

Epidemiological Reports

Influenza and influenza-like illness in Poland

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Chief Sanitary Inspectorate • Department for Communicable Disease and Infection Prevention and Control

Year: 2018

Month: January

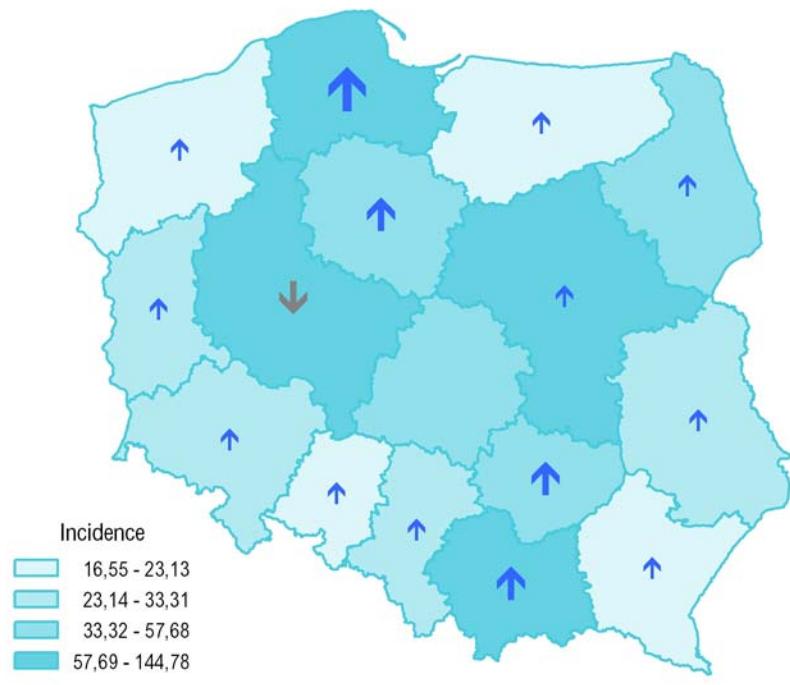
Number: 1B (2)

Period: 8 – 15 January

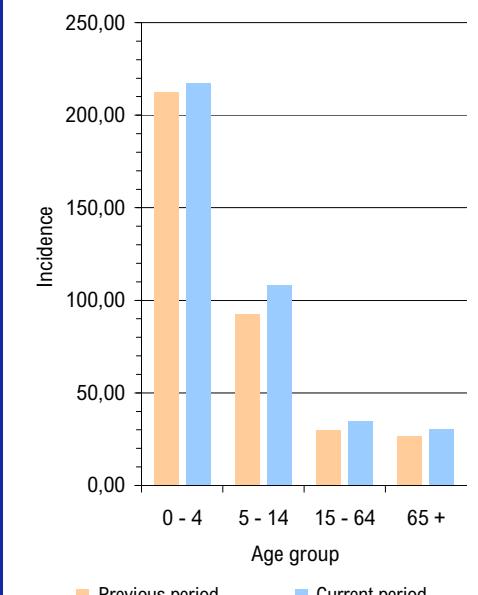
Cases of influenza and influenza-like illness between 8 and 15 January 2018 by age group and voivodeship

Voivodeship	Total number of cases and incidence			Age (completed years)							
	number	incidence ¹⁾	change in incidence ^{2,3)}	0 – 4		5 – 14		15 – 64		65+	
				number	incidence ¹⁾	number	incidence ¹⁾	number	incidence ¹⁾	number	incidence ¹⁾
POLAND	155734	50,67	5,85	32866	217,51	33867	108,27	73315	34,95	15686	30,63
Dolnośląskie	6707	28,89	3,86	1216	112,35	1273	57,27	3298	20,75	920	22,88
Kujawsko-Pomorskie	9611	57,68	12,27	2054	259,00	2324	135,18	4444	38,82	789	29,18
Lubelskie	5368	31,51	4,86	716	90,84	1132	66,13	2849	24,53	671	22,98
Lubuskie	2099	25,81	5,49	487	124,32	667	78,99	802	14,30	143	11,10
Łódzkie	7426	37,43	-0,01	1677	185,46	1555	81,80	3174	23,77	1020	27,69
Małopolskie	20007	73,86	15,60	4179	293,61	3895	136,01	10195	55,14	1738	40,30
Mazowieckie	28696	66,76	3,38	6020	259,87	6372	139,67	13565	47,06	2739	37,63
Opolskie	1312	16,55	3,04	203	59,67	160	22,61	746	13,55	203	14,77
Podkarpackie	2910	17,10	1,37	469	57,53	732	41,63	1365	11,58	344	12,94
Podlaskie	3370	35,54	8,12	754	171,08	715	77,23	1549	23,70	352	22,28
Pomorskie	26868	144,78	32,18	6606	654,02	6149	300,20	11717	92,89	2396	83,05
Śląskie	12132	33,31	1,89	2554	149,17	2262	65,03	6049	24,38	1267	19,74
Świętokrzyskie	3391	33,92	12,77	579	135,35	727	76,70	1675	24,58	410	22,69
Warmińsko-Mazurskie	2655	23,13	1,96	439	80,45	593	49,00	1244	15,54	379	22,06
Wielkopolskie	20179	72,38	-7,47	4360	291,25	4645	153,36	9263	48,63	1911	44,36
Zachodniopomorskie	3003	22,00	5,52	553	88,91	666	49,31	1380	14,65	404	17,86

Incidence ¹⁾ between 8 and 15 January 2018 in comparison to the previous reporting period ³⁾ by voivodeship



Incidence ¹⁾ between 8 and 15 January 2018 and in the previous reporting period ³⁾ by age group

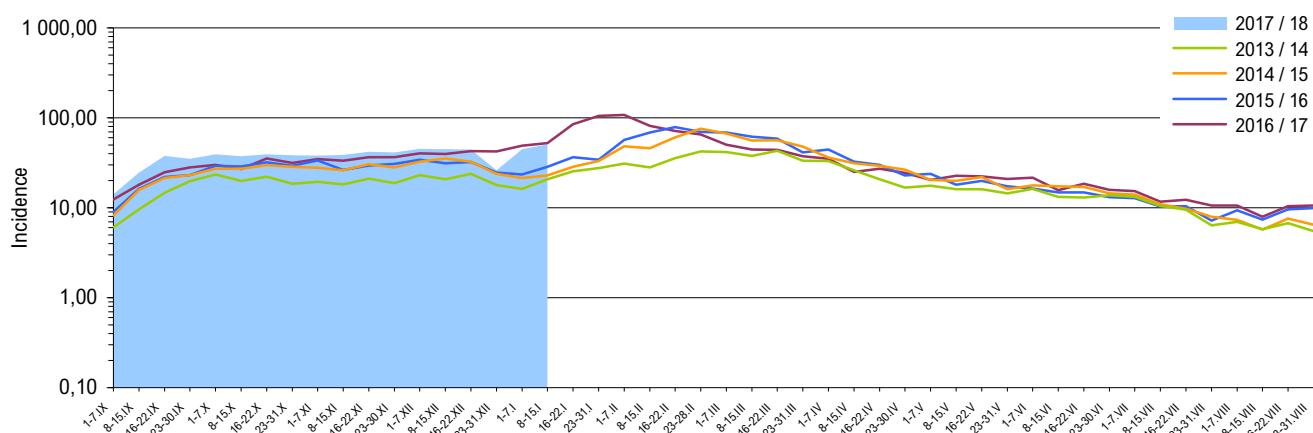


Symbols used in tables and figures: Dash (-) event did not occur ("zero"); **Zero (0,0)** event occurred, but in numbers that could not be expressed in digits demonstrated in the table; **Dot (.)** complete lack of information or lack of credible information; **Letter x (x)** considering a layout of the table, filling in of the cell is not possible or inadvisable ("not applicable"); **Comma (,)** represents the decimal point.

Notes:

- Mean daily incidence per 100 000 population (as of 30 June 2017).
- In comparison with the previous reporting period.
- Previous reporting period: 1 - 7 January 2018.

Influenza and influenza-like illness incidence¹⁾ in the epidemic season 2017/2018 when compared with the previous seasons according to the periodical reports



Vaccination against influenza

Vaccination is the most effective way to prevent infection and severe outcomes caused by influenza viruses.

Vaccination is especially important for people at higher risk of serious influenza complications, and for people who live with or care for high risk individuals.

WHO recommends seasonal influenza vaccination for:

- Highest priority:
 - Pregnant women
- Priority (in no particular order):
 - Children aged 6-59 months
 - Elderly
 - Individuals with specific chronic medical conditions
 - Health-care workers

Source: <http://www.who.int/influenza/vaccines/use/en>

Persons referred to hospitals due to influenza or suspicion of influenza between 8 and 15 January 2018 by reason and voivodeship

Voivodeship	Total		Reasons for hospital referrals ²⁾					
	number	% ³⁾	cardiovascular symptoms		respiratory symptoms		other reasons	
			number	% ⁴⁾	number	% ⁴⁾	number	% ⁴⁾
POLAND	489	0,31	11	2,2	465	95,1	50	10,2
Dolnośląskie	23	0,34	1	4,3	20	87,0	2	8,7
Kujawsko-Pomorskie	45	0,47	2	4,4	43	95,6	1	2,2
Lubelskie	30	0,56	1	3,3	24	80,0	6	20,0
Lubuskie	3	0,14	-	-	-	-	3	100,0
Łódzkie	13	0,18	-	-	13	100,0	-	-
Małopolskie	53	0,26	-	-	51	96,2	2	3,8
Mazowieckie	51	0,18	-	-	47	92,2	4	7,8
Opolskie	2	0,15	-	-	2	100,0	-	-
Podkarpackie	31	1,07	-	-	29	93,5	2	6,5
Podlaskie	22	0,65	-	-	22	100,0	-	-
Pomorskie	75	0,28	4	5,3	75	100,0	21	28,0
Śląskie	6	0,05	1	16,7	6	100,0	-	-
Świętokrzyskie	13	0,38	-	-	13	100,0	-	-
Warmińsko-Mazurskie	17	0,64	-	-	17	100,0	-	-
Wielkopolskie	76	0,38	1	1,3	74	97,4	1	1,3
Zachodniopomorskie	29	0,97	1	3,4	29	100,0	8	27,6

Deaths due to influenza between 8 and 15 January 2018 by age group and voivodeship

Voivodeship	Total	Age (completed years)			
		0 - 4	5 - 14	15 - 64	65 +
POLAND	-	-	-	-	-
Dolnośląskie	-	-	-	-	-
Kujawsko-Pomorskie	-	-	-	-	-
Lubelskie	-	-	-	-	-
Lubuskie	-	-	-	-	-
Łódzkie	-	-	-	-	-
Małopolskie	-	-	-	-	-
Mazowieckie	-	-	-	-	-
Opolskie	-	-	-	-	-
Podkarpackie	-	-	-	-	-
Podlaskie	-	-	-	-	-
Pomorskie	-	-	-	-	-
Śląskie	-	-	-	-	-
Świętokrzyskie	-	-	-	-	-
Warmińsko-Mazurskie	-	-	-	-	-
Wielkopolskie	-	-	-	-	-
Zachodniopomorskie	-	-	-	-	-

Notes:

1) Mean daily incidence per 100 000 population as of 30 June of a given year (in 2018 population as of 30 June 2017 was used for calculations).

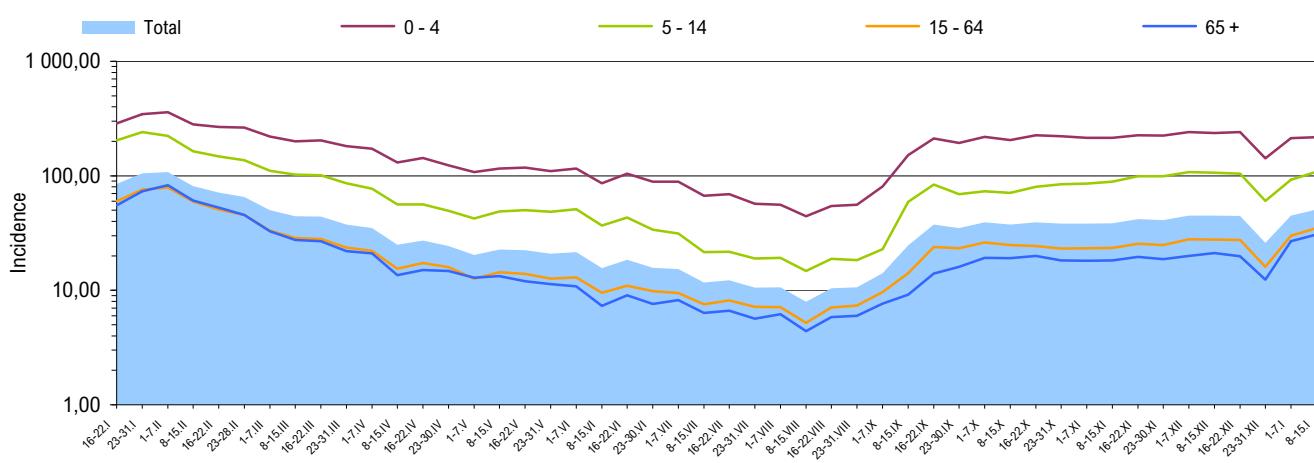
2) One person may be included in more than one column.

3) With reference to the total number of registered influenza cases and suspected cases of influenza.

4) With reference to the total number of persons referred to hospitals due to influenza or suspicion of influenza.

Data sources (1)

Numbers of cases, suspected cases and deaths: Data from the periodical, cumulative "Reports on influenza and suspected of influenza cases" sent to the Poviat Sanitary-Epidemiological Stations by all health care units visited by patients as well as data from death reports sent to the Poviat and/or Voivodeship Sanitary-Epidemiological Stations by physicians, that are then sent by Voivodeship Sanitary-Epidemiological Stations in the aggregated form to the Department of Epidemiology, NIPH-NIH. In "Reports" - according to definition of influenza applied for the surveillance of communicable diseases in the European Union (OJ L 262, 27.9.2012) - is reported influenza (diagnosed clinically and/or laboratory) and all clinically diagnosed influenza-like illness and acute respiratory infections which meet the definition criteria.

Influenza and influenza-like illness Incidence¹⁾ between 16 January 2017 and 15 January 2018 by age group and according to the periodical reports

Specimens collected from patients with influenza symptoms or influenza-like symptoms tested in the epidemic season 2017/2018 according to voivodeships

Voivodeship	Specimens collected between 04.09.2017 and 14.01.2018 r. (weeks 36/2017 - 2/2018) ²⁾			Of which specimens collected between 8 and 14 January 2018 (week 2/2018) ²⁾				
	total		positive ³⁾		total		positive ³⁾	
	number	frequency of sampl. ⁴⁾	number	%	number	frequency of sampl. ⁴⁾	number	%
POLAND	266	0,1	43	16,2	49	0,4	22	44,9
Dolnośląskie	3	0,0	-	-	2	0,3	-	-
Kujawsko-Pomorskie	17	0,1	2	11,8	-	-	x	x
Lubelskie	7	0,2	4	57,1	4	0,9	3	75,0
Lubuskie	1	0,0	1	100,0	1	0,5	1	100,0
Łódzkie	69	0,7	1	1,4	2	0,3	-	-
Małopolskie	-	-	x	x	-	-	x	x
Mazowieckie	2	0,0	-	-	1	0,0	-	-
Opolskie	2	0,1	-	-	2	1,7	-	-
Podkarpackie	25	1,0	13	52,0	9	3,5	8	88,9
Podlaskie	38	1,0	1	2,6	3	1,0	-	-
Pomorskie	-	-	x	x	-	-	x	x
Śląskie	1	0,0	-	-	-	-	x	x
Świętokrzyskie	8	0,3	5	62,5	2	0,7	2	100,0
Warmińsko-Mazurskie	1	0,0	-	-	1	0,4	-	-
Wielkopolskie	28	0,1	1	3,6	3	0,2	-	-
Zachodniopomorskie	64	1,9	15	23,4	19	7,2	8	42,1

Data sources (2)

Numbers of specimens and results of testing: Data from weekly reports sent to the National Influenza Center, NIPH-NIH by Voivodeship Sanitary-Epidemiological Stations, which received specimens for testing from family physicians participating in the selective influenza surveillance Sentinel. Specimens are collected from certain patients suspected to be infected with influenza virus or other respiratory viruses (RSV, parainfluenza, adenovirus).

SENTINEL

Influenza Sentinel is a selective system of integrated epidemiological and virological surveillance of influenza that exists in Poland since the epidemic season 2004/2005. The following institutions participate in the system: a representative number of family physicians, sanitary-epidemiological stations and the National Influenza Center, NIPH-NIH as a coordinator.

Notes:

1) Mean daily incidence per 100,000 population (as of 30 June 2017).

2) Reporting periods used in the Sentinel influenza surveillance system – calendar numbering of weeks (Monday - Sunday).

3) Tests for confirmation of infections with the following viruses: influenza A, influenza B, RSV (Respiratory Syncytial Virus), parainfluenza type 1, parainfluenza type 2, parainfluenza type 3 and adenovirus. Testing to diagnose infections with respiratory viruses other than influenza is not performed routinely.

4) Number of the collected specimens per 1000 influenza and influenza-like cases registered in the reporting period.

Specimens collected from the patients presenting influenza or influenza-like symptoms tested in the epidemic season 2017/2018 by age group

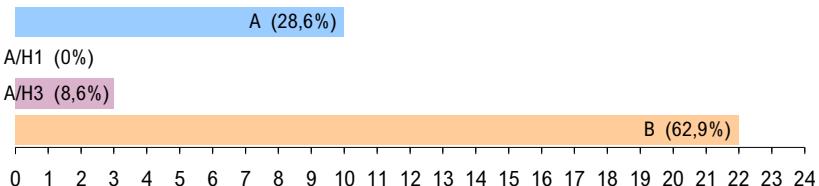
Age (in years)	Specimens collected between 04.09.2017 and 14.01.2018 (weeks 36/2017 - 2/2018) ²⁾			Of which specimens collected between 8 and 14 January 2018 (week 2/2018) ²⁾				
	total		positive ³⁾		total		positive ³⁾	
	number	frequency of sampl. ⁴⁾	number	%	number	frequency of sampl. ⁴⁾	number	%
0–4	28	0,1	8	28,6	15	0,5	4	26,7
5–14	21	0,0	5	23,8	6	0,2	3	50,0
15–64	184	0,2	26	14,1	22	0,3	13	59,1
65+	31	0,2	3	9,7	5	0,4	2	40,0
No data	2	x	1	50,0	1	x	-	-
TOTAL	266	0,1	43	16,2	49	0,4	22	44,9

Number of laboratory confirmed ¹⁾ infections with influenza virus or other respiratory viruses ²⁾ in the epidemic season 2017/2018 by selected pathogens and voivodeships

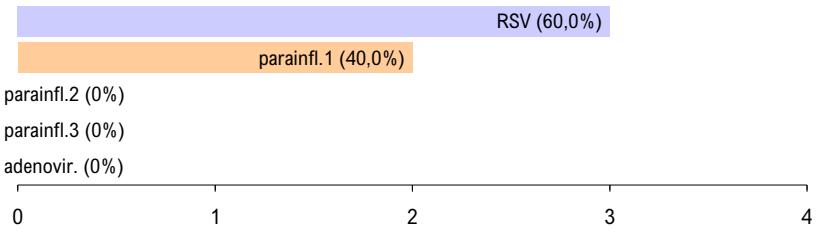
Voivodeship	Specimens collected between 04.09.2017 and 14.01.2018 (weeks 36/2017 - 2/2018) ³⁾								
	influenza				RSV	parainfluenza			adeno-virus
	A	A/H1	A/H3	B		type 1	type 2	type 3	
POLAND	10	-	3	22	3	2	-	-	-
Dolnośląskie	-	-	-	-	-	-	-	-	-
Kujawsko-Pomorskie	-	-	-	-	2	-	-	-	-
Lubelskie	-	-	-	4	-	-	-	-	-
Lubuskie	-	-	-	1	-	-	-	-	-
Łódzkie	-	-	-	-	-	1	-	-	-
Małopolskie	-	-	-	-	-	-	-	-	-
Mazowieckie	-	-	-	-	-	-	-	-	-
Opolskie	-	-	-	-	-	-	-	-	-
Podkarpackie	-	-	-	8	1	1	-	-	-
Podlaskie	-	-	-	1	-	-	-	-	-
Pomorskie	-	-	-	-	-	-	-	-	-
Śląskie	-	-	-	-	-	-	-	-	-
Świętokrzyskie	-	-	3	2	-	-	-	-	-
Warmińsko-Mazurskie	-	-	-	-	-	-	-	-	-
Wielkopolskie	-	-	-	1	-	-	-	-	-
Zachodniopomorskie	10	-	-	5	-	-	-	-	-

Laboratory confirmed ¹⁾ infections with influenza virus or other respiratory viruses ²⁾ and strains of influenza virus isolated ⁴⁾ in the epidemic season 2017/2018 by selected pathogens

Influenza: number and percentage of laboratory confirmations by type of the virus



Other respiratory viruses: number and percentage of laboratory confirmations by pathogen



Influenza: number and percentage of the isolated influenza virus strains by type/subtype



Influenza websites

- www.ecdc.europa.eu/en/healthtopics/influenza
ECDC: Influenza
- www.who.int/topics/influenza/en
WHO: Influenza
- www.who.int/influenza/en
WHO: Global Influenza Programme (GIP)
- www.euro.who.int/flu
WHO: Influenza and avian influenza
- www.cdc.gov/flu/
CDC: Seasonal Influenza (Flu)
- www.flu.gov
U.S. Government flu information

Explanations:

- 1) Isolation of virus, detection of virus antigen by immunofluorescence test (IF), detection of RNA/DNA specific for a given virus by molecular methods (PCR, real-time PCR).
- 2) Testing for infections with respiratory viruses other than influenza is not performed routinely.
- 3) Reporting periods used in the SENTINEL influenza surveillance system – calendar numbering of weeks (Monday - Sunday).
- 4) Identification of the isolated influenza virus strains is performed in the National Influenza Center, NIPH-NIH.

Number of influenza virus strains isolated in the epidemic season 2017/2018 by type and voivodeship

Voivodeship	Specimens collected between 04.09.2017 and 14.01.2018		
	A/H1	A/H3	B
POLAND	-	-	-
Dolnośląskie	-	-	-
Kujawsko-Pomorskie	-	-	-
Lubelskie	-	-	-
Lubuskie	-	-	-
Łódzkie	-	-	-
Małopolskie	-	-	-
Mazowieckie	-	-	-
Opolskie	-	-	-
Podkarpackie	-	-	-
Podlaskie	-	-	-
Pomorskie	-	-	-
Śląskie	-	-	-
Świętokrzyskie	-	-	-
Warmińsko-Mazurskie	-	-	-
Wielkopolskie	-	-	-
Zachodniopomorskie	-	-	-

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