

Seasonal influenza vaccination programme country profile: Croatia

2012-13 Season

Background information

Influenza immunisation pol	icy and general facts about Croatia
Volume indices of GDP per capita in 2011 and 2013 (EU-28=100) Source: Eurostat ^a	60 and 61 respectively
Health costs as % of GDP 2011 Source: Eurostat ^b	NA
Total population of the country, 2011 Source: Eurostat ^c	4 284 889
Population ≥65, 2011 Source: Eurostat ^c	758 633 (17.7% from the total population)
Population with chronic medical conditions <65 years, 2006 Source: ECDC (based on methodology by Fleming and Eliot, 2006) ^d	NA
Number of live births in 2011 ^e	41 197 (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 Croatia	
National Action Plan (NAP) as requested by EC	A plan was not developed, but a respective policy is in place
URL link to NAP	na

NA: Not available na: Not applicable EUROSTAT links:

^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

^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: http://www.ecdc.europa.eu/en/publications/Publications/0808 GUI Priority Risk Groups for Influenza Vaccination.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)

^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 g	roups 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, - Neurologic diseases, - Cardiovascular diseases, - Renal diseases, - Hepatic diseases, - Haematological disorders, - Metabolic disorders, - Immunosuppressed individuals, - HIV/AIDS, - Morbid obesity, - Long-term aspirin use (children <18 years).
Pregnancy-related vaccination (including post-partum women)	Recommended only for those with other clinical risk indication at any trimester. Recommended only for those with other clinical risk indication.
Healthcare workers	Recommended: - To all healthcare workers
Other occupational groups	Recommended: - Laboratory workers working in other laboratories (not medical/public health laboratories, but who may work with avian influenza viruses in the environmental/ academic sector)
Population groups in closed communities	Recommended: - For residents of long- term care facilities; No recommendation: - For prisoners; - For children in day care centres.
Household contacts or carer of	For children in day care centres, boarding schools, etc Recommended: Immunosuppressed individuals; Individuals with chronic medical conditions;
	No recommendation: - Infants <6months of age; - ≥65 years 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 (≥50; ≥65 years of age) ^a	National health service	National insurance scheme		
Chronic medical conditions groups (by group) ^a	National health service	National insurance scheme		
Pregnancy-related vaccination (including post- partum women) ^a	National health service	National insurance scheme		
Healthcare workers (including staff of long-stay care facilities) ^a	National health service	National insurance scheme		
Other occupational groups ^a	National health service	National insurance scheme		
Population groups in closed communities ^a	National health service	National insurance scheme		
Household contacts or care givers ^a	National health service	National insurance scheme		

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					Influenz	a seasor	1			
	2008	3–09	2009	9–10	2010)–11	201	L-12	2012	2 –13 °
	Admin.	Surv.	Admin.	Surv.	Admin.	Surv.	Admin.	Surv.	Admin.	Surv.
Overall population	-	-	-	-	-	-	-	-	na	na
Children/adolescents	-	-	-	-	-	-	-	-	na	na
Older population groups: ≥65 years of age	-	-	-	-	-	-	-	-	30	na
Chronic medical conditions groups	-	-	-	-	-	-	-	-	NA	na
Pregnant women a	-	-	-	-	-	-	-	-	NA	na
Healthcare workers	-	-	-	-	-	_	-	-	19	na
Staff in long-stay care facilities ^b	-	-	-	-	-	-	-	-	NA	na
Residents in long stay care facilities ^b	-	-	-	-	-	-	-	-	NA	na

na: Not applicable

NA: Not available

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

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

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

^c Croatia participated in the seasonal influenza survey for first time in 2014; vaccination coverage data available only for 2012-13 influenza season.

Figure 1. Seasonal influenza vaccination coverage among those ≥65 years of age in the 2012–13 influenza season

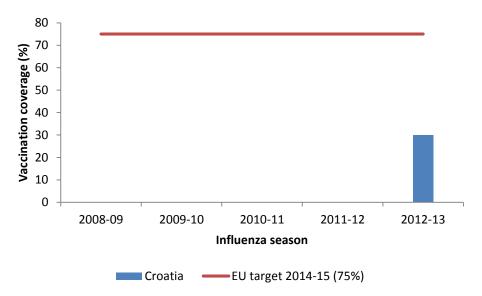
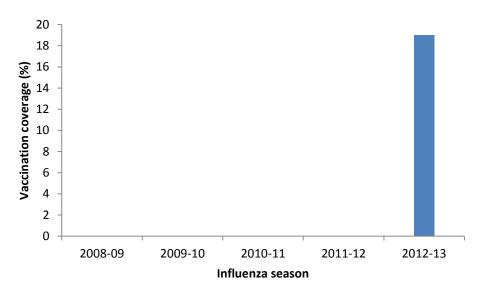


Figure 2. Seasonal influenza vaccination coverage among healthcare workers in the 2012–13 influenza season



Methods to monitor vaccination coverage, safety and effectiveness

Monitoring of vaccinati	on 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		
Adults: aged <u>></u> 65 years old; Healthcare workers;	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 Adults: aged ≥65 years old; Individuals with chronic medical conditions; na na

na: Not applicable

Numerator assessment				
Pharmaceutical data	Administrative data	Frequency of numerator assessment		
Not used	Aggregate collection of number of vaccines administered	Annually (in February)		

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

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

Studies on influenza vaccine effectiveness; Product-specific safety studies I 2010-11; was not published at the time of the survey.

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	Croatian Institute of Public Health and Agency for Medical Products and Medical Devices of Croatia	

Monitoring of influenza vaccine break-through ^a infections in vaccinated individuals				
Data collected Data linkage with immunisation registry Details collected				
There is such a system in place	not possible	Yes, case based data should be reported to the national level		

^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).

Vaccine procurement and delivery

Influenza vaccine procurement and delivery, 2012-13 influenza season				
Number of doses				
Purchased	Distributed	Used		
450 000	445 000	288 440		

NK: Not known

Type of vaccine/Product Name	Target groups			
Trivalent inactivated non-adjuvanted vaccines (TIV)				
Used				
Sanofi Pasteur	Older adults (e.g. ≥60/65 years); Those with medical condition/s; Residents of long-stay care facilities; Healthcare workers			
Trivalent inactivated adj	uvanted vaccines (aTIV)			
Not used				
Trivalent live attenuate	ed nasal vaccine (LAIV)			
Not used				
Quadrivalent attenuate	ed nasal vaccine (LAIV)			
Not used				
Quadrivalent inactivated no	n-adjuvanted vaccine (QIV)			
Not used				

Promoting seasonal influenza vaccination

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

All population through media

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 <u>treatment</u> 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); have progressive influenza-like illness; require hospitalisation due to influenza-like illness. 	na			
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; Children < 5 years; Adults aged ≥65 years; Individuals belonging to risk groups. Women who are pregnant or postpartum (within 6 weeks after delivery). Residents of nursing homes and other chronic-care facilities. 	na			
Use of antivirals for <u>post-exposure</u> prophylaxis				
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;	na			
For unvaccinated healthcare workers with occupational exposure and who did not use personal protective equipment at the time of exposure	na			
Use of antivirals for <u>pre-exposure</u> prophyla	nxis			
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	na			
Use of antivirals for <u>control of</u> influenza <u>outbreaks</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	na			
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	na			
For all health care staff regardless of whether they received an influenza vaccination if the circulating influenza strain does not match the vaccine strains	na			
Prisoners	na			
Educational institutions	na			
Existence of antiviral resistance surveillance system				
Antiviral resistance surveillance system	There is an 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.