

Supplementary Materials “High Prevalence of Undocumented SARS-CoV-2 Infections in the Pediatric Population of the Tyrolean District of Schwaz”

Supplementary File S1. Questionnaire (English translation)

Questionnaire

Characterization of SARS-CoV-2 antibody response among individuals between the 2nd and 16th year of life in the district of Schwaz

Have you been diagnosed with a SARS-CoV-2 infection?

Yes No

If yes, when _____

If yes: how was the infection confirmed: by PCR by antibody testing

Were you diagnosed with a variant of concern (VOC)?

Yes Which one? _____

No Unknown

Did you experience any symptoms?

Yes No

If yes, which: Cough Fever Difficulty breathing Sore throat Dysgeusia/

Loss of taste or smell Abdominal pain/ Diarrhea Other: _____

If yes, did your illness cause you to be bedridden for 3 or more days?

Yes No

Did you have to be admitted to hospital for a SARS-CoV-2 infection?

Yes (to ICU) Yes (non-ICU) No

Has anyone living in the same household had a SARS-CoV-2 infection?

Yes Who? _____ When (Date)? _____ No

Has anyone living in the same household been vaccinated? Yes No Don't know?

If yes: when? _____

With which vaccine? AstraZeneca BioNTec-Pfizer Moderna Biotech Don't know

Would you get (your child) vaccinated if there was an approved vaccine?

Yes No Don't know?

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Supplementary Table S1. Pediatric data by serostatus.

Total seropositives (%)	Seropositives n=132 (35.8)	Seronegatives n=237 (64.2)
Confirmed cases^s (%)	53 (40.2)	2 (0.8)
Anti-S positive	53 (100)	
Anti-N positive	51 (96.2)	
Neutralizing antibodies	45 (84.9)	
No history of infection	79 (59.8)	235 (99.2)
Anti-S positive	78 (98.7)	
Anti-N positive	68 (86.1)	
Neutralizing antibodies	67 (84.8)	
Symptoms (%)	58 (43.9)	44 (18.4)
Fever	31 (23.5)	23 (9.7)
Cough	26 (19.7)	26 (11.0)
Disgeusia/Loss of taste or smell	17 (12.9)	1 (0.4)
Sore throat	16 (12.1)	13 (5.5)
Abdominal pain/Diarrhea	5 (3.8)	3 (1.3)
Difficulty breathing	3 (2.3)	3 (234)
Other	28 (21.2)*	20 (8.4)**
Asymptomatic infection	74 (56.1)	193 (81.4)
Bedridden for ≥3 days	9 (6.8)	14 (5.9)
Hospital admission	0 (0.0)	1 (0.4)
History of household infections	91 (68.9)	48 (20.3)
Anti-S antibody status		
Mean (SD)	94.5 (74.7)	
Geometric Mean (SD)	0.0 (74.7)	
Median (IQR)	72.1 (42.1-131.3)	
Anti-N antibody status		
Mean (SD)	58.4 (63.6)	
Geometric Mean (SD)	21.9 (63.6)	
Median (IQR)	36.9 (12.8-76.6)	
Neutralizing antibody status		
Mean (SD)	65.4 (61.2)	
Geometric Mean (SD)	0.0 (61.2)	
Median (IQR)	47.0 (24.3-96.2)	

^sSelf reported PCR-confirmed

*Fatigue(19); Headache(12); Joint/limb pain(6); Eye pain, Nausea/Vomiting, Runny nose(2); Vertigo(1)

**Headache(10); Fatigue(6); “Flu-like”, Runny nose/rhinitis(4); Vomiting, Sweats, Laryngitis(1)

SD= standard deviation, IQR= interquartile range