

Supplementary material

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Table S1. ICD9-CM diagnosis codes used for classification.

Diagnosis	ICD9-CM code
Pneumonia	481 Pneumococcal pneumonia [Streptococcus pneumoniae pneumonia], 482 Other bacterial pneumonia 483 Pneumonia due to other specified organism 484 Pneumonia in infectious diseases classified elsewhere, 485 Bronchopneumonia, organism unspecified, 486 Pneumonia, organism unspecified
Pharyngitis	462 Acute pharyngitis 463 Acute tonsillitis, 034 Streptococcal sore throat and scarlet fever
Sinusitis	461 Acute sinusitis 473 Chronic sinusitis
Suppurative otitis media	382 Suppurative and unspecified otitis media
Non-suppurative otitis media	381: Non-suppurative otitis media and Eustachian tube disorders
Upper respiratory tract infection	464 Laryngitis- tracheitis 460.x Upper respiratory tract infection
Lower respiratory tract infection	490 Acute bronchitis 466 Bronchiolitis 491 Chronic bronchitis

Table S2. OM-85 prescription patterns in 1091 children included. Pedianet 2007-2017.

# of OM-85 prescriptions	N	(%)
1	876	80.29
2	159	14.57
3	36	3.3
≥4	20	1.83

Table S3. Antibiotic prescriptions frequency in 221 children with recurrent RTI included in the PRE and POST period. Pedianet, 2007-2017.

# of antibiotic prescriptions	PRE		POST		p-value*
	N	(%)	N	(%)	
Mean (SD)	4.1	(1.3)	2.9	(1.7)	< 0.0001
0	5	(2.4)	24	(11.4)	
1	8	(3.8)	33	(15.6)	
2	14	(6.6)	34	(16.1)	
3	33	(15.6)	34	(16.1)	
4	25	(11.9)	29	(13.7)	
≥ 5	126	(59.7)	57	(27)	

* Post-hoc test

Table S4. Antibiotic prescriptions pattern in 221 children with recurrent RTI included in the PRE and POST period. Pedianet, 2007-2017.

Antibiotic class	PRE		POST		p-value*
	N	(%)	N	(%)	
Co-amoxiclav	315	(27.02)	205	(26.32)	0.6134
Amoxicillin	297	(25.47)	194	(24.9)	
Macrolides	206	(17.67)	126	(16.18)	
III gen cephalosporins	186	(15.95)	131	(16.81)	
II gen cephalosporins	107	(9.18)	84	(10.79)	
Clofoctol	14	(1.2)	16	(2.05)	
Tiamphenicole	21	(1.8)	14	(1.8)	
Others	20	(1.71)	9	(1.17)	
Total	1166		779		

* Chi-square test

Table S5. RTI frequency in 221 children with recurrent RTI included in the PRE and POST period.

Pedianet, 2007-2017.

# of RTI	PRE		POST		p-value*
	N	%	N	%	
Mean (std)	8.17	(2.47)	4.48	(3.39)	< 0.0001
≤5	-	-	153	(72.51)	
6	59	(27.96)	16	(7.58)	
7	51	(24.17)	7	(3.32)	
8	34	(16.11)	10	(4.74)	
≥9	67	(31.76)	25	(11.84)	

* Post-hoc test

Table S6. Antibiotic prescriptions frequency in the PRE and POST period by sex. Pedianet, 2007-2017.

Mean (std)	Male				Female			
	2.5	(1.8)	1.9	(1.7)	2.3	(1.8)	1.8	(1.7)
0	109	(18.8)	141	(24.4)	105	(20.5)	143	(27.9)
1	101	(17.4)	142	(24.5)	91	(17.8)	129	(25.2)
2	94	(16.2)	106	(18.3)	97	(19)	82	(16)
3	75	(13)	72	(12.4)	70	(13.7)	51	(10)
4	73	(12.6)	44	(7.6)	46	(9)	37	(7.2)
≥5	127	(21.9)	74	(12.8)	103	(20.1)	70	(13.7)
p-value	< 0.0001				< 0.0001			

Table S7. RTI frequency in the PRE and POST period by sex. Pedianet, 2007-2017.

Mean (std)	Male				Female			
	2.9	(1.8)	2.3	(1.7)	2.7	(1.7)	2.1	(1.7)
0	70	(12.1)	107	(18.5)	65	(12.7)	107	(20.9)
1	93	(16.1)	127	(21.9)	89	(17.4)	127	(24.8)
2	70	(12.1)	105	(18.1)	84	(16.4)	87	(17)
3	104	(18)	82	(14.2)	85	(16.6)	69	(13.5)
4	60	(10.4)	60	(10.4)	62	(12.1)	47	(9.2)
≥5	182	(31.4)	98	(16.9)	127	(24.8)	75	(14.7)
p-value	< 0.0001				< 0.0001			