



AFP SURVEILLANCE

19-Dec-16

Week 50, ending 18 December 2016

Number 950

Table 1: Acute Flaccid Paralysis (AFP) cases by week of onset

Country	Reported AFP cases by week of onset - Week (50/16) / Ending on : 18/12/2016														
	Total AFP 2014	Total AFP 2015	Total AFP to date, 2016	W39 02 Oct 16	W40 09 Oct 16	W41 16 Oct 16	W42 23 Oct 16	W43 30 Oct 16	W44 06 Nov 16	W45 13 Nov 16	W46 20 Nov 16	W47 27 Nov 16	W48 04 Dec 16	W49 11 Dec 16	W50 18 Dec 16
Afghanistan	2421	2738	2763	65	48	48	56	50	59	68	54	48	54	40	8
Bahrain	16	19	14	0	0	0	0	0	0	0	1	1	0	0	
Djibouti	3	3	3												
Egypt	1000	1046	1029	19	14	31	21	21	41	17	33	19	26	18	5
Iran	753	780	729	9	12	19	15	14	15	20	13	15	9	4	0
Iraq	590	520	564	12	7	14	8	17	13	11	10	13	15	2	
Jordan ****	62	90	103	2	2	4	2	2	2	3	3	3	1	3	1
Kuwait	32	32	42	0	1	1	1	0	1	0	3	0	4	2	
Lebanon ****	50	113	105	3	1	4	7	1	2	1	5	1	0	1	
Libya	43	54	61	1	5	1	0	1	2	1	3	2	2	0	
Morocco	103	79	79	1	1	4	2	1	1	1	1	1	3	1	
Oman	34	39	35	0	0	0	1	0	0	1	0	0	0	0	
Pakistan	5370	5814	6879	157	133	162	175	172	136	136	167	157	87	26	
Palestine ****	21	38	45	0	1	0	0	4	0	0	0	0	0	0	0
Qatar	7	11	7	1	0	0	0	0	0	0	0	0	0	0	
Saudi Arabia	227	254	197	1	0	2	9	3	2	1	1	0	0	0	
Somalia	420	281	300	6	6	6	11	7	2	4	4	13	7	2	0
Sudan	442	436	496	12	13	10	8	7	10	10	9	7	8	3	0
Syria ****	306	235	270	7	3	5	3	3	8	4	5	2	3	4	
Tunisia	44	64	82	4	2	1	2	3	2	1	3	1	0		
U.A.E	25	31	39	1	0	0	1	0	3	1	1	2	2	2	0
Yemen	578	537	666	11	14	9	16	11	4	9	10	10	11		
Total EMR	12547	13214	14508	312	263	321	338	317	303	289	326	295	232	108	14

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2014	Total year 2015	18/12		Confirmed polio cases by month of onset											
			2015	2016	January 2016	February 2016	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016	October 2016	November 2016	December 2016
Afghanistan	28	20	19	12	1	2	1	1	1	0	0	2	2	2		
Bahrain	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Djibouti	0	0	0	0	0	0	0	0	0	0	0	0				
Egypt	0	0	0	0	0	0	0	0	0	0	0	0	0			
Iran	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Iraq	2	0	0	0	0	0	0	0	0	0	0	0	0			
Jordan ****	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kuwait	0	0	0	0	0	0	0	0	0	0	0	0	0			
Lebanon ****	0	0	0	0	0	0	0	0	0	0	0	0	0			
Libya	0	0	0	0	0	0	0	0	0	0	0	0	0			
Morocco	0	0	0	0	0	0	0	0	0	0	0	0	0			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	306	54	52	19	2	4	2	3		2	1		2	2	1	
Palestine ****	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
Qatar	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0			
Somalia	5	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sudan	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Syria ****	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Tunisia	0	0	0	0	0	0	0	0	0	0	0	0	0			
U.A.E	0	0	0	0	0	0	0	0	0	0	0	0	0			
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total EMR	342	74	71	31	3	6	3	4	1	2	1	2	4	4	1	0

**** UNRWA cases are included with those of country of residence



Table 3: Investigation of AFP cases with paralysis onset in 2015 & 2016 up to Week (50/16) / Ending on : 18/12/2016)

COUNTRY	2015												2016												Latest line List Date
	AFP									Specimen	Wild cases ****		AFP									Specimen	Wild cases ****		
	Total AFP cases onset 2015	Case classification					Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralysis	% with *** adequate specimens	Wild P1 Poliovirus	Wild P3 Poliovirus	Total AFP cases onset 2016	Case classification					Annualized Non polio AFP rate **	AFP cases pending classification > 90 days from onset of paralysis	AFP cases pending classification and lab > 90 days from onset of paralysis	% with *** adequate specimens	Wild P1 Poliovirus	Wild P3 Poliovirus	
		Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV								Total Confirmed Polio Cases *	Polio Compatible	Pending Classification	Discarded (non polio AFP)	VDPV							
Afghanistan	2738	20	3	0	2715	0	13.8	0	0	93.0	20	0	2763	12	0	189	2561	1	14.4	8	1	92.4	12	0	18/12/2016
Bahrain	19	0	0	0	19	0	7.0	0	0	94.7	0	0	14	0	0	2	12	0	5.3	0	0	100.0	0	0	15/12/2016
Djibouti	3	0	0	0	3	0	1.0	0	0	66.7	0	0	3	0	0	2	1	0	1.0	2	0	33.3	0	0	10/09/2016
Egypt	1046	0	0	0	1045	1	3.0	0	0	94.2	0	0	1029	0	0	185	844	0	2.8	3	0	90.9	0	0	15/12/2016
Iran	780	0	0	0	779	1	4.3	0	0	96.9	0	0	729	0	0	14	715	0	4.1	0	0	95.3	0	0	18/12/2016
Iraq	520	0	0	0	518	2	3.6	0	0	81.9	0	0	564	0	0	66	497	1	4.0	19	1	81.2	0	0	17/12/2016
Jordan	90	0	0	0	90	0	3.2	0	0	96.7	0	0	103	0	0	26	77	0	3.8	2	0	100.0	0	0	18/12/2016
Kuwait	32	0	0	0	32	0	3.7	0	0	96.9	0	0	42	0	0	11	31	0	5.0	2	0	78.6	0	0	11/12/2016
Lebanon	113	0	0	0	113	0	5.2	0	0	84.1	0	0	105	0	0	14	91	0	5.6	9	0	81.9	0	0	16/12/2016
Libya	54	0	0	0	54	0	2.6	0	0	94.4	0	0	61	0	0	8	53	0	3.0	1	0	96.7	0	0	17/12/2016
Morocco	79	0	0	1	78	0	0.8	1	0	57.0	0	0	79	0	0	27	52	0	0.8	17	1	62.0	0	0	16/12/2016
Oman	39	0	0	0	39	0	4.5	0	0	97.4	0	0	35	0	0	0	35	0	4.2	0	0	80.0	0	0	14/12/2016
Pakistan	5814	54	11	0	5745	4	7.4	0	0	87.2	54	0	6879	19	1	387	6471	1	9.1	88	8	88.8	19	0	17/12/2016
Palestine	38	0	0	0	38	0	2.2	0	0	92.1	0	0	45	0	0	5	40	0	2.5	0	0	97.8	0	0	18/12/2016
Qatar	11	0	0	0	11	0	3.7	0	0	100.0	0	0	7	0	0	3	4	0	2.4	1	0	100.0	0	0	11/12/2016
Saudi Arabia	254	0	0	0	254	0	2.7	0	0	98.0	0	0	197	0	0	33	164	0	2.1	10	10	98.0	0	0	13/12/2016
Somalia	281	0	1	0	280	0	4.9	0	0	96.1	0	0	300	0	0	20	279	1	5.4	0	0	99.3	0	0	18/12/2016
Sudan	436	0	0	0	436	0	2.6	0	0	97.2	0	0	496	0	0	16	480	0	3.0	0	0	97.6	0	0	18/12/2016
Syria	235	0	0	0	235	0	3.0	0	0	90.2	0	0	270	0	0	15	255	0	3.6	0	0	87.4	0	0	15/12/2016
Tunisia	64	0	0	0	64	0	2.4	0	0	85.9	0	0	82	0	0	12	70	0	3.2	1	0	78.0	0	0	07/12/2016
U.A.E	31	0	0	0	31	0	3.0	0	0	90.3	0	0	39	0	0	6	33	0	4.0	0	0	100.0	0	0	19/12/2016
Yemen	537	0	0	0	537	0	4.1	0	0	90.7	0	0	666	0	0	121	544	1	5.3	4	0	91.1	0	0	10/12/2016
EMR	13214	74	15	1	13116	8	5.4	1	0	90.2	74	0	14508	31	1	1162	13309	5	6.1	167	21	90.3	31	0	
2014	12546	342	59	0	12116	30	4.9	0	0	90.7	342	0													

* Confirmed polio cases refer to wild isolation from AFP cases or from contacts of negative index AFP cases

** Non-polio AFP per 100,000 children <15 years

*** Adequate here refers to two stool specimens collected at least 24 hours apart, within 14 days of paralysis onset

**** AFP cases co infected with P1 and P3 are counted separately as wild isolates



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Table 4 (a): Last wild contacts in EMRO, 01/01/2016 - 18/12/2016

Year	Country	Data	
		Count of wild contacts	Date of Most Recent stool collection
2015	Afghanistan	9	13-01-16
	Pakistan	2	27-07-15
2015 Total		11	13-01-16
2016	Pakistan	5	25-11-16
	Afghanistan	4	07-10-16
2016 Total		9	25-11-16

Table 4 (b): Number and distribution by district of -ve index AFP cases identified as wild positive by contact in EMR, 2015-2016

YEAR	COUNTRY	PROVINCE	DISTRICT	COUNT	First case	Last case	
2015	AFG	FARAH	GULESTAN	1	23-04-15	23-04-15	
			BAKWA	1	21-04-15	21-04-15	
		KANDAHAR	SHAHWALIKOT	1	20-12-15	20-12-15	
	AFG Total				3	21-04-15	20-12-15
	PAK	KHYBER PAKHTOON	PESHAWAR	1	08-06-15	08-06-15	
			TANK	1	25-01-15	25-01-15	
PAK Total				2	25-01-15	08-06-15	
2016	AFG	KUNAR	SHIGAL WA SHEL TAN	1	26-02-16	26-02-16	
			NAWZAD	1	23-01-16	23-01-16	
		PAKTIKA	BERMEL	1	01-09-16	01-09-16	
	AFG Total				3	23-01-16	01-09-16
	PAK	KHYBER PAKHTOON	KOHISTAN	1	03-09-16	03-09-16	
			SINDH	BADIN	1	10-10-16	10-10-16
PAK Total				2	03-09-16	10-10-16	



Table 5: Laboratory investigation of AFP cases with paralysis onset in 2016 up to Week (50/16) / Ending on : (18/12/2016)

Country	Polio laboratories Sequencing performed by CDC and RIVM laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results #										Indicators				Latest report Date			
			Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD	% specimens positive for NPEV*		% AFP cases with culture results within 14 days	% AFP cases with ITD results within 7 days	% AFP cases with ITD results within 45 days of onset**
			L20B+	L20B+/NPEV			received < / = 14 days	received > 14 days ago	Wild	Sabin	VPV	Wild	Sabin	VPV	Wild	Sabin	VPV									
Afghanistan	RRL Pakistan	2696	205	32	545	1798	110	6	9	128		19	1	148		1	3			19%	96%	97%	97%	17/12/2016		
Bahrain	PNL Oman	12	1			11												1		0%	100%		82%	13/12/2016		
Djibouti	NPL Kenya	1			1															100%			100%	10/09/2016		
Egypt***	RRL Egypt	1010	31	1	153	702	36	86		11		7		17		1	5	2		13%	99%	100%	99%	15/12/2016		
Iran	NPL Iran	741	10		14	697	20			5		1		5		2				2%	100%	100%	99%	18/12/2016		
Iraq	RRL Egypt	556	18		53	457	23	5		8		10	1	10						12%	100%	100%	85%	15/12/2016		
Jordan	RRL Tunisia	103	4		10	85	4			6				3						10%	100%	100%	100%	15/12/2016		
Kuwait	RRL Kuwait	42	1		1	40												1		1%	76%		90%	10/11/2016		
Lebanon	NPL Jordan	107	3		8	92	2	3												6%	100%		100%	15/12/2016		
Libya	RRL Tunisia	56	2		3	48		3		2										6%	100%	100%	98%	09/12/2016		
Morocco	RRL Tunisia	72	2		4	64	1	1										1		10%	96%	67%	93%	17/12/2016		
Oman	NPL Oman	38			9	27	1	1												18%	100%		100%	13/12/2016		
Pakistan	RRL Pakistan	6949	394	38	1472	4755	285	2	17	226		33	1	268		1	8			19%	98%	98%	97%	17/12/2016		
Palestine & UNRWA		45			5	40														11%	30%		98%	18/12/2016		
Qatar	NPL Oman	7			1	6														14%	100%		100%	13/12/2016		
Saudi Arabia	NPL Oman	188			6	174		8						1						3%	99%	100%	88%	30/10/2015		
Somalia	NPL Kenya	300	10	13	44	213	7	13		11		9	1	16				1		20%	11%		98%	18/12/2016		
Sudan	RRL Egypt	479	2		69	394		14		1				2						14%	87%	100%	67%	04/12/2016		
Syria	RRL Egypt	285	7		14	257	1	6		3		1		4						4%	100%	100%	78%	15/12/2016		
Tunisia	RRL Tunisia	82	1		4	74	1	3												5%	100%	100%	96%	09/12/2016		
U.A.E	NPL Oman	32			3	29														8%	100%		97%	13/12/2016		
Yemen	RRL Egypt	616	16	4	133	409		54		6		3	1	10			2	1		19%	66%	100%	51%	15/12/2016		
Total EMR 2016		14417	707	88	2552	10372	491	205	26	407		83	5	484		5	18	3	4	16%	94%	98%	95%			
Total EMR 2015		12989	743	97	2319	9815		12	69	362		188	8	415		4	31	10	2	16%	91%	99%	93%			

* Specimens from all sources including non-AFP cases, excluding environmental samples

** This indicator reflects surveillance and laboratory activities



Table 6: Environmental isolate by year and type

Country	Status	2010	2011	2012	2013	2014	2015	2016
AFG	NEGATIVE				9	78	129	155
	PENDING							15
	WILD					17	20	
AFG Total					9	95	149	170
EGY	NEGATIVE	183	178	196	304	410	412	427
	PENDING							42
	WILD			2				
	VDPV1			1		1		
	VDPV2			7	3	2	3	1
EGY Total		183	178	206	307	413	415	470
JOR	NEGATIVE							2
	PENDING							
JOR Total								2
LEB	NEGATIVE							3
	PENDING							
LEB Total								3
PAK	NEGATIVE	77	68	151	257	237	347	418
	PENDING							30
	WILD	79	136	88	63	125	79	53
	WILD & VDPV2				2	6	5	1
	VDPV2					4	8	4
PAK Total		156	204	239	322	372	439	506
EMR	NEGATIVE	260	246	347	570	725	888	1003
	PENDING							87
	WILD	79	136	90	63	142	99	53
	WILD & VDPV2				2	6	5	1
	VDPV1			1		1		
VDPV2			7	3	6	11	5	
EMR Total		339	382	445	638	880	1003	1151

Table 7: Environmental Wild/VDPV isolate by site

Year	Country	Status	Province	District	Count	First date	Last date	
2015	AFG	WILD1	HILMAND	LASHKARGAH	7	25-01-15	25-11-15	
				NAHR-E-SARAJ	3	24-01-15	19-09-15	
				KABUL	1	27-12-15	27-12-15	
				KANDAHAR	3	04-01-15	26-08-15	
				ASADABAD	1	25-10-15	25-10-15	
				BEHSUD	1	25-10-15	25-10-15	
	JALALABAD	4	22-02-15	27-12-15				
	AFG Total				20	04-01-15	27-12-15	
	EGY	VDPV2	CAIRO	EL SAFF	1	16-06-15	16-06-15	
				AL WASLA	1	04-02-15	04-02-15	
				RED SEA	1	26-05-15	26-05-15	
	EGY Total				3	04-02-15	16-06-15	
	PAK	WILD1	BALOCHISTAN	KABDULLAH	3	15-01-15	01-06-15	
				QUETTA	12	12-01-15	28-10-15	
				CDA	2	12-01-15	17-08-15	
PUNJAB				DIKHAN	3	04-03-15	04-08-15	
				PESHAWAR	11	03-01-15	11-12-15	
				LAHORE	4	12-01-15	12-10-15	
SINDH		MULTAN	4	08-04-15	31-08-15			
		RAWALPINDI	5	10-03-15	14-12-15			
		HYDERABAD	2	03-02-15	03-12-15			
		JACOBABAD	5	08-01-15	04-11-15			
		KHIGADAP	16	06-01-15	22-12-15			
		KHIGIQBAL	6	13-01-15	14-12-15			
WILD1 & VDPV2	SUKKUR	6	06-01-15	11-09-15				
	QUETTA	3	28-03-15	12-12-15				
	PESHAWAR	1	26-02-15	26-02-15				
	KHIGADAP	1	22-01-15	22-01-15				
	LAHORE	1	13-04-15	13-04-15				
	KHIGADAP	5	14-01-15	18-03-15				
VDPV2	SINDH	2	08-06-15	07-07-15				
	PAK Total			92	03-01-15	22-12-15		
	2015 Total			115	03-01-15	27-12-15		
2016	EGY	VDPV2	SOUTH SINAI	AL-TUR	1	15-03-16	15-03-16	
				EGY Total	1	15-03-16	15-03-16	
	PAK	WILD1	BALOCHISTAN	KABDULLAH	5	15-01-16	15-11-16	
				PISHIN	4	02-08-16	16-09-16	
				QUETTA	11	12-02-16	20-11-16	
				KHYBER PAKHTUNKHWA	DIKHAN	1	16-07-16	16-07-16
					PESHAWAR	8	11-01-16	10-11-16
					DERA GHAZI KHAN	1	12-05-16	12-05-16
		SINDH	FAISALABAD	2	03-02-16	02-07-16		
			LAHORE	3	05-08-16	18-10-16		
			MULTAN	1	08-11-16	08-11-16		
			RAWALPINDI	3	14-04-16	08-11-16		
			HYDERABAD	1	05-01-16	05-01-16		
			JACOBABAD	3	04-02-16	16-08-16		
			KHIGADAP	5	27-01-16	14-07-16		
KHIGIQBAL	2	18-01-16	15-03-16					
WILD1+VDPV2	SUKKUR	3	12-01-16	19-03-16				
	QUETTA	1	20-10-16	20-10-16				
	QUETTA	3	20-06-16	28-11-16				
VDPV2	BALOCHISTAN	1	11-07-16	11-07-16				
	HYDERABAD	1	11-07-16	11-07-16				
PAK Total			58	05-01-16	28-11-16			
2016 Total			59	05-01-16	28-11-16			



Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2016 - 18/12/2016

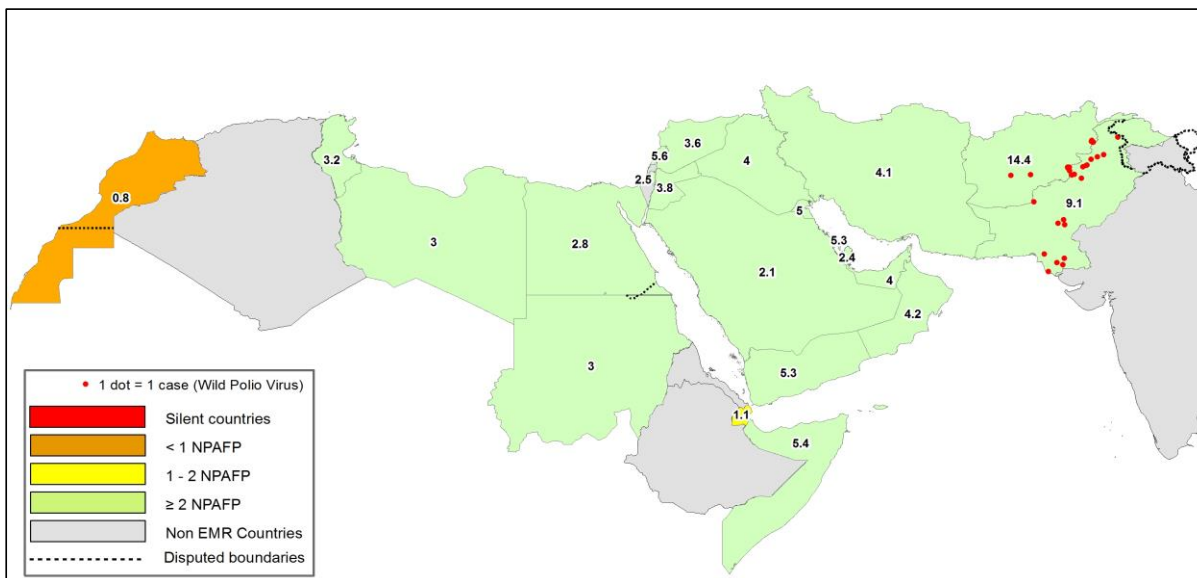


Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2016 - 18/12/2016

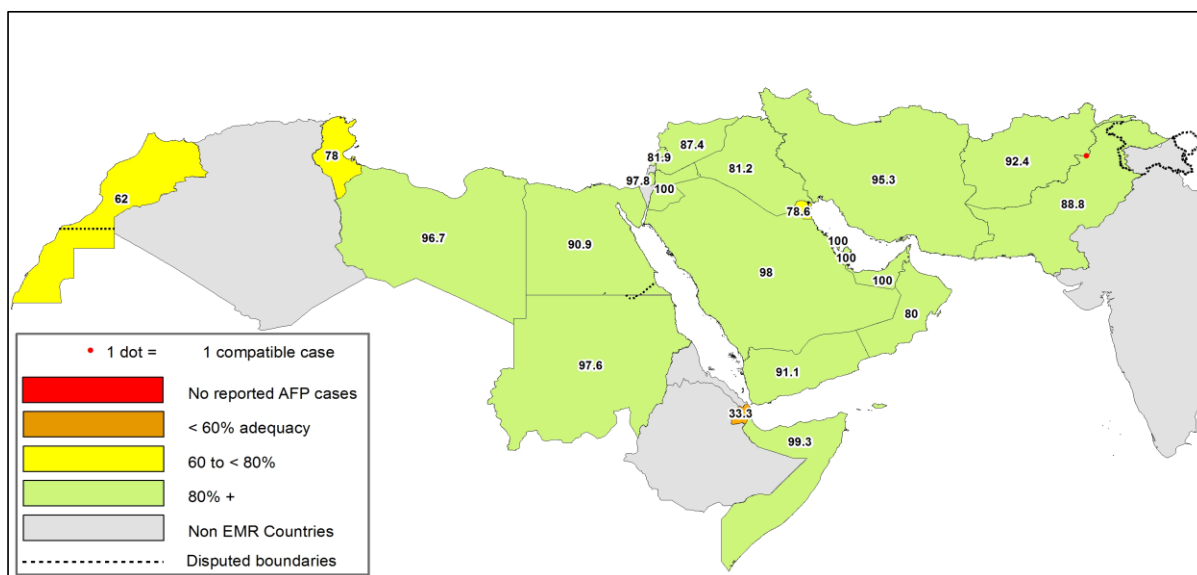


Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2015-2016

Year	COUNTRY	P1		
		Count	First Case	Last Case
2015	AFG	20	21-01-15	20-12-15
	PAK	54	03-01-15	31-12-15
2015 Total		74	03-01-15	31-12-15
2016	AFG	12	23-01-16	12-10-16
	PAK	19	17-01-16	03-11-16
2016 Total		31	17-01-16	03-11-16

Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012



Figure 3: Non Polio AFP rate by District in Afghanistan & Pakistan 01/01/2016 - 18/12/2016

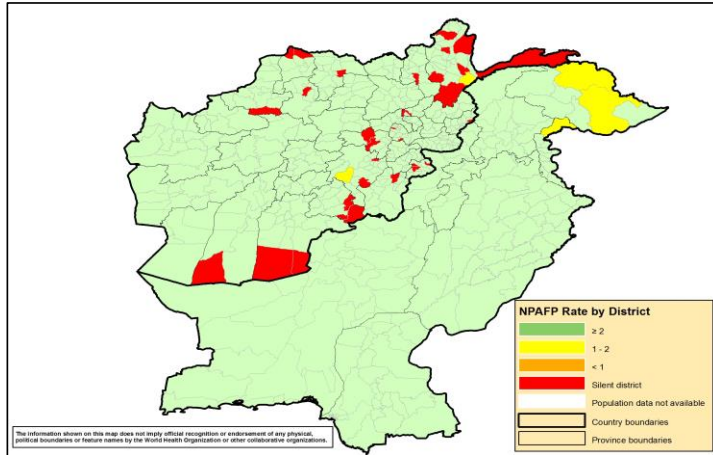


Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2016 - 18/12/2016

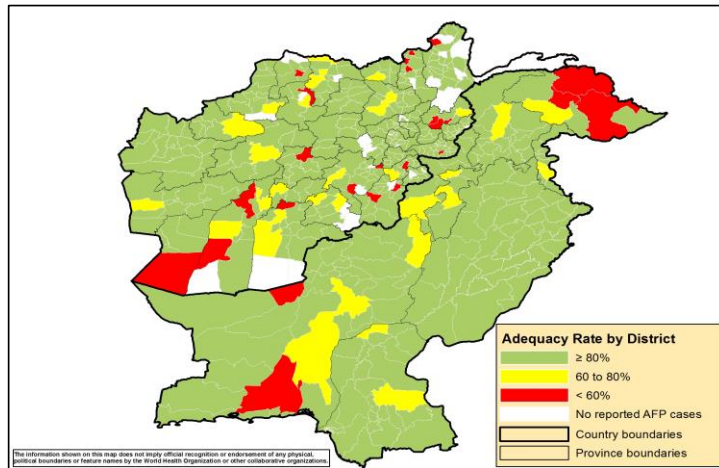
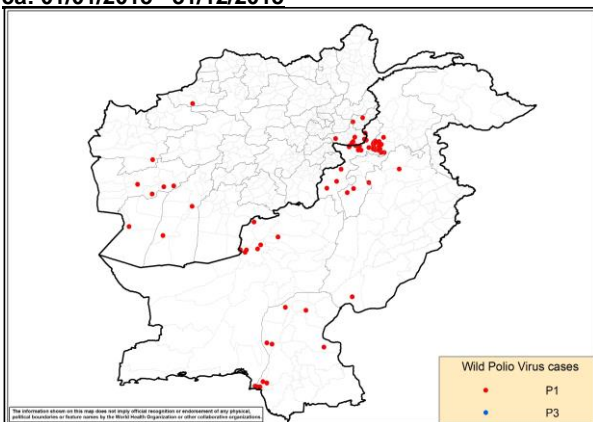


Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan

5a: 01/01/2015 - 31/12/2015



5b: 01/01/2016 - 18/12/2016

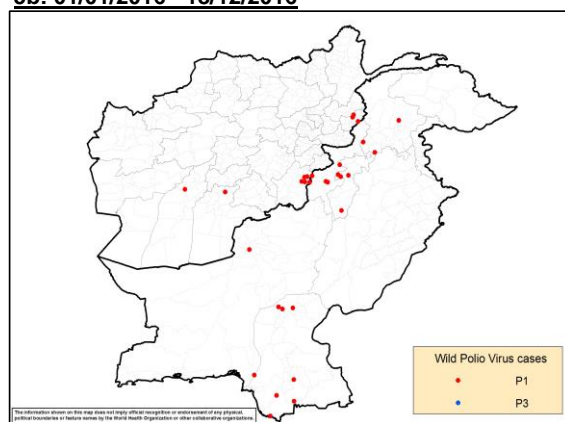




Table 9: Wild Polio cases by district and date of onset of paralysis, Afghanistan 2015-2016

ONSETYR	PROVINCE	DISTRICT	Count	First case	Last case
2015	KANDAHAR	SHAHWALIKOT	1	20-12-15	20-12-15
		KUNAR	CHAPADARA	1	19-11-15
	NANGARHAR	DARA-E-PECH	1	03-11-15	03-11-15
		LALPUR	1	27-10-15	27-10-15
		MUHMAND DARA	1	14-10-15	14-10-15
		SHERZAD	1	06-09-15	06-09-15
		BATIKOT	1	04-09-15	04-09-15
	FARYAB	ACHIN	4	14-07-15	01-09-15
		QAYSAR	1	22-10-15	22-10-15
	HILMAND	NAHR-E-SARAJ	1	20-10-15	20-10-15
		REG	1	21-01-15	21-01-15
	NIMROZ	ZARANJ	1	07-08-15	07-08-15
	HIRAT	SHINDAND	1	27-06-15	27-06-15
	FARAH	BALABULUK	1	07-06-15	07-06-15
GULESTAN		2	23-04-15	05-05-15	
BAKWA		1	21-04-15	21-04-15	
2015 Total			20	21-01-15	20-12-15
2016	PAKTIKA	BERMEL	6	02-08-16	12-10-16
		KUNAR	SHIGAL WA SHEL TAN	4	01-02-16
	KANDAHAR	SHAHWALIKOT	1	04-04-16	04-04-16
	HILMAND	NAWZAD	1	23-01-16	23-01-16
2016 Total			12	23-01-16	12-10-16

Table 10: Wild Polio cases by district and date of onset of paralysis, Pakistan 2015-2016

ONSETYR	COUNTRY	PROVINCE	DISTRICT	Count	First case	Last case
2015	PAK	KHYBER PAKHTOON	PESHAWAR	12	17-01-15	31-12-15
			CHARSADA	1	20-04-15	20-04-15
			TANK	2	03-01-15	25-01-15
			LAKKIMRWT	1	07-01-15	07-01-15
			NOWSHERA	1	05-01-15	05-01-15
		PUNJAB	RYKHAN	1	02-12-15	02-12-15
			CHAKWAL	1	11-09-15	11-09-15
		SINDH	KHIBALDIA	2	11-11-15	21-11-15
			KHIGIQBAL	1	18-11-15	18-11-15
			KHAIRPUR	1	02-11-15	02-11-15
			KHIGADAP	2	10-10-15	02-11-15
			KHIKAMARI	1	01-11-15	01-11-15
			KHIGULBERG	1	14-09-15	14-09-15
			DADU	2	10-02-15	19-02-15
			SUKKUR	1	13-02-15	13-02-15
			KAMBAR	1	04-01-15	04-01-15
			BALOCHISTAN	QUETTA	5	20-02-15
		LORALAI		1	09-02-15	09-02-15
		KABDULAH		1	03-02-15	03-02-15
		FATA	KHYBER	11	05-01-15	14-11-15
			FR PESHAWAR	2	14-09-15	22-10-15
WAZIR-S	2		07-01-15	24-05-15		
WAZIR-N	1		06-05-15	06-05-15		
PAK Total			54	03-01-15	31-12-15	
2015 Total			54	03-01-15	31-12-15	
2016	PAK	SINDH	SUJAWAL	2	03-09-16	03-11-16
			BADIN	2	10-10-16	16-10-16
			SHIKARPUR	2	05-03-16	12-04-16
			JACOBABAD	1	10-02-16	10-02-16
			KHIGADAP	1	17-01-16	17-01-16
			KHYBER PAKHTOON	KOHISTAN	1	03-09-16
		DIKHAN		1	06-06-16	06-06-16
		BANNU		3	22-03-16	26-04-16
		PESHAWAR		1	12-02-16	12-02-16
		HANGU		1	09-02-16	09-02-16
		FATA	NOWSHERA	1	22-01-16	22-01-16
			WAZIR-S	2	18-06-16	27-07-16
		BALOCHISTAN	QUETTA	1	01-02-16	01-02-16
		PAK Total			19	17-01-16
2016 Total			19	17-01-16	03-11-16	



Table 11: Circulating VDPV cases and date of onset of paralysis in EMR countries by districts 2015 - 2016

Year	COUNTRY	PROVINCE	DISTRICT	cVDPV2		
				Count	First Case	Last Case
2015	PAK	FATA	KHYBER	1	09/02/2015	09/02/2015
		KHYBER PAKHTOON	HANGU	1	05/02/2015	05/02/2015
			PAK Total	2	05/02/2015	09/02/2015
2015 Total				2	05/02/2015	09/02/2015

Table 12: VDPV2 and Sabin Like 2 isolates, EMRO countries 2016

Country	VDPV2 and SL2 by month, EMR Countries 2016																								
	Source	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
		VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2	VDPV2	SL2
AFG	AFP	1		2		11		3		1							1	1							
AFG	Contact	1				6		2		1															
AFG	ENV	3		2		11																			
BAH	AFP																								
BAH	Contact																								
BAH	ENV																								
DJI	AFP																								
DJI	Contact																								
DJI	ENV																								
EGY	AFP	1		4		1				1															
EGY	Contact			3																					
EGY	ENV	9		19	1	20		5		8															
IRA	AFP									1															
IRA	Contact																								
IRA	ENV																								
IRQ	AFP	2	1	1		5		1													1				
IRQ	Contact	3		1		7		9																	
IRQ	ENV																								
JOR	AFP																								
JOR	Contact																								
JOR	ENV																								
KWT	AFP																								
KWT	Contact																								
KWT	ENV																								
LEB	AFP																								
LEB	Contact																								
LEB	ENV																								
LIB	AFP																								
LIB	Contact																								
LIB	ENV																								
MOR	AFP																								
MOR	Contact																								
MOR	ENV																								
OMA	AFP																								
OMA	Contact				1																				
OMA	ENV																								
PAK	AFP	7		7		16				3								1							
PAK	Contact			1		7		5		1															
PAK	ENV	7		32		27		27		9	1	3	1	1			1	1	1	2	1				
PAL	AFP																								
PAL	Contact																								
PAL	ENV																								
QAT	AFP																								
QAT	Contact																								
QAT	ENV																								
SAA	AFP																								
SAA	Contact																								
SAA	ENV																								
SUD	AFP																								
SUD	Contact																								
SUD	ENV																								
SOM	AFP			1		6		1			1		1							1					
SOM	Contact																								
SOM	ENV																								
SYR	AFP									1															
SYR	Contact																								
SYR	ENV																								
TUN	AFP																								
TUN	Contact																								
TUN	ENV																								
UAE	AFP																								
UAE	Contact																								
UAE	ENV																								
YEM	AFP	1						1		1				1*											
YEM	Contact			1				2		1				1*											
YEM	ENV																								
EMR	AFP	12	1	15		39		6		8		1		1			2	1	1	1					
EMR	Contact	4		7		20		18		3				1											
EMR	ENV	19		53	1	58		32		17	1	3	1	1			1	1	1	2	1				

VDPV2

Two VDPV2 have been isolated from immune-compromised children from EGY not included in this table

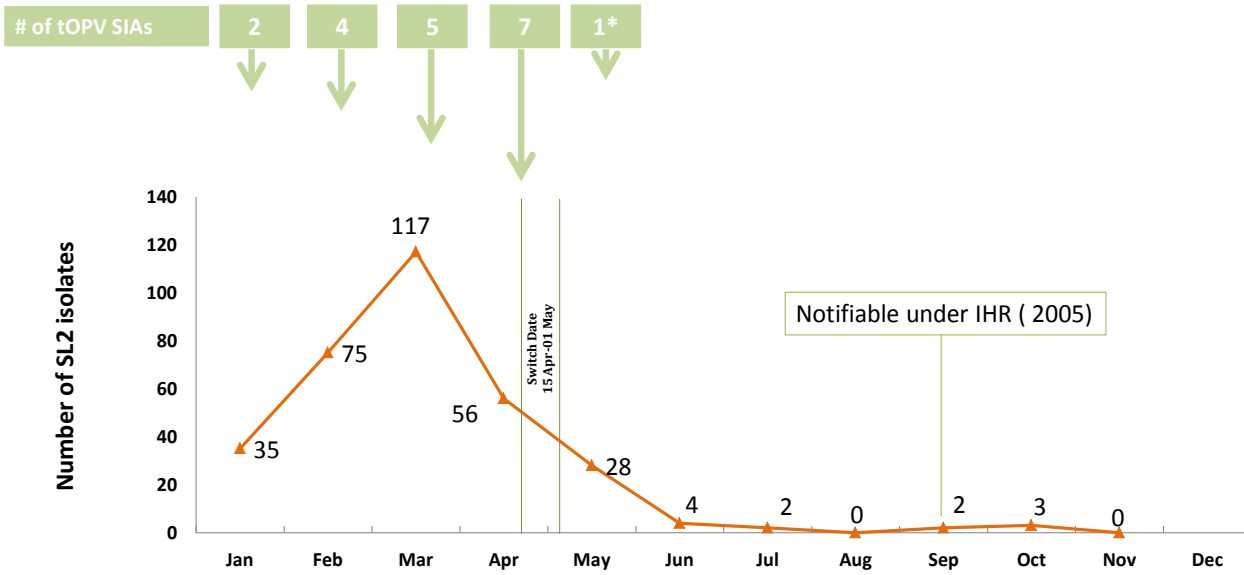
One SL2 has been isolated from an immune-compromised child from EGY in May 2016 but not included in this table

* VPDP2 isolated from index and contact at the same time

Isolation of PV2 in SOM under investigation not reflected in this table



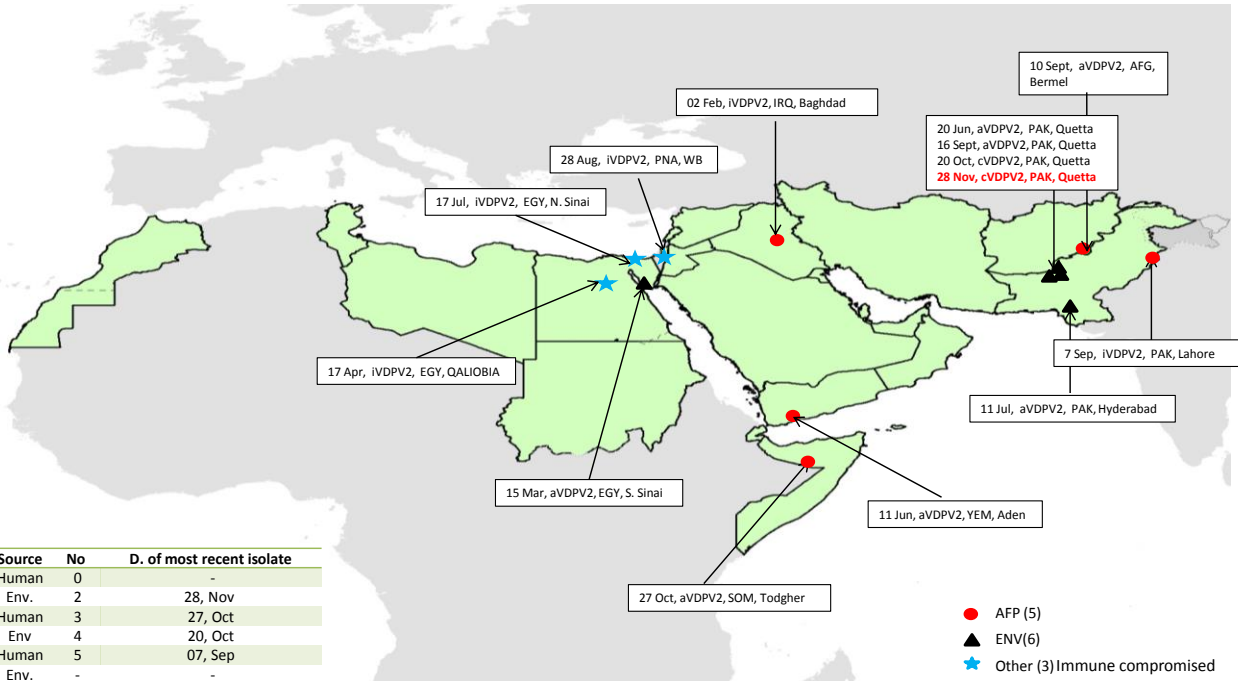
SL2 isolates, EMR countries from Human and ENV 2016



* Focused tOPV campaign in El Tur district (S. Sanai/Egy) as a response to VDPV2 isolation
 PV2 isolated from Somalia are under investigation

18 Dec 2016

VDPV2 isolates, EMR countries, 2016



Type	Source	No	D. of most recent isolate
cVDPV	Human	0	-
	Env.	2	28, Nov
aVDPV	Human	3	27, Oct
	Env.	4	20, Oct
iVDPV	Human	5	07, Sep
	Env.	-	-

● AFP (5)
 ▲ ENV(6)
 ★ Other (3) Immune compromised

18 Dec 2016