

Supplementary materials

Supplementary Table S1. List of primers and probes

Targeted viruses	Forward primer	Reverse primer	Probe	Fluorophore ¹	Target gene / Access number- GenBank	Reference
Adenovirus-pan	GCCACGGTGGGGTTTCTAACTT	GCCCCAGTGGTCTTACATGCACATC	TGCACCAGACCCGGGCTCAGGTACTCCGA	FAM-BHQ1	Hexon/ J01917	Elfving K, 2014
Adenovirus 40/41 ²	TGCCCGCGCCACCGAT	GAGCCACAGTGGGGTTTCTG	CCAGGCTGAAGTACG	FAM-BHQ1	Hexon/ X51782	Elfving K, 2014
Rotavirus	(1) AACCATCTACATGACCCTCTATGA (2) AACCATCTTCAGTAACCCTCTATGA	GGTCACATAACGCCCTATAGC	CAATAGTTAAAAGCTAACACTGTCAA	FAM-TAMRA	Nonstructural protein 3 (NSP3) / X81436	Elfving K, 2014
Astrovirus	GACTGCWAAGCAGCTTCGTGA	GCTAGCCATCACACTTCTTTGGTCCT	TCACAGAAGAGCAACTCCATCGCATTG	Cy5-BHQ1	Pol-capsid junction/ NC_001943	Elfving K, 2014
Norovirus GII	TGGAYTTTTAYGTGCCAG	CGACGCCATCTTCATTCAC	AGCCAGATTGCGATCGCCC	VIC-BHQ1	Pol-capsid junction/ X86557	Elfving K, 2014

¹probe labeled with fluorophores: FAM, 6-carboxyfluorescein; VIC, 4,7,2-trichloro-7-phenyl-6-carboxyfluorescein; Cy5, 1,1'-dimethyl-3,3',3'-tetramethylindocarbocyanine; TAMRA, 6-carboxytetramethylrhodamine; BHQ1, Black Hole Quencher 1.

² Run separately as a complementary analysis.

Supplementary Table S2. Association of the growth status of children with adenovirus type F40/41 infection.

	NS or controls (N=111)	MS (N=47)	SS (N=41)	Overall (N=199)	<i>p-value*</i>
Adenovirus type40/41					0.72
No	96 (86.5%)	43 (91.5%)	37 (90.2%)	176 (88.4%)	
Yes	15 (13.5%)	4 (8.5%)	4 (9.8%)	23 (11.6%)	

NS or controls: Non-stunted; MS: moderately stunted; SS: severely stunted; N: total number of samples analyzed; Comparison between groups (controls and stunted children MS+SS) were determined using Fisher's exact test according to their conditions of use. *A p-value < 0.05 was considered statistically significant

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Supplementary Table S3. Correlation of adenovirus non-type F40/41 carriage with clinical symptoms observed in the study population (N=251).

	Adenovirus detection			<i>p</i> -value
	No (N=159)	Yes (N=92)	Total (N=251)	
	n (%)/median [IQR]	n (%)/median [IQR]	n/median [IQR]	
Age				0.540 ¹
Median	44.3 [34.8. 53.1]	43.4 [32.8. 52.3]	43.2 [33.6. 52.9]	
Growth status				0.466 ²
Non-stunted	52 (38.8)	82 (61.2)	134	
Moderately stunted	19 (30.1)	44 (69.8)	63	
Severely stunted	21 (38.9)	33 (61.1)	54	
Stuffy nose				0.111 ²
Yes	84 (68.3)	39 (31.7)	123	
No	75 (58.6)	53 (41.4)	128	
Rhinorrhea				0.066 ²
Yes	105 (67.7)	50 (32.2)	155	
No	54 (56.3)	42 (43.7)	96	
Cough				0.102 ²
Yes	63 (70.0)	27 (30.0)	90	
No	96 (59.6)	65 (40.4)	161	

¹ Chi square-test. ² Wilcoxon-Mann-Whitney test.

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Supplementary Table S4. Sensitivity and specificity of the final model.

Predicted	Actual	
	No	Yes
No	113	77
Yes	36	78

Sensitivity of the model: 50.3%, IC 95% (42.2 - 58.4); Specificity of the model: 75.8%, IC 95% (68.2 - 82.5)

Supplementary Table S5. Bivariate analysis of risk factors statistically associated with viral carriage (p-value < 0.20).

[illegible]