00	00	00	00	00	0 %	
Japanese En- cephalitis	00	00	00	00	00	00	00	00	00	00	00	01	04	- 75 %	
Whooping Cough	00	00	00	00	00	00	00	00	00	00	00	01	00	0 %	
Tuberculosis	00	05	05	10	10	04	00	11	14	59	242	5314	4044	31.4 %	

Key to Table 1 & 2

Provinces: W: Western, C: Central, S: Southern, N: North, E: East, NC: North Central, NW: North Western, U: Uva, Sab: Sabaragamuwa.

RDHS Divisions: CB: Colombo, GM: Gampaha, KL: Kalutara, KD: Kandy, ML: Matale, NE: Nuwara Eliya, GL: Galle, HB: Hambantota, MT: Matara, JF: Jaffna, KN: Killinochchi, MN: Mannar, VA: Vavuniya, MU: Mullaitivu, BT: Batticaloa, AM: Ampara, TR: Trincomalee, KM: Kalmunai, KR: Kurunegala, PU: Puttalam, AP: Anuradhapura, PO: Polonnaruwa, BD: Badulla, MO: Moneragala, RP: Ratnapura, KG: Kegalle.

Weekly Return of Communicable Diseases: Diphtheria, Measles, Tetanus, Neonatal Tetanus, Whooping Cough, Chickenpox, Meningitis, Mumps., Rubella, CRS, Special Surveillance: AFP* (Acute Flaccid Paralysis), Japanese Encephalitis

CRS** =Congenital Rubella Syndrome

NA = Not Available

Influenza Surveillance in Sentinel Hospitals - ILI & SARI													
Month	Human		Animal										
Month	No Total	No Positive	Infl A	Infl B	Pooled samples	Serum Samples Positive							
September													
Source: Medical Research Institute & Veterinary Research Institute													

Comments and contributions for publication in the WER Sri Lanka are welcome. However, the editor reserves the right to accept or reject items for publication. All correspondence should be mailed to The Editor, WER Sri Lanka, Epidemiological Unit, P.O. Box 1567, Colombo or sent by E-mail to chepid@sltnet.lk. Prior approval should be obtained from the Epidemiology Unit before publishing data in this publication

ON STATE SERVICE

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Data Sources: