

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: 2020

Month: February

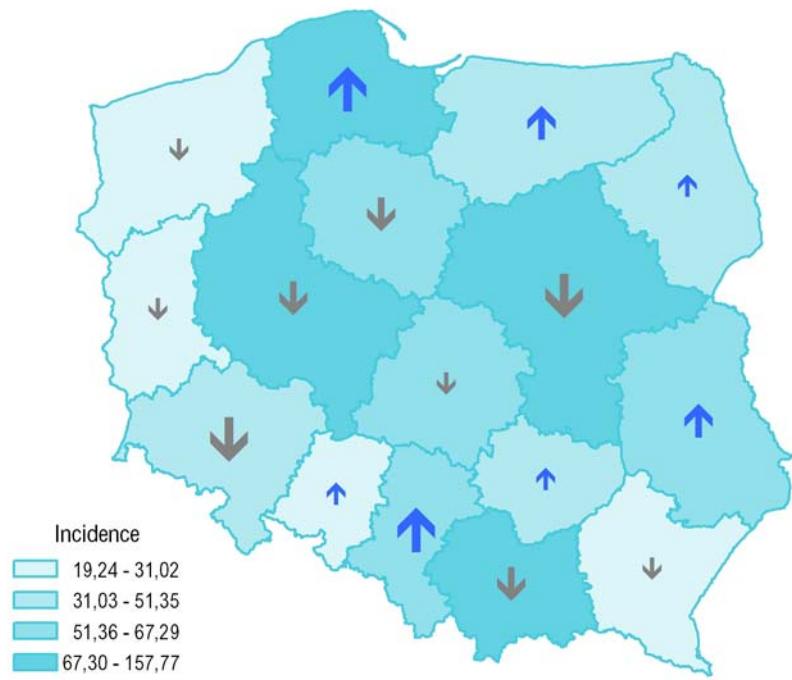
Number: 2B (6)

Period: 8 – 15 February

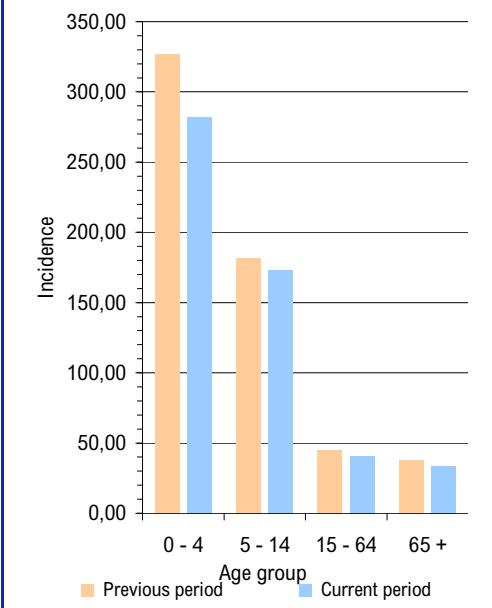
Cases of influenza and influenza-like illness between 8 and 15 February 2020 by age group and voivodeship

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	200194	65,19	-6,81	43185	282,07	54890	173,32	83811	40,80	18308	33,48
Dolnośląskie	11914	51,35	-25,60	2549	231,67	2803	123,43	5073	32,75	1489	34,32
Kujawsko-Pomorskie	8990	54,17	-14,85	1998	253,28	1859	107,88	4151	37,08	982	33,97
Lubelskie	11370	67,29	10,19	1951	248,12	3869	227,67	4586	40,51	964	31,19
Lubuskie	1559	19,24	-4,91	431	111,73	398	46,61	608	11,12	122	8,73
Łódzkie	11852	60,22	-4,51	2420	268,23	4136	215,54	4232	32,65	1064	27,28
Małopolskie	19491	71,56	-15,03	4318	292,86	4026	138,63	9223	50,44	1924	42,05
Mazowieckie	36582	84,50	-28,57	7422	310,60	10552	224,72	15609	54,84	2999	38,72
Opolskie	2396	30,43	3,21	557	161,75	618	86,89	992	18,51	229	15,70
Podkarpackie	4486	26,36	-0,19	824	99,15	1448	82,77	1840	15,86	374	13,19
Podlaskie	3548	37,60	2,03	808	177,06	886	96,11	1362	21,27	492	29,75
Pomorskie	29506	157,77	14,76	6985	668,39	9419	450,90	11105	89,16	1997	64,16
Śląskie	20004	55,27	10,93	4543	267,47	6398	180,29	7671	31,82	1392	20,37
Świętokrzyskie	4761	48,10	4,95	1160	274,49	1051	111,93	2020	30,51	530	27,65
Warmińsko-Mazurskie	4301	37,70	9,80	905	166,99	1197	99,23	1781	22,81	418	22,56
Wielkopolskie	25219	90,18	-17,76	5518	361,72	4962	160,90	11883	63,45	2856	61,75
Zachodniopomorskie	4215	31,02	-1,95	796	128,92	1268	93,65	1675	18,29	476	19,38

Incidence ¹⁾ between 8 and 15 February 2020 in comparison to the previous reporting period ³⁾ by voivodeship



Incidence ¹⁾ between 8 and 15 February 2020 and in the previous reporting period ³⁾ by age group

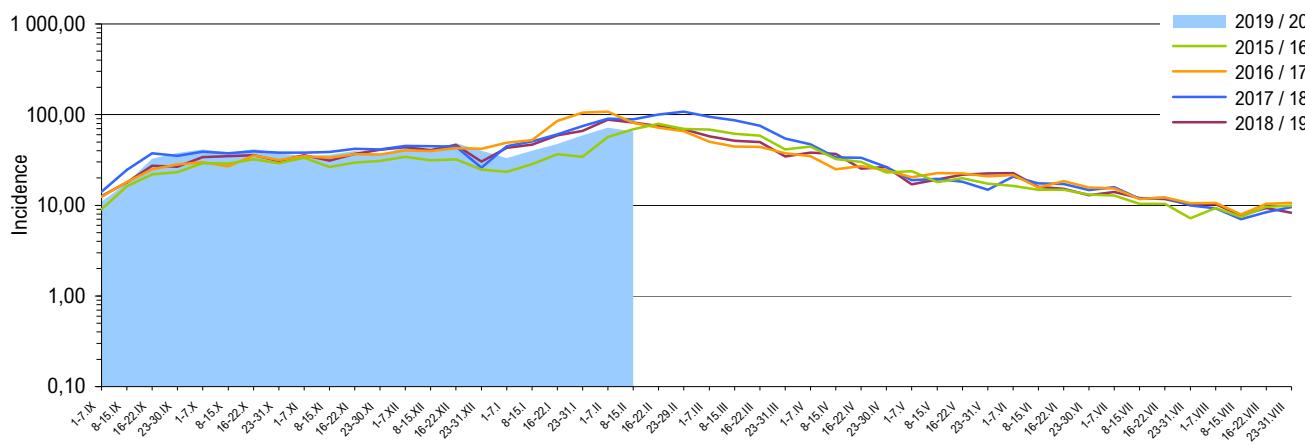


Symbols used in tables and figures: Dash (-) event did not occur ("zero"); Zero (0,0) event occurred, but in numbers that could not be expressed in digits demonstrated in the table; Dot (.) complete lack of information or lack of credible information; Letter x (x) considering a layout of the table, filling 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 2019).
- In comparison with the previous reporting period.
- Previous reporting period: 1 - 7 February 2020.

Influenza and influenza-like illness incidence¹⁾ in the epidemic season 2019/2020 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 February 2020 by reason and voivodeship

Voivodeship	Total		Reasons for hospital referrals ²⁾					
			cardiovascular symptoms		respiratory symptoms		other reasons	
	number	% ³⁾	number	% ⁴⁾	number	% ⁴⁾	number	% ⁴⁾
POLAND	1325	0,66	56	4,2	1197	90,3	175	13,2
Dolnośląskie	98	0,82	2	2,0	96	98,0	4	4,1
Kujawsko-Pomorskie	73	0,81	11	15,1	61	83,6	5	6,8
Lubelskie	181	1,59	-	-	175	96,7	22	12,2
Lubuskie	12	0,77	-	-	12	100,0	-	-
Łódzkie	53	0,45	9	17,0	42	79,2	2	3,8
Małopolskie	123	0,63	1	0,8	83	67,5	59	48,0
Mazowieckie	210	0,57	3	1,4	201	95,7	8	3,8
Opolskie	9	0,38	-	-	8	88,9	1	11,1
Podkarpackie	62	1,38	7	11,3	35	56,5	27	43,5
Podlaskie	21	0,59	-	-	21	100,0	1	4,8
Pomorskie	125	0,42	12	9,6	111	88,8	12	9,6
Śląskie	78	0,39	7	9,0	78	100,0	-	-
Świętokrzyskie	82	1,72	1	1,2	81	98,8	8	9,8
Warmińsko-Mazurskie	19	0,44	-	-	19	100,0	-	-
Wielkopolskie	136	0,54	3	2,2	131	96,3	8	5,9
Zachodniopomorskie	43	1,02	-	-	43	100,0	18	41,9

Deaths due to influenza between 8 and 15 February 2020 by age group and voivodeship

Voivodeship	Total	Age (completed years)			
		0 – 4	5 – 14	15 – 64	65 +
POLAND	4	-	1	-	3
Dolnośląskie	2	-	-	-	2
Kujawsko-Pomorskie	-	-	-	-	-
Lubelskie	-	-	-	-	-
Lubuskie	-	-	-	-	-
Łódzkie	1	-	-	-	1
Małopolskie	-	-	-	-	-
Mazowieckie	-	-	-	-	-
Opolskie	-	-	-	-	-
Podkarpackie	-	-	-	-	-
Podlaskie	-	-	-	-	-
Pomorskie	-	-	-	-	-
Śląskie	1	-	1	-	-
Świętokrzyskie	-	-	-	-	-
Warmińsko-Mazurskie	-	-	-	-	-
Wielkopolskie	-	-	-	-	-
Zachodniopomorskie	-	-	-	-	-

Notes:

1) Mean daily incidence per 100 000 population as of 30 June of a given year (in 2020 population as of 30 June 2019 was used for calculations).

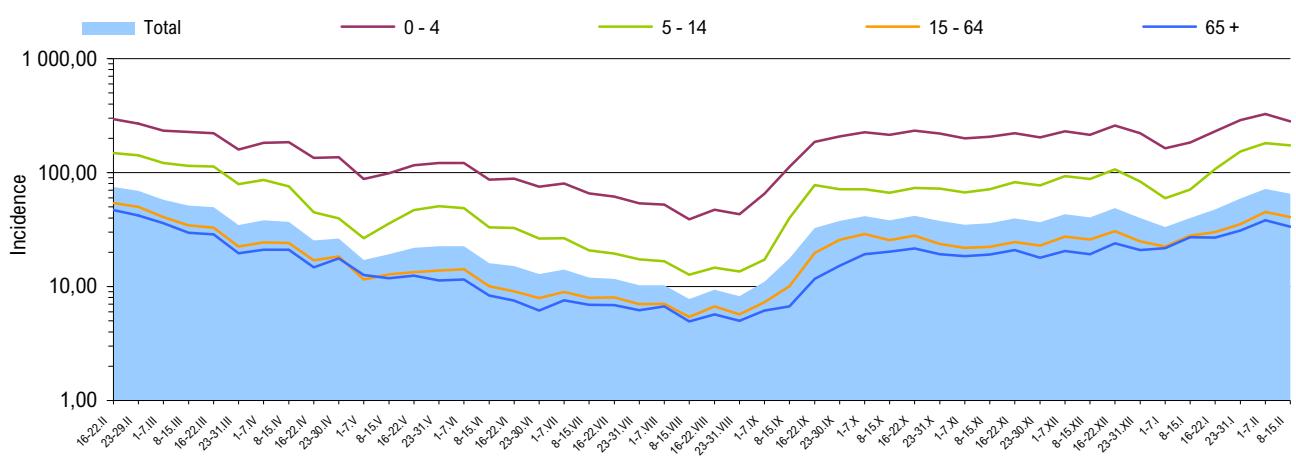
2) One person may be included in more than one column.

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 February 2019 and 15 February 2020 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 2019/2020 according to voivodeships

Voivodeship	Specimens collected between 02.09.2019 and 09.02.2020 r. (weeks 36/2019 - 6/2020) ²⁾			Of which specimens collected between 3 and 9 February 2020 (week 6/2020) ²⁾				
	total		positive ³⁾		total		positive ³⁾	
	number	frequency of sampl. ⁴⁾	number	%	number	frequency of sampl. ⁴⁾	number	%
POLAND	301	0,1	147	48,8	106	0,6	63	59,4
Dolnośląskie	13	0,1	11	84,6	8	0,6	6	75,0
Kujawsko-Pomorskie	-	-	x	x	-	-	x	x
Lubelskie	30	0,4	12	40,0	17	1,9	10	58,8
Lubuskie	1	0,0	-	-	-	-	x	x
Łódzkie	15	0,1	4	26,7	1	0,1	-	-
Małopolskie	38	0,2	21	55,3	11	0,6	5	45,5
Mazowieckie	34	0,1	25	73,5	23	0,6	19	82,6
Opolskie	2	0,1	-	-	-	-	x	x
Podkarpackie	29	0,8	7	24,1	7	1,8	2	28,6
Podlaskie	9	0,2	1	11,1	3	1,0	1	33,3
Pomorskie	29	0,1	15	51,7	6	0,2	4	66,7
Śląskie	3	0,0	2	66,7	3	0,2	2	66,7
Świętokrzyskie	4	0,1	1	25,0	1	0,3	1	100,0
Warmińsko-Mazurskie	53	1,2	30	56,6	16	5,2	7	43,8
Wielkopolskie	33	0,1	12	36,4	8	0,3	5	62,5
Zachodniopomorskie	8	0,2	6	75,0	2	0,5	1	50,0

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 2019).

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 2019/2020 by age group

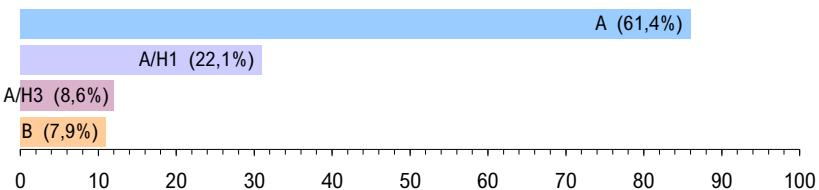
Age (in years)	Specimens collected between 02.09.2019 and 09.02.2020 (weeks 36/2019 - 6/2020) ²⁾			Of which specimens collected between 3 and 9 February 2020 (week 6/2020) ²⁾				
	total		positive ³⁾		total		positive ³⁾	
	number	frequency of sampl. ⁴⁾	number	%	number	frequency of sampl. ⁴⁾	number	%
0 – 4	43	0,1	27	62,8	16	0,4	9	56,3
5 – 14	83	0,2	49	59,0	38	0,8	26	68,4
15 – 64	158	0,1	64	40,5	45	0,6	26	57,8
65 +	16	0,1	7	43,8	6	0,3	2	33,3
No data	1	x	-	-	1	x	-	-
TOTAL	301	0,1	147	48,8	106	0,6	63	59,4

Number of laboratory confirmed ¹⁾ infections with influenza virus or other respiratory viruses ²⁾ in the epidemic season 2019/2020 by selected pathogens and voivodeships

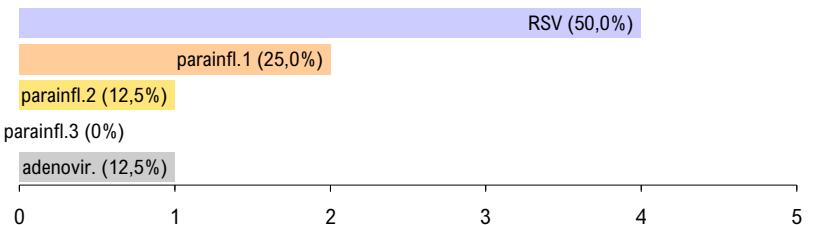
Voivodeship	Specimens collected between 02.09.2019 and 09.02.2020 (weeks 36/2019 - 6/2020) ³⁾								
	influenza				RSV	parainfluenza			adeno-virus
	A	A/H1	A/H3	B		type 1	type 2	type 3	
POLAND	86	31	12	11	4	2	1	-	1
Dolnośląskie	-	2	2	7	-	-	-	-	-
Kujawsko-Pomorskie	-	-	-	-	-	-	-	-	-
Lubelskie	11	1	-	-	-	-	-	-	-
Lubuskie	-	-	-	-	-	-	-	-	-
Łódzkie	-	1	1	-	-	2	1	-	1
Małopolskie	20	-	-	-	2	-	-	-	-
Mazowieckie	18	7	-	-	-	-	-	-	-
Opolskie	-	-	-	-	-	-	-	-	-
Podkarpackie	-	1	4	-	-	-	-	-	-
Podlaskie	-	1	-	-	-	-	-	-	-
Pomorskie	9	3	-	3	-	-	-	-	-
Śląskie	1	-	-	1	-	-	-	-	-
Świętokrzyskie	-	-	1	-	-	-	-	-	-
Warmińsko-Mazurskie	15	13	-	-	2	-	-	-	-
Wielkopolskie	12	-	-	-	-	-	-	-	-
Zachodniopomorskie	-	2	4	-	-	-	-	-	-

Laboratory confirmed ¹⁾ infections with influenza virus or other respiratory viruses ²⁾ and strains of influenza virus isolated ⁴⁾ in the epidemic season 2019/2020 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



Prevention of influenza

- Annual influenza vaccination.
- Observing the hygiene of washing and disinfecting hands.
- Covering the mouth and nose during coughing and sneezing.
- Avoiding staying in rooms with a high density of people during the flu season.
- Avoiding direct contact with other people by people with symptoms of upper respiratory tract infection.
- In medical facilities, introduce appropriate preventive regulations for a given unit and create technical conditions to respect them.
- In other workplaces, introducing technical solutions and administrative regulations preventing the spread of infections.

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 2019/2020 by type and voivodeship

Voivodeship	Specimens collected between 02.09.2019 and 09.02.2020		
	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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