

SARSLIVA

Date: 21-01-2021

These results describe the data on the SARS-CoV-2 RT-PCR and MLPA analyses performed on the NP and OP swabs of day 7, both index patients and household members.

In total, 614 swabs were analyzed (308 NP and 306 OP swabs). Results are presented for index patients and household members separately. Additional analyses were performed to evaluate the differences between children and adults.

Table 1. NP swab day 7 results for index patients and household members.

Characteristics and results	Index patients (n = 83)	Household members (n = 225)
Age, mean (SD)	36.9 (14.3)	28.2 (18.0)
Age groups, n (%)		
< 12 years	1 (1.2)	50 (22.2)
12-17 years	16 (19.3)	47 (20.9)
18-29 years	9 (10.8)	28 (12.4)
30-39 years	16 (19.3)	16 (7.1)
40-49 years	25 (30.1)	51 (22.7)
50-59 years	15 (18.1)	31 (13.8)
60-69 years	1 (1.2)	2 (0.9)
Female sex, n(%)	55 (66.3)	90 (40.0)
NP swab results	n = 83	n = 225
SARS CoV-2 PCR, n (%)	45 (54.2)#	71 (31.6)#
Cp-value (viral load), median [IQR]	33.6 [6.1]#	30.5 [7.2]#
MLPA		
Rhinovirus, n (%)	3 (3.6)	30 (13.3)
Adenovirus, n (%)	1 (1.2)	6 (2.7)
Bocavirus, n (%)	-	5 (2.2)
Legionella pneumophila, n (%)	-	1 (0.4)
OP swab results*	n = 83	n = 223
SARS CoV-2 PCR, n (%)	34 (41.0)#	57 (25.6)#
Cp-value (viral load), median [IQR]	33.9 [3.7]#	32.6 [5.3]#
MLPA		
Rhinovirus, n (%)	5 (6.0)	23 (10.3)
Adenovirus, n (%)	-	4 (1.8)
Bocavirus, n (%)	-	-
Legionella pneumophila, n (%)	-	-

Data are presented as No. (%) or as otherwise indicated. SD = standard deviation. IQR=interquartile range. Cp-value=crossing point value. *Data on OP swabs were available for 306 participants in total. # Significant differences between index patients and household members (p<0.05).

Double infections (SARS-CoV-2 positive with at least one other pathogen) were found in 8 NP swabs from household members. This considered 3 members with an additional Rhinovirus, 3 with a Bocavirus, and 2 with an Adenovirus.

Double infections (SARS-CoV-2 positive with at least one other pathogen) were found in 4 OP swabs from household members. This considered 3 members with an additional Rhinovirus, and 1 with an Adenovirus.

Table 2. NP and OP SARS-CoV-2 RT-PCR swab day 7 results for index patients and household members.

	Index patients (n=83)			Household members (n=225)		
	< 18 years (n=17)	≥ 18 years (n=66)	p-value	< 18 years (n=97)	≥ 18 years (n=128)	p-value
NP swabs						
SARS CoV-2 PCR, n (%)	10 (58.8)	35 (53.0)	0.669	28 (28.9)	43 (33.6)	0.450
Cp-value, median (IQR)	34.2 (3.3)	33.1 (6.7)	0.162	29.5 (8.1)	30.6 (6.6)	0.888
OP swabs*						
SARS CoV-2 PCR, n (%)	8 (47.1)	26 (39.4)	0.567	21 (21.9)	36 (28.3)	0.273
Cp-value, median (IQR)	35.0 (6.7)	33.2 (3.6)	0.152	30.7 (5.0)	33.3 (5.2)	0.227

Data are presented as n (%) or as otherwise indicated. SD = standard deviation. IQR= interquartile range. P-values reflect Pearson Chi-square results (proportions) or Mann-Whitney U-tests (medians).

*OP swabs were available for 223 Household members only (96 aged <18 years; 127 aged ≥ 18 years).

Table 3. Cp-value characteristics in day 7 NP swabs for different age groups in index patients and household members.

Age groups	Index patients						Household members					
	No. tested (%)	No. positive (%)	Cp-value (IQR)	Cp < 25 No. (%)	Cp 25-30 No. (%)	Cp >30 No. (%)	No. tested (%)	No. positive (%)	Cp-value (IQR)	Cp < 25 No. (%)	Cp 25-30 No. (%)	Cp >30 No. (%)
<12 year	1 (1.2)	0 (0)	-	-	-	-	50 (22.2)	11 (22.0)	28.7 (7.7)	2 (18.2)	6 (54.5)	3 (27.3)
12-17 year	16 (19.3)	10 (62.5)	34.2 (3.3)	-	1 (10.0)	9 (90.0)	47 (20.9)	17 (36.2)	33.8 (7.4)	3 (17.6)	4 (23.5)	10 (58.8)
18-29 year	9 (10.8)	5 (55.6)	32.3 (5.1)	-	2 (40.0)	3 (60.0)	28 (12.4)	11 (39.3)	30.9 (3.6)	1 (9.1)	3 (27.3)	7 (63.6)
30-39 year	16 (19.3)	8 (50.0)	31.9 (7.6)	-	3 (37.5)	5 (62.5)	16 (7.1)	8 (50.0)	30.6 (6.4)	-	3 (37.5)	5 (62.5)
40-49 year	25 (30.1)	13 (52.0)	34.0 (5.8)	-	3 (23.1)	10 (76.9)	51 (22.7)	18 (35.3)	27.9 (9.8)	5 (27.8)	6 (33.3)	7 (38.9)
50-59 year	15 (18.1)	8 (53.3)	32.3 (9.7)	-	3 (37.5)	5 (62.5)	31 (13.8)	6 (19.4)	31.4 (10.0)	-	2 (33.3)	4 (66.7)
60-69 year	1 (1.2)	1 (100.0)	-	-	1(100.0)	-	2 (0.9)	0 (0)	-	-	-	-
Total	83 (100.0)	45 (54.2)	33.6 (6.1)	1 (2.2)	12 (26.7)	32 (71.1)	225 (100.0)	71 (31.6)	30.5 (7.2)	11 (15.5)	24 (33.8)	36 (50.7)

Data are presented as No. (%) or median (IQR). IQR=interquartile range;

Table 4. Cp-value characteristics in day 7 OP swabs for different age groups in index patients and household members.

Age groups	Index patients						Household members					
	No. tested	No.	Cp-value	Cp < 25	Cp 25-30	Cp>30	No. tested	No.	Cp-value	Cp < 25	Cp 25-30	Cp>30
	(%)	positive (%)	(IQR)	No. (%)	No. (%)	No. (%)	(%)	positive (%)	(IQR)	No. (%)	No. (%)	No. (%)
<12 year	1 (1.2)	0 (0)	-	-	-	-	53 (23.8)	9 (17.0)	31.9 (3.6)	-	2 (22.2)	7 (77.8)
12-17 year	16 (19.3)	8 (50.0)	35.0 (6.7)	-	1 (12.5)	7 (87.5)	43 (19.3)	12 (27.9)	30.4 (5.6)	1 (8.3)	4 (33.3)	7 (16.3)
18-29 year	9 (10.8)	3 (33.3)	35.0 (-)	-	-	3 (100.0)	28 (12.6)	9 (32.1)	33.1 (2.6)	1 (11.1)	1 (11.1)	7 (77.8)
30-39 year	16 (19.3)	10 (62.5)	32.9 (3.4)	-	1 (10.0)	9 (90.0)	16 (7.2)	8 (50.0)	34.2 (5.4)	-	2 (25.0)	6 (75.0)
40-49 year	25 (30.1)	8 (32.0)	33.9 (3.2)	-	1 (12.5)	7 (87.5)	51 (22.9)	14 (27.5)	32.1 (5.4)	1 (7.1)	5 (35.7)	8 (57.1)
50-59 year	15 (18.1)	4 (26.7)	32.2 (6.7)	-	-	4 (100.0)	30 (13.5)	5 (16.7)	29.2 (10.7)	1 (20.0)	2 (40.0)	2 (40.0)
60-69 year	1 (1.2)	1 (100.0)	-	1 (100)	-	-	2 (0.9)	0 (0)	-	-	-	-
Total	83 (100.0)	34 (41.0)	33.9 (3.7)	1 (2.9)	3 (8.8)	30 (88.2)	223 (100.0)	57 (25.6)	32.6 (5.3)	4 (7.0)	16 (28.1)	37 (64.9)

Data are presented as No. (%) or median (IQR). IQR=interquartile range;