

Euro Polio Page

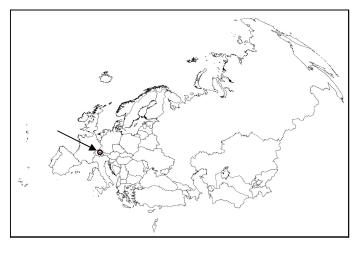
Monthly AFP surveillance bulletin, November 2007

Vaccine-preventable diseases and immunization programme
Division of Health Programmes, World Health Organization, Regional Office for Europe
Copenhagen, Denmark

Wild poliovirus isolated in Switzerland's sewer system; insignificant risk of outbreak

The Swiss public health authorities have reported the isolation of a wild poliovirus from the sewage water of a Geneva city water treatment plant in a sample collected on 13 August 2007. Due to high vaccination coverage and good sanitation, this isolation does not represent a significant risk of outbreak for Switzerland.

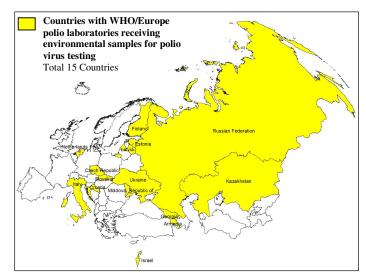
The virus is genetically closely related to the ongoing polio transmission in Chad. The Swiss authorities have taken measures appropriate for the detection of poliovirus from environmental sampling, including heightened surveillance and assessment of polio immunisation coverage of communities where the virus was detected and in surrounding areas. No cases of paralytic polio have been detected.



Similar response measures were taken in Australia in July 2007 where wild poliovirus was isolated from a student who was infected and developed polio in Pakistan. In Singapore, in 2006, wild poliovirus was isolated from a stool sample of a Nigerian child who was infected and developed polio in Nigeria before travelling to Singapore. Neither additional cases nor wild-virus positive contacts were found in either country.

Source: www.polioeradication.org

Environmental surveillance in WHO/Europe



Using WHO polio laboratory network, currently 15 (28%) Member States conduct environmental surveillance for wild polio virus. This surveillance varies in the Member States and represent national in some Member States to only high risk areas in others.

As of week 47 a total of 339 samples (sewage and other environmental) were collected and tested by WHO polio laboratory network in 2007 compare to to 1124 during all of 2006. No wild polio virus isolated from the samples collected in 2006 and 2007; however the wild virus found in sewage water treatment plant in Switzerland was detected by local public health laboratory in Geneva.

In June 2007, the Regional Certification Committee, reminded all governments of the importance of their

full commitment to the eradication of poliomyelitis, including full support for national poliomyelitis laboratories; and explore the possibilities of implementing national or regional supplementary poliomyelitis surveillance (enterovirus and environmental) in countries and/or regions where AFP (Acute Flaccid Paralysis) surveillance is poor or non-existent.

Table 1. AFP/Polio Weekly Reporting European Region (all countries), 2007											
Country	Polio Compatible Cases	% Completeness of Reporting	Week of Last Report	Method of Reporting	Country Using "Priority" Coding						
Albania	0	93%	48	email	yes						
Andorra*	0	77%	40	direct web entry	-						
Armenia	1	85%	48	email	yes						
Austria	0	100%	48	direct web entry	yes						
Azerbaijan	0	93%	48	email	yes						
Belarus	0	100%	48	direct web entry	yes						
Belgium	0	100%	48	direct web entry	-						
Bosnia and Herzegovina	0	72%	48	email	partial						
Bulgaria	0	93%	48	direct web entry	yes						
Croatia*	1	87%	45	direct web entry	yes						
Cyprus	0	100%	48	direct web entry	yes						
Czech Republic	0	60%	47	email							
Denmark	0	0%		DNR	-						
Estonia	0	100%	48	direct web entry	yes						
Finland	0	0%		DNR	-						
France	0	0%		DNR	-						
Georgia	0	91%	48	email	yes						
Germany	0	95%	48	email	yes						
Greece	0	97%	48	direct web entry	partial						
Hungary	0	97%	48	direct web entry	yes						
Iceland	0	0%		DNR	-						
Ireland	0	100%	48	direct web entry	yes						
Israel	0	93%	48	email	yes						
Italy	0	97%	48	direct web entry	yes						
Kazakstan	0	89%	48	email	yes						
Kyrgyzstan	0	35%	45	email	yes						
Latvia	0	97%	48	direct web entry	yes						
Lithuania	0	93%	48	direct web entry	yes						
Luxembourg	0	0%		DNR	-						
Malta*	0	58%	44	email	yes						
Monaco	0	0%		DNR	-						
Montenegro	0	70%	48	email	-						
Netherlands	0	0%		DNR	-						
Norway	0	97%	48	direct web entry	yes						
Poland	0	100%	48	direct web entry	yes						
Portugal	0	50%	24	email	partial						
Republic of Moldova	0	91%	48	direct web entry	yes						
Romania	0	100%	48	direct web entry	partial						
Russian Federation	0	91%	48	email	yes						
San Marino	0	0%		DNR	-						
Serbia	0	93%	48	email	partial						
Slovak Republic	0	97%	48	direct web entry	yes						
Slovenia*	0	97%	48	direct web entry	-						
Spain	0	100%	48	direct web entry	yes						
Sweden	0	100%	48	direct web entry	-						
Switzerland	0	95%	46	direct web entry	yes						
Tajikistan	0	91%	48	email	yes						
T.F.Y.R.Macedonia	0	87%	48	email	no						
Turkey	0	97%	48	email	yes						
Turkmenistan	0	93%	48	email	yes						
Ukraine	0	81%	48	email	yes						
United Kingdom	0	0%		DNR	-						
Uzbekistan	0	83%	48	email	yes						
Average/Totals	2	92%									
-	1										

Shaded country name indicates country classified as endemic / recently endemic by the Regional Certification Commission in 1996.

* No AFP cases reported to WHO Regional Office for Europe.

DNR-do not report AFP surveillance data.

TABLE 2. AFP Reporting - European Region, Countries with AFP Surveillance, 2006-2007											
2006 (Weeks 1 - 52) 2007 (Weeks 1 - 48)											
Country	Non-Polio AFP Rate*	% With 2 Stool Specimens**	Surveillance Index***	Number of AFP Cases	Number of Cases Pending §	Number of Cases Priority Pending §§	Non- Polio AFP Rate*	% With 2 Stool Specimens**	Surveillance Index***		
Albania	0.36	100%	0.36	9	0	0	1.17	100%	1		
Andorra	0	0%	0	0	0	0	0	0%	0		
Armenia	0	0%	0	14	1	0	2.39	62%	0.92		
Austria	0.72	56%	0.48	3	0	0	0.26	33%	0.09		
Azerbaijan	0.86	94%	0.81	23	0	0	1.19	100%	1		
Belarus	2.73	92%	0.92	49	2	1	3.74	92%	0.94		
Belgium	0.35	17%	0.06	6	4	0	0.37	0%	0.06		
Bosnia and Herzegovina	0.63	100%	0.63	0	0	0	0	0%	0		
Bulgaria	1.83	84%	0.84	12	10	0	1.26	100%	1		
Croatia	0	0%	0	1	0	0	0	0%	0		
Cyprus	1.83	67%	1	1	0	0	0.66	100%	0.66		
Czech Republic	1.03	87%	1	7	0	0	0.52	86%	0.52		
Estonia	0.51	100%	0.51	0	0	0	0	0%	0		
Georgia	1.11	100%	1	12	0	0	1.62	83%	0.83		
Germany	0.55	44%	0.3	56	0	0	0.51	31%	0.23		
Greece	1.2	74%	0.74	14	0	0	0.94	64%	0.61		
Hungary 	0.96	40%	0.58	8	0	0	0.56	38%	0.56		
Ireland	1.06	22%	0.56	2	0	0	0.25	50%	0.12		
Israel	0.9	6%	0.58	9	0	0	0.5	0%	0.17		
Italy	0.64	65%	0.44	56	7	1	0.73	57%	0.52		
Kazakhstan	1.5	94%	0.96	53	0	0	1.72	96%	0.98		
Kyrgyzstan	1.7	96%	1	30	0	0	1.95	97%	1		
Latvia	0.92 2.36	100% 46%	0.92 0.85	2 13	0	0	0.67 2.61	100% 62%	0.67 1		
Lithuania	0	0%	0.85	0	0	0	0	0%	0		
Malta	1.58	100%	1	0	0	0	0	0%	0		
Montenegro	1.22	27%	0.73	4	2	0	0.47	25%	0.36		
Norway	1.08	71%	0.73	34	1	0	0.47	53%	0.36		
Poland	0.3	60%	0.82	4	4	0	0.0	25%	0.43		
Portugal Republic of Moldova	0.81	83%	0.68	14	1	1	2.09	93%	0.93		
Romania	1.16	95%	0.95	16	0	0	0.53	88%	0.46		
B . E:	1.93	90%	0.92	356	87	18	1.77	92%	0.93		
Serbia	1.16	86%	1	8	1	0	0.49	75%	0.37		
Slovakia	0.23	100%	0.23	4	0	0	0.5	75%	0.5		
Slovenia	0	0%	0	0	0	0	0	0%	0		
Spain	0.67	43%	0.4	33	0	0	0.55	58%	0.47		
Switzerland	1.19	7%	0.14	13	0	0	1.1	8%	0.17		
Tajikistan	0.83	100%	0.83	40	11	0	1.69	98%	0.98		
The former Yugoslav Republic of Macedonia	0.77	100%	0.77	4	0	0	1.12	75%	1		
Republic of Macedonia Turkey	0.9	84%	0.77	213	47	3	1.05	85%	0.87		
Turkmenistan	1.25	95%	0.95	25	0	0	1.78	92%	0.92		
Ukraine	1.89	94%	0.95	114	7	1	1.89	95%	0.97		
Uzbekistan	1.15	99%	0.99	101	0	0	1.24	99%	0.99		
Average/Total	1.13	82%	0.86	1363	185	25	1.05	83%	0.88		
Recently Endemic *Annualized rate per 100 000 childre	1.34	91%	0.93	1032	155	23	1.33	91%	0.93		

^{*}Annualized rate per 100 000 children under the age of 15 years. **Bold** = meeting WHO target of 1.0.

^{**}Two stool specimens collected at least 24 hrs. apart within 14 days of onset of paralysis and adequately shipped to the laboratory. **Bold** = meeting WHO target of 80%.

^{***}Index = non-polio AFP rate up to 1.0 x (% first adequate specimens), **Bold** ≥ 0.8

[§] Total number of AFP cases pending final classification 90 days after Date of onset.

^{§§} Number of AFP cases assigned a priority coding and pending.

All indicators are calculated year to date unless specified otherwise.