

Epidemiological Reports

Influenza and influenza-like illness in Poland

National Institute of Public Health - NIH • Department of Epidemiology and Surveillance of Infectious Diseases and Department of Influenza Research, National Influenza Center
Chief Sanitary Inspectorate • Department for Communicable Disease and Infection Prevention and Control

Year: **2021**

Month: **February**

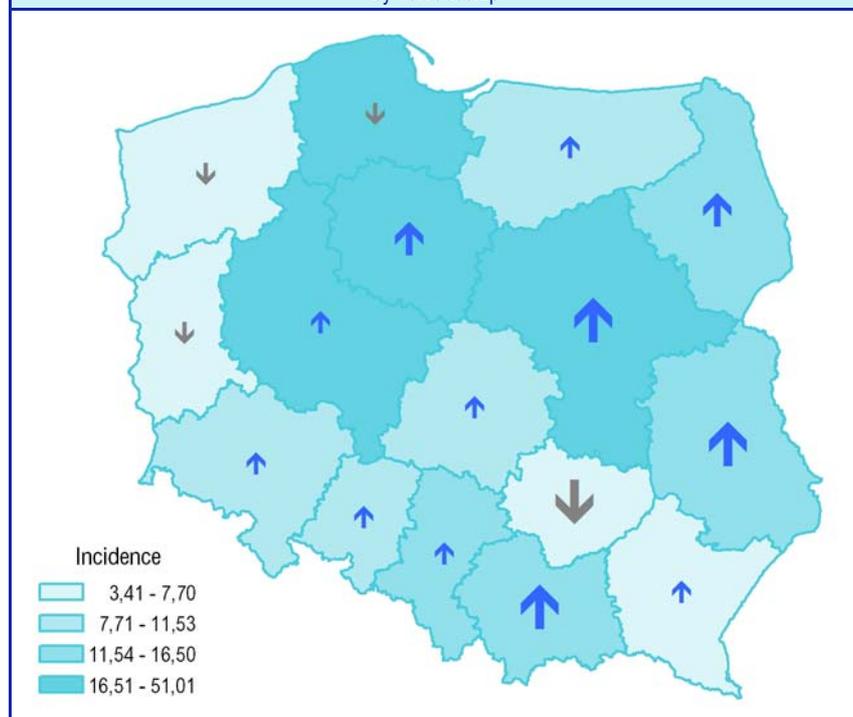
Number: **2B (6)**

Period: **8 – 15 February**

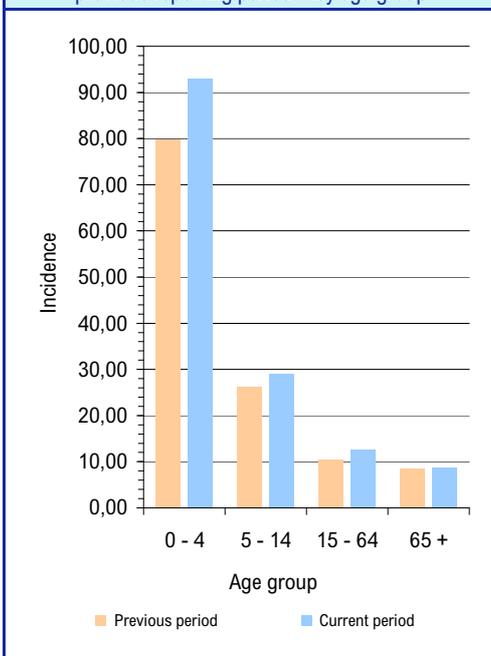
Cases of influenza and influenza-like illness between 8 and 15 February 2021 by age group and voivodeship

Voivodeship	Total number of cases and incidence			Age (completed years)							
				0 – 4		5 – 14		15 – 64		65+	
	number	incidence ¹⁾	change in incidence ^{2,3)}	number	incidence ¹⁾	number	incidence ¹⁾	number	incidence ¹⁾	number	incidence ¹⁾
POLAND	54008	17,60	2,31	14209	92,92	9212	28,99	25696	12,64	4891	8,66
Dolnośląskie	2672	11,52	0,46	481	43,70	415	18,14	1441	9,42	335	7,45
Kujawsko-Pomorskie	3779	22,83	4,57	1021	130,12	726	42,23	1673	15,13	359	12,01
Lubelskie	2147	12,76	7,22	703	90,12	408	24,13	921	8,24	115	3,62
Lubuskie	368	4,55	-2,22	97	25,52	64	7,50	181	3,35	26	1,79
Łódzkie	2259	11,53	1,35	609	68,16	332	17,29	1085	8,50	233	5,81
Małopolskie	4506	16,50	5,66	1396	93,80	802	27,43	1902	10,46	406	8,62
Mazowieckie	10770	24,80	5,11	2594	107,79	1837	38,69	5234	18,51	1105	13,84
Opolskie	726	9,25	2,44	171	49,85	79	11,09	417	7,89	59	3,92
Podkarpackie	580	3,41	1,39	147	17,61	109	6,26	251	2,18	73	2,49
Podlaskie	1224	13,00	4,27	365	79,65	230	24,94	535	8,45	94	5,53
Pomorskie	9576	51,01	-1,49	2734	259,84	1605	76,23	4541	36,67	696	21,54
Śląskie	5176	14,35	2,25	1442	85,88	801	22,46	2478	10,42	455	6,46
Świętokrzyskie	758	7,70	-5,92	215	51,61	136	14,56	336	5,16	71	3,60
Warmińsko-Mazurskie	991	8,72	1,79	195	36,48	139	11,57	524	6,80	133	6,90
Wielkopolskie	7886	28,16	1,17	1919	125,38	1418	45,68	3879	20,87	670	14,00
Zachodniopomorskie	590	4,36	-1,04	120	19,70	111	8,22	298	3,30	61	2,39

Incidence ¹⁾ between 8 and 15 February 2021 in comparison to the previous reporting period ³⁾ by voivodeship



Incidence ¹⁾ between 8 and 15 February 2021 and in the previous reporting period ³⁾ by age group

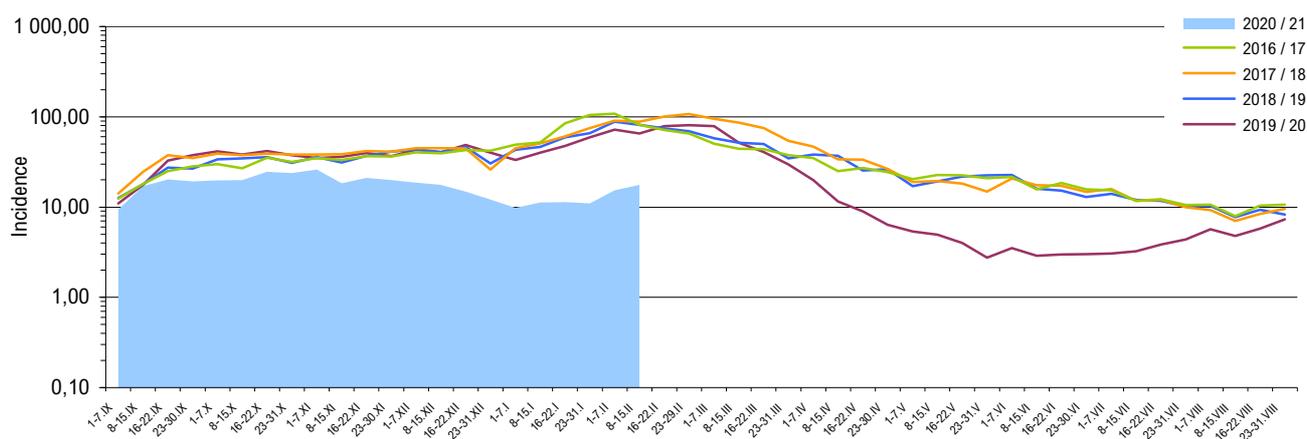


Notes:

- 1) Mean daily incidence per 100 000 population (as of 30 June 2020).
- 2) In comparison with the previous reporting period.
- 3) Previous reporting period: 1 - 7 February 2021.

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.

Influenza and influenza-like illness incidence ¹⁾ in the epidemic season 2020/2021 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 2021 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	90	0,17	2	2,2	84	93,3	4	4,4
Dolnośląskie	9	0,34	-	-	9	100,0	-	-
Kujawsko-Pomorskie	2	0,05	-	-	2	100,0	-	-
Lubelskie	1	0,05	-	-	1	100,0	-	-
Lubuskie	1	0,27	-	-	1	100,0	-	-
Łódzkie	2	0,09	-	-	2	100,0	-	-
Małopolskie	10	0,22	-	-	7	70,0	3	30,0
Mazowieckie	11	0,10	1	9,1	9	81,8	1	9,1
Opolskie	-	-	x	x	x	x	x	x
Podkarpackie	-	-	x	x	x	x	x	x
Podlaskie	4	0,33	-	-	4	100,0	-	-
Pomorskie	9	0,09	1	11,1	8	88,9	-	-
Śląskie	1	0,02	-	-	1	100,0	-	-
Świętokrzyskie	-	-	x	x	x	x	x	x
Warmińsko-Mazurskie	24	2,42	-	-	24	100,0	-	-
Wielkopolskie	14	0,18	-	-	14	100,0	-	-
Zachodniopomorskie	2	0,34	-	-	2	100,0	-	-

Deaths due to influenza between 8 and 15 February 2021 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 2021 population as of 30 June 2020 was used for calculations).

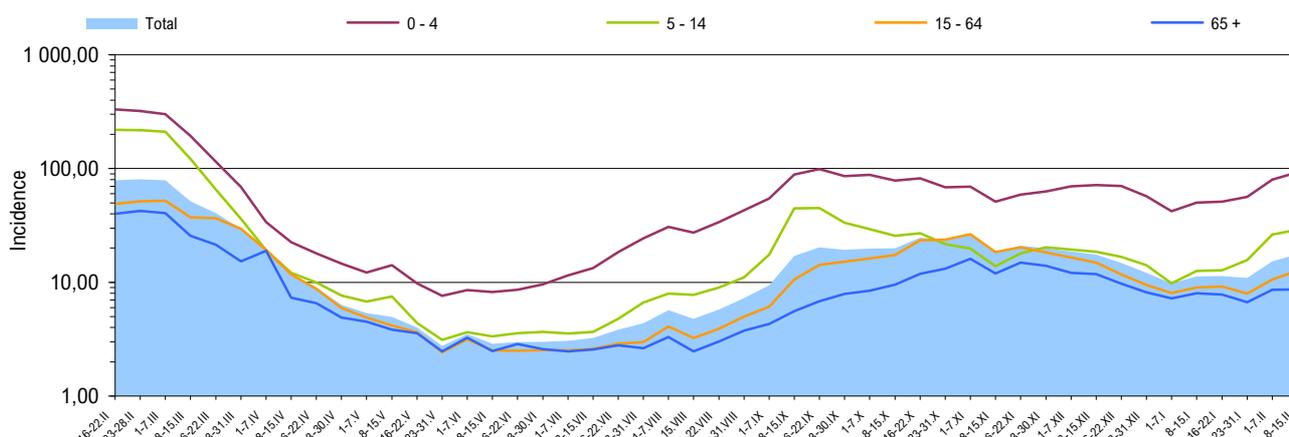
2) One person may be included in more than one column.

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 Poviats Sanitary-Epidemiological Stations by all health care units visited by patients as well as data from death reports sent to the Poviats 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 2020 and 15 February 2021 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 2020/2021 according to voivodships

Voivodship	Specimens collected between 07.09.2020 and 14.02.2021 r. (weeks 37/2020 - 6/2021) ²⁾				Of which specimens collected between 8 and 14 February 2021 (week 6/2021) ²⁾			
	total		positive ³⁾		total		positive ³⁾	
	number	frequency of sampl. ⁴⁾	number	%	number	frequency of sampl. ⁴⁾	number	%
POLAND	76	0,1	-	-	19	0,4	-	-
Dolnośląskie	-	-	x	x	-	-	x	x
Kujawsko-Pomorskie	-	-	x	x	-	-	x	x
Lubelskie	-	-	x	x	-	-	x	x
Lubuskie	-	-	x	x	-	-	x	x
Łódzkie	4	0,1	-	-	-	-	x	x
Małopolskie	1	0,0	-	-	-	-	x	x
Mazowieckie	12	0,1	-	-	12	1,3	-	-
Opolskie	40	2,5	-	-	-	-	x	x
Podkarpackie	1	0,1	-	-	-	-	x	x
Podlaskie	7	0,4	-	-	7	6,5	-	-
Pomorskie	-	-	x	x	-	-	x	x
Śląskie	-	-	x	x	-	-	x	x
Świętokrzyskie	-	-	x	x	-	-	x	x
Warmińsko-Mazurskie	-	-	x	x	-	-	x	x
Wielkopolskie	-	-	x	x	-	-	x	x
Zachodniopomorskie	11	0,7	-	-	-	-	x	x

Data sources (2)

Numbers of specimens and results of testing: Data from weekly reports sent to the National Influenza Center, NIPH-NIH by Voivodship 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 2020).
- 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 2020/2021 by age group

Age (in years)	Specimens collected between 07.09.2020 and 14.02.2021 (weeks 37/2020 - 6/2021) ²⁾				Of which specimens collected between 8 and 14 February 2021 (week 6/2021) ²⁾			
	total		positive ³⁾		total		positive ³⁾	
	number	frequency of sampl. ⁴⁾	number	%	number	frequency of sampl. ⁴⁾	number	%
0-4	4	0,0	-	-	1	0,1	-	-
5-14	6	0,0	-	-	3	0,4	-	-
15-64	33	0,1	-	-	9	0,4	-	-
65+	33	0,3	-	-	6	1,4	-	-
No data	-	-	x	x	-	-	x	x
TOTAL	76	0,1	-	-	19	0,4	-	-

Number of laboratory confirmed ¹⁾ infections with influenza virus or other respiratory viruses ²⁾ in the epidemic season 2020/2021 by selected pathogens and voivodeships

Voivodeship	Specimens collected between 07.09.2020 and 14.02.2021 (weeks 37/2020 - 6/2021) ³⁾								
	influenza				RSV	parainfluenza			adeno-virus
	A	A/H1	A/H3	B		type 1	type 2	type 3	
POLAND	-	-	-	-	-	-	-	-	-
Dolnośląskie	-	-	-	-	-	-	-	-	-
Kujawsko-Pomorskie	-	-	-	-	-	-	-	-	-
Lubelskie	-	-	-	-	-	-	-	-	-
Lubuskie	-	-	-	-	-	-	-	-	-
Łódzkie	-	-	-	-	-	-	-	-	-
Małopolskie	-	-	-	-	-	-	-	-	-
Mazowieckie	-	-	-	-	-	-	-	-	-
Opolskie	-	-	-	-	-	-	-	-	-
Podkarpackie	-	-	-	-	-	-	-	-	-
Podlaskie	-	-	-	-	-	-	-	-	-
Pomorskie	-	-	-	-	-	-	-	-	-
Śląskie	-	-	-	-	-	-	-	-	-
Świętokrzyskie	-	-	-	-	-	-	-	-	-
Warmińsko-Mazurskie	-	-	-	-	-	-	-	-	-
Wielkopolskie	-	-	-	-	-	-	-	-	-
Zachodniopomorskie	-	-	-	-	-	-	-	-	-

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.

Laboratory confirmed ¹⁾ infections with influenza virus or other respiratory viruses ²⁾ and strains of influenza virus isolated ⁴⁾ in the epidemic season 2020/2021 by selected pathogens

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

A (0%)

A/H1 (0%)

A/H3 (0%)

B (0%)

0

1

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

RSV (0%)

parainfl.1 (0%)

parainfl.2 (0%)

parainfl.3 (0%)

adenovir. (0%)

0

1

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

A/H1 (0%)

A/H3 (0%)

B (0%)

0

1

Number of influenza virus strains isolated in the epidemic season 2020/2021 by type and voivodeship

Voivodeship	Specimens collected between 07.09.2020 and 14.02.2021		
	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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