

Seasonal influenza vaccination programme country profile: Liechtenstein

2012-13 Season

Background information

Influenza immunisation policy an	d general facts about Liechtenstein
Volume indices of GDP per capita in 2011 and 2013 (EU-28=100) Source: Eurostat ^a	NA
Health costs as % of GDP 2011 Source: Eurostat ^b	NA
Total population of the country, 2011 Source: Eurostat ^c	36 149
Population ≥65, 2011 Source: Eurostat ^c	5 022 (13.9% 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	395 (1.1% 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 Liechtenstein	http://www.bag.admin.ch/ekif/04423/04428/04434/index.html?lang=de
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 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

^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 (popula	tion 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, - Neurologic diseases, - Cardiovascular diseases, - Renal diseases, - Hepatic diseases, - Haematological disorders, - Metabolic disorders, - Immunosuppressed individuals, - HIV/AIDS. No recommendation: - Morbid obesity, - Long-term aspirin use (children <18 years).
Pregnancy-related vaccination (including post-partum women)	Recommended: - For all pregnant women No recommendation: - For all postpartum women if not vaccinated during pregnancy.
Healthcare workers	Recommended: - For all healthcare workers
Other occupational groups	Recommended: - Educational staff; - Laboratory workers working in other laboratories (not medical/public health laboratories, but who may work with avian influenza viruses in the environmental/academic sector); - Poultry and swine industry workers; For families raising swine, poultry of geese. - Whoever wishes to minimise their risk of influenza.
Population groups in closed communities	Recommended: For residents of long- term care facilities; No recommendation: For prisoners; For children in day care centres, boarding schools.
Household contacts or carer of:	Recommended: Infants <6months of age; Immunosuppressed individuals; Individuals with chronic medical conditions; ≥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 (≥65 years of age) ^a	Private health insurance	Private health insurance		
Chronic medical conditions groups (by group)a	Private health insurance	Private health insurance		
Pregnancy-related vaccination (including post- partum women) ^a	Private health insurance	Private health insurance		
Healthcare workers (including staff of long-stay care facilities) ^b	Employer	Employer		
Other occupational groups ^b	Employer	Employer		
Population groups in closed communities ^a	Private health insurance	Private health insurance		
Household contacts or care givers ^a	Private health insurance	Private health insurance		

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)

Danielation and	Population group Influenza season									
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	na	na	na	na	na	na	na	na
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	na	na	na	na	na	na	na	na	NA	NA
Pregnant women ^a	-	-	-	-	na	na	na	na	NA	NA
Healthcare workers	na	na	na	na	na	na	na	na	NA	NA
Staff in long-stay care facilities ^b	-	-	-	-	-	-	na	na	NA	NA
Residents in long stay care facilities ^b	-	-	-	-	-	-	na	na	NA	NA

na: Not applicable

NA: Not available

^a Co-payment for vaccine and vaccine administration exist: 10% of the cost.

^b 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.

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 Vaccination coverage in adults is not monitored

Method used (administrative, survey) to monitor vaccination coverage by population group				
Administrative Survey				
Residents of long term care institutions Details not specified				

Details on administrative method used (medical records vs. immunisation registry; manual vs. electronic) by population group				
Medical records Immunisation registry				
Manual	Electronic	Manual	Electronic	
Residents of long term care institutions	No	No	No	

Numerator assessment			
Pharmaceutical data	Administrative data	Frequency of numerator assessment	
Not used	Payment/ reimbursement claims	Children and adolescents annually, others rarely.	

Denominator assessment by population groups and data source			
Population group	Data source for population group		
Entire population	Used. National central statistical data.		
Children and adolescents	Used. National population registry/ies.		
Adults	Not used		
Individuals with medical/risk conditions (clinical risk groups)	Not used		
Pregnant women	Not used		
Health care workers	Not used		
Essential public sector workers	Not used		
Prisoners	Not used		
Residents of long term care institutions	Used. Reports of long term care institutions, estimate only.		
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				
Not specified	Not specified	Not specified	Not specified	

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	Not possible	Case based data with a personal identifier and suspected symptoms should be reported	Mandatory	National Agency for Therapeutic Products	

Monitoring of influenza vaccine break-through ^a infections in vaccinated individuals				
Data collected 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					
NK	NK NK NK				

NK: Not known

Type of vaccine/Product Name	Target groups	
Trivalent inactivated non-adjuvanted vaccines (TIV)		
Used		
GlaxoSmithKline; Sanofi Pasteur; Novartis (non-adjuvanted)	Children and adolescents; Older adults (e.g. ≥60/65 years); Those with medical condition/s; Pregnant women; Residents of long stay care facilities; Health Care Workers	
Trivalent inactivated adjuvanted vaccines (aTIV)		
Used		
Crucell (virosomal vaccines); Novartis (adjuvanted/Squalene (MF59); Abott	Children and adolescents; Healthy adults; Older adults (e.g. ≥60/65 years); Those with medical condition/s; Pregnant women; Residents of long stay care facilities; Health Care Workers;	
Trivalent live attenuated nasal vaccine (LAIV)		
Not used		
Quadrivalent atte	nuated nasal vaccine (LAIV)	
Not used		
Quadrivalent inactivated non-adjuvanted vaccine (QIV)		
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).

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; Newspapers; Leaflets; Posters; Website	
Population over 65		
Yes	Radio; Newspapers; Leaflets; Posters; Website	
Pregnant women		
Yes	Radio; Newspapers; Leaflets; Posters; Website	
Chronic medical conditions		
Yes	Radio; Newspapers; Leaflets; Posters; Website	
Healthcare workers		
Yes	Leaflets; Posters; Website; Professional medical societies; National medical publications	

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. 	Recommended		
For out-patients who are at higher risk of developing influenza complications on the basis of their age or underlying medical conditions:			
- Individuals belonging to risk groups.	Recommended		
 Children < 2 years; Children < 5 years; Adults aged ≥65 years; Women who are pregnant or postpartum (within 6 weeks after delivery). Residents of nursing homes and other chronic-care facilities. 	No recommendation		
Use of antivirals for post-exposure 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;	No recommendation		
For unvaccinated healthcare workers with occupational exposure and who did not use personal protective equipment at the time of exposure	Recommended		
Use of antivirals for <u>pre-exposure</u> prophylaxis			
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>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	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. 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.