

Seasonal influenza vaccination programme country profile: Bulgaria

2012-13 Season

Background information

Influenza immunisation policy and general facts about Bulgaria			
Volume indices of GDP per capita in 2011 and 2013 (EU-28=100) Source: Eurostat ^a	44 and 45 respectively		
Health costs as % of GDP 2011 Source: Eurostat ^b	4.6%		
Total population of the country, 2011 Source: Eurostat ^c	7 364 570		
Population ≥65, 2011 Source: Eurostat ^c	1 361 397 (18.5% from the total population)		
Population with chronic medical conditions <65 years, 2006 Source: ECDC (based on methodology by Fleming and Eliot, 2006) ^d	637 000(8.6% from the total population)		
Number of live births in 2011 ^e	70 846 (1% from the total population)		
National seasonal influenza recommendations (e.g. age and target group recommendations and guidelines)	Recommendations available		
URL link to Immunisation Guidelines for Bulgaria	http://www.mh.government.bg/Articles.aspx?lang=bg- BG&pageid=391¤tPage=11&categoryid=5211		
National Action Plan (NAP) as requested by EC	Plan is under development		
URL link to NAP	na		

na: Not applicable EUROSTAT links:

http://www.ecdc.europa.eu/en/publications/Publications/0808 GUI Priority Risk Groups for Influenza Vaccination on.pdf (Fleming, D.M. and A.J. Elliot, Estimating the risk population in relation to influenza vaccination policy. 2006 May 15; 24(20):4378-85)

^aGDP per capita 2013 (accessed 15.12.2014): http://ec.europa.eu/eurostat/statistics-explained/index.php/GDP per capita, consumption per capita and price level indices

^bHealth expenditures 2011(accessed 15.12.2014): http://ec.europa.eu/eurostat/statistics-explained/index.php/General-government expenditure on social protection and health-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained/index.php/General-government-explained-e

^cTotal population and those > 65 years of age 2011(accessed 15.12.2014): https://ec.europa.eu/CensusHub2/intermediate.do?&method=forwardResult

^d Population with chronic medical conditions 2006:

^e Number of live births in 2011(accessed 15.12.2014): http://ec.europa.eu/eurostat/tgm/table.do?tab=table&init=1&language=en&pcode=tps00111&plugin=1

Seasonal influenza vaccination recommendations and payment mechanism for vaccination

Vaccination recommendations (population groups targeted by vaccination)			
Overall population	No recommendation		
Healthy children and adolescents	No recommendation		
Older population groups: ≥65 years of age	Recommended		
Chronic medical conditions	Recommended: - Pulmonary diseases, - Cardiovascular diseases, - Renal diseases, - Hepatic diseases, - Haematological disorders, - Metabolic disorders, - Immunosuppressed individuals, - HIV/AIDS		
Dragnang viriated vaccination (including part partum woman)	No recommendation: - Neurologic diseases, - Morbid obesity, - Long-term aspirin use (children <18 years) No recommendation:		
Pregnancy-related vaccination (including post-partum women)	- Pregnant women		
	Postpartum women if not vaccinated during pregnancy recommended only for those with chronic medical condition.		
Healthcare workers	Recommended to all healthcare workers		
Other occupational groups	Recommended: - Police and Fire service - Military - Public transport (e.g. ground, rail, air, marine) - Social care workers		
Population groups in closed communities	Recommended: - For residents of long- term care facilities; - For children in day care centers		
	No recommendation: - For prisoners;		
Household contacts or care receivers	Recommended: - Immunosuppressed individuals Individuals with chronic medical conditions; - ≥65 years of age.		
	No recommendation: - Infants <6months of age.		

Payment mechanism for vaccine and its administration for the population groups targeted by seasonal influenza vaccine				
	For vaccine	For administration		
Overall population	na	na		
Healthy children and adolescents	na	na		
Older population groups (≥65 years of age) ^a	Out of pocket	Out of pocket		
Chronic medical conditions groups (by group)a	Out of pocket	Out of pocket		
Pregnancy-related vaccination (including post- partum women) ^a	na	na		
Health care workers (including staff of long-stay care facilities) ^a	Out of pocket; Employer	Out of pocket; Employer		
Other occupational groups ^a	Out of pocket; Employer	Out of pocket; Employer		
Population groups in closed communities ^a	Out of pocket; National health service (Ministry of Health)	Out of pocket; National health service (Ministry of Health)		
Household contacts or care givers ^a	Out of pocket	Out of pocket		

^a No co-payment for vaccine and vaccine administration.

na: Not applicable

National insurance scheme: health contributions are paid to the insurance fund and then for this contribution there is a package of services received. It is not by default that you receive the services if you do not pay the insurance contributions.

National health service: taxes are paid by a citizen or resident of the country and this person is covered by the health service.

Out of pocket: not reimbursed, paid by receiver of vaccine.

Vaccination coverage rates

Vaccination coverage (%) in population groups targeted by seasonal influenza vaccination the from 2008–09 to the 2012–13 influenza season by method of data collection (administrative and /or survey)

Population group	Influenza season									
	2008–09 2009–10		2010-11		2011–12		2012-13			
	Admin.	Surv.	Admin.	Surv.	Admin.	Surv.	Admin.	Surv.	Admin.	Surv.
Overall population	4.74	-	6.33	-	3.41	-	2.91	-	2.67	-
Children/adolescents	na	na	na	na	na	na	na	na	na	na
Older population groups: ≥65 years of age	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chronic medical conditions groups ^a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pregnant women b	-	-	_	-	na	na	na	na	na	na
Healthcare workers	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Staff in long-stay care facilities ^c	-	-	-	-	-	-	NA	NA	NA	NA
Residents in long stay care facilities ^c	-	-	-	-	-	-	NA	NA	NA	NA

na: Not applicable

NA: Not available

^a Vaccine uptake is for patients who are between 6 months and 65 years in a clinical risk group. It includes pregnant women with other risk factors but excludes otherwise-healthy pregnant women and carers.

^b VENICE started to collect vaccination coverage data for pregnant women after the A(H1N1)pdm09 (2010-11 influenza season).

^c VENICE started to collect vaccination coverage data for staff and residents in long-stay care facilities for the influenza season 2011-12.

Methods to monitor vaccination coverage, safety and effectiveness

Monitoring of vaccination coverage during the 2012–13 influenza season Method used to monitor influenza vaccination coverage Administrative method only

Method used (administrative, survey) to monitor vaccination coverage by population group				
Administrative	Survey			
Do not monitor vaccination coverage in any population groups recommended vaccine (e.g. : \geq 65 years of age; those with chronic medical conditions; pregnant women, HCWs)	na			

na: Not applicable

Details on administrative method used (medical records vs. immunisation registry; manual vs. electronic) by population group				
Medical records Immunisation registry				
Manual	Electronic	Manual	Electronic	
na na No No				

na: Not applicable

Numerator assessment				
Pharmaceutical data	Administrative data	Frequency of numerator assessment		
Vaccine distribution data from national purchaserentire population used	Aggregate collection of number of vaccines distributed (national purchaser);	Once, at the end of influenza season		

Denominator assessment by population groups and data source			
Population group	Data source for population group		
Entire population	National central statistical data		
Children and adolescents	na		
Adults	Not used		
Individuals with medical/risk conditions (clinical risk groups)	Not used		
Pregnant women	na		
Healthcare workers	Not used		
Essential public sector workers	Not used		
Prisoners	na		
Residents of long-term care institutions	Not used		
Educational institutions	Not used		
Other, please specify	National central statistical data		

na: Not applicable

Details for survey method used for the 2012–13 influenza season					
Type of the survey Survey mode Sampling strategy Sample size					
na	na	na	na		

na: Not applicable

Scientific studies conducted for vaccination coverage; vaccine safety and vaccine effectiveness

Not conducted

Vaccine safety monitoring (adverse events following immunisation AEFV)				
Data collected at the national and at the regional level	Data linkage with immunisation registry	Details collected	Status of reporting	AEFV reported to
Yes	No	Yes, case based data including age, sex and suspected symptoms should be reported	Mandatory	MoH and Bulgarian Drug Agency

Monitoring of influenza vaccine break-through ^a infections in vaccinated individuals				
Data collected at the national and at the regional level	Data linkage with immunisation registry	Details collected		
There is no such system	na	na		

na: Not applicable

Vaccine procurement and delivery

Influenza vaccine procurement and delivery, 2012–13 influenza season				
Number of doses				
Purchased Distributed Used				
194 398 NK NK				

NK: Not known

Type of vaccine/Product Name	Target groups		
Trivalent inactivated non-adjuvanted vaccines (TIV)			
Used			
Abbott; Sanofi Pasteur.	Older adults (e.g. ≥60/65 years); Those with medical condition/s; Residents of long stay care facilities; Healthcare workers Other occupational groups		
Trivalent inactivated adjuvanted vaccines (aTIV)			
Not used			
Trivalent live attenuated nasal vaccine (LAIV)			
Not used			

^a Break-through infection is defined as laboratory-confirmed influenza infection >14 days after seasonal influenza vaccination in the current season (i.e. vaccine failure).

Quadrivalent attenuated nasal vaccine (LAIV)		
Not used		
Quadrivalent inactivated non-adjuvanted vaccine (QIV)		
Not used		

Promoting seasonal influenza vaccination

Promoting seasonal influenza vaccination during the 2012-13 influenza season			
Promotion activities with the general public and healthcare workers	Source of information (if yes)		
General public			
Yes	Radio; TV; Newspapers; Leaflets		
Population over 65			
Yes	Radio; TV; Newspapers; Leaflets		
Pregnant women			
Yes	na		
Chronic medical conditions			
Yes	Radio; TV; Newspapers; Leaflets		
Healthcare workers			
Yes	Radio; TV; Newspapers; Website; Professional medical societies; National medical publications		

na: Not applicable

Use of antiviral agents for treatment and chemoprophylaxis of influenza

Recommendations and/or guidelines (policy document) on antiviral use

Recommendations available

Use of antiviral agents for treatment and chemoprophylaxis of influenza during the 2012-13 influenza season Use of antivirals for treatment for in-patients and out-patients who are at higher risk of developing influenza complications For in-patients who: have severe, complicated influenza-like illness (ILI); Recommended have progressive influenza-like illness; require hospitalisation due to influenza-like illness. For out-patients who are at higher risk of developing influenza complications on the basis of their age or underlying medical conditions: Children < 2 years; No recommendation Women who are pregnant or postpartum (within 6 weeks after delivery); Children < 5 years; Recommended Adults aged ≥65 years; Individuals belonging to risk groups. Residents of nursing homes and other chronic-care facilities.

Use of antivirals for <u>post-exposure</u> prophy	laxis
For family or other close contacts of a person at higher risk for influenza complications who have not been vaccinated with influenza vaccine at the time of exposure;	No recommendation
For unvaccinated healthcare workers with occupational exposure and who did not use personal protective equipment at the time of exposure	No recommendation
Use of antivirals for <u>pre-exposure</u> prophyl	axis
For individuals who are at high risk (e.g. severely immunosuppressed patients) for influenza-related complications who cannot otherwise be protected during times when a high risk for exposure exists	No recommendation
Use of antivirals for <u>control of</u> influenza <u>out</u>	<u>breaks</u>
For individuals in long-term care facilities/care for immunocompromised individuals if not vaccinated or if the circulating influenza strain does not match the vaccine strains	No recommendation
For unvaccinated healthcare staff who provide care to individuals at high risk of developing complications in long-term care facilities/ care for immunocompromised patients if not vaccinated or if the circulating influenza strain does not match the vaccine strains	No recommendation
For all health care staff regardless of whether they received an influenza vaccination if the circulating influenza strain does not match the vaccine strains	No recommendation
Prisoners	No recommendation
Educational institutions	No recommendation
Existence of antiviral resistance surveillance	system
Antiviral resistance surveillance system	There is no antiviral resistance surveillance system in place

Country profiles are based on the <u>Seasonal Influenza Vaccination in Europe</u> report produced by the European Centre for Disease Prevention and Control (ECDC) and the Vaccine European New Integrated Collaboration Effort III (VENICE III). The data are from the seasonal influenza vaccination survey for 2012–13 season in EU/EEA countries. Results above use the same data as was available when the report was published. During the validation process in June 2015, minor changes were introduced in some country profiles. Therefore, data may be different to those available in the report.