

Supplementary tables

Baseline characteristics and clinical symptoms related to respiratory viruses identified among patients presenting with influenza-like illness in primary care

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Table S1. Clinical characteristics associated with four respiratory virus classes among three subgroups (patients <5 y, patient between 5 and 14 y and patients ≥15 y) of patients seen by physicians of the Sentinelles network for influenza-like illness, multivariate analyses, seasons 2015/16 and 2016/17, France

	Young children only (<5 y)		Older children only (5-14 y)		Adults only (≥ 15 y)	
	OR [95%CI]	p-value	OR [95%CI]	p-value	OR [95%CI]	p-value
Influenza virus						
Number of patients (n cases/N total)	641/1917		675/1098		1480/2806	
Cough	NS		2.21 [1.59;3.07]	$<10^{-5}$	3.22 [2.48;4.2]	$<10^{-5}$
Headache	1.88 [1.47;2.42]	$<10^{-5}$	NS		NS	
Rhinorrhoea	NS		1.49 [1.11;2]	0.007	1.27 [1.06;1.53]	0.011
Dyspnoea	0.35 [0.21;0.58]	$<10^{-4}$	0.37 [0.17;0.8]	0.012	0.67 [0.52;0.85]	0.001
Conjunctivitis	1.43 [1.06;1.92]	0.019	1.53 [1.03;2.29]	0.035	NS	
Period onset of symptoms	$<10^{-5}$		$<10^{-5}$		$<10^{-5}$	
Before influenza epidemic	0.07 [0.05;0.09]		0.12 [0.09;0.17]		0.14 [0.11;0.17]	
During influenza epidemic	-*		-*		-*	
After influenza epidemic	0.2 [0.13;0.3]		0.19 [0.12;0.31]		0.4 [0.31;0.52]	
Influenza vaccination (for current season)	NS		NS		0.66 [0.51;0.87]	0.002
Respiratory syncytial virus						
Number of patients (n cases/N total)	323/1917		33/1098		81/2844	
Cough	4.59 [2.79;8.1]	$<10^{-5}$	NS		NS	
Headache	0.52 [0.36;0.74]	$<10^{-3}$	NS		0.54 [0.34;0.89]	0.017
Rhinorrhoea	NS		2.31 [1;6.27]	0.049	1.78 [1.02;3.31]	0.042
Dyspnoea	3.39 [2.34;4.89]	$<10^{-5}$	NS		NS	
Sore throat	NS		NS		1.67 [1.03;2.8]	0.037
Period onset of symptoms	$<10^{-5}$		$<10^{-3}$		$<10^{-3}$	
Before influenza epidemic	4.03 [3.08;5.32]		4.53 [2.14;9.74]		2.52 [1.58;4]	
During influenza epidemic	-*		-*		-*	
After influenza epidemic	1.19 [0.64;2.08]		3.09 [0.85;9.02]		0.77 [0.26;1.79]	
Human metapneumovirus						
Number of patients (n cases/N total)	125/1917		31/1098		86/2844	
Cough	2.22 [1.25;4.31]	0.005	4.5 [1.33;28.12]	0.012	NS	
Headache	0.49 [0.27;0.81]	0.005	NS		NS	
Vomiting	NS		NS		0.35 [0.09;0.95]	0.038
Period onset of symptoms	$<10^{-3}$		0.001		0.045	
Before influenza epidemic	1.68 [1.13;2.51]		3.73 [1.68;8.26]		1.68 [1.01;2.72]	
During influenza epidemic	-*		-*		-*	
After influenza epidemic	3.27 [1.84;5.63]		4.18 [1.31;11.49]		1.87 [0.96;3.4]	
Human rhinovirus						
Number of patients (n cases/N total)	239/1917		44/1098		179/2844	
Rhinorrhoea	1.65 [1.08;2.63]	0.021	NS		2.19 [1.48;3.34]	$<10^{-4}$
Headache	NS		0.5 [0.27;0.94]	0.032	NS	
Diarrhoea	NS		NS		0.18 [0.03;0.57]	0.001
Period onset of symptoms	$<10^{-5}$		0.003		$<10^{-5}$	
Before influenza epidemic	2.62 [1.96;3.52]		2.78 [1.4;5.41]		4.59 [3.32;6.36]	
During influenza epidemic	-*		-*		-*	
After influenza epidemic	1.9 [1.12;3.09]		3.39 [1.3;7.92]		1.51 [0.84;2.57]	

*Reference group, NS: non significant, OR: odd ratio, 95%CI: 95% confidence interval

For each virus and each age-subgroup, an independent multivariate regression analysis was performed considering the whole study population (i.e. whatever the virological result, positive or negative).

Table S2. Clinical characteristics associated laboratory confirmation of influenza viruses or three other respiratory virus classes (respiratory syncytial virus, rhinovirus, metapneumovirus) considering different reference groups among patients seen by physicians of the Sentinelles network for influenza-like illness, multivariate analyses, seasons 2015/16 and 2016/17, France

	Influenza virus vs. negative^a <i>(n cases/N total = 2758/4627)</i>		Influenza virus vs. other respiratory viruses^b <i>(n cases/N total = 2797/3932)</i>		Any respiratory virus vs. negative^c <i>(n cases/N total = 3877/5746)</i>	
	OR [95%CI]	p-value	OR [95%CI]	p-value	OR [95%CI]	p-value
Cough	2.71 [2.28;3.23]	<10 ⁻⁵	NS		2.65 [2.28;3.09]	<10 ⁻⁵
Headache	NS		1.65 [1.36;2.01]	<10 ⁻⁵	NS	
Rhinorrhoea	1.41 [1.21;1.64]	<10 ⁻⁵	0.7 [0.56;0.87]	10 ⁻³	1.51 [1.32;1.73]	<10 ⁻⁵
Dyspnoea	0.63 [0.5;0.8]	<10 ⁻³	0.49 [0.37;0.65]	<10 ⁻⁵	NS	
Conjunctivitis	1.26 [1.05;1.52]	0.014	1.36 [1.08;1.73]	<10 ⁻²	NS	
Period onset of symptoms		<10 ⁻⁵		<10 ⁻⁵		<10 ⁻⁵
Before influenza epidemic	0.13 [0.11;0.15]		0.08 [0.07;0.1]		0.36 [0.32;0.41]	
During influenza epidemic	_*		_*		_*	
After influenza epidemic	0.3 [0.24;0.37]		0.28 [0.21;0.38]		0.4 [0.33;0.49]	
Age group (years)		<10 ⁻⁵		<10 ⁻⁵		<10 ⁻⁵
< 5	0.86 [0.7;1.05]		0.25 [0.18;0.34]		1.72 [1.43;2.05]	
5-14	1.74 [1.39;2.16]		1.11 [0.78;1.57]		1.76 [1.44;2.15]	
15-29	1.1 [0.88;1.38]		0.94 [0.65;1.36]		1.14 [0.93;1.41]	
30-44	_*		_*		_*	
45-64	1.21 [0.96;1.54]		0.67 [0.47;0.95]		1.36 [1.1;1.68]	
>=65	1.87 [1.32;2.64]		0.61 [0.39;0.93]		1.96 [1.44;2.69]	
Influenza vaccination for current season	0.57 [0.43;0.76]	<10 ⁻³	NS		0.62 [0.48;0.81]	<10 ⁻³

*Reference group, NS: non significant, OR: odd ratio, 95%CI: 95% confidence interval

^a Multivariate logistic regression with influenza virus detection as outcome, considering only patients positive for IV (e.g. cases) or negative for all virus classes studied (e.g. controls) from the study population.

^b Multivariate logistic regression with influenza virus detection as outcome, considering only the patients positive for IV (e.g. cases) or positive for any of the three other respiratory (e.g. controls) from the study population.

^c Multivariate logistic regression with a positive detection for any of the four studied virus classes as outcome, considering the whole study population.