



AFP SURVEILLANCE

5-Dec-16

Week 48, ending 4 December 2016

Number 948

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

Country	Reported AFP cases by week of onset - Week (48/16) / Ending on : 04/12/2016														
	Total AFP 2014	Total AFP 2015	Total AFP to date, 2016	W37 18 Sep 16	W38 25 Sep 16	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
Afghanistan	2421	2738	2636	49	46	65	48	48	55	50	58	67	51	28	3
Bahrain	16	19	14	0	0	0	0	0	0	0	0	0	1	1	0
Djibouti	3	3	3												
Egypt	1000	1046	983	21	31	19	14	31	21	21	41	17	33	18	4
Iran	753	780	700	20	13	9	12	20	14	14	15	18	10	4	0
Iraq	590	520	540	3	14	12	7	14	8	16	13	10	10	8	
Jordan ****	62	90	98	0	0	2	2	4	2	2	2	3	3	3	
Kuwait	32	32	35	0	1	0	1	1	1	0	0	0	3		
Lebanon ****	50	113	103	1	2	3	1	4	7	1	2	1	4	1	
Libya	43	54	56	1	2	1	5	1	0	1	2	1	2	0	
Morocco	103	79	67	3	4	1	1	2	1	0	0	0	0	0	
Oman	34	39	34	2	2	0	0	0	1	0	0	0	0	0	
Pakistan	5370	5814	6534	157	190	154	130	159	172	168	127	113	118	35	0
Palestine ****	21	38	44	2	1	0	1	0	0	3	0	0	0		
Qatar	7	11	7	0	1	1	0	0	0	0	0	0	0		
Saudi Arabia	227	254	194	2	4	1	0	2	9	3	1	0	0		
Somalia	420	281	284	5	7	6	6	6	11	7	2	4	4	6	0
Sudan	442	436	481	9	8	12	13	10	8	7	10	10	9	3	0
Syria ****	306	235	259	5	3	7	3	5	2	3	8	3	4	1	
Tunisia	44	64	81	0	3	4	2	1	2	2	2	1	3	1	
U.A.E	25	31	35	0	0	1	0	0	1	0	3	1	1	2	0
Yemen	578	537	635	7	21	11	14	9	16	11	4	5	4		
<b>Total EMR</b>	<b>12547</b>	<b>13214</b>	<b>13823</b>	<b>287</b>	<b>353</b>	<b>309</b>	<b>260</b>	<b>317</b>	<b>331</b>	<b>309</b>	<b>290</b>	<b>254</b>	<b>260</b>	<b>111</b>	<b>7</b>

□ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2014	Total year 2015	04/12		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				
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			
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			
Pakistan	306	54	52	18	2	4	2	3		2	1		2	1	1	
Palestine ****	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			
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			
Sudan	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			
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			
<b>Total EMR</b>	<b>342</b>	<b>74</b>	<b>71</b>	<b>30</b>	<b>3</b>	<b>6</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>0</b>

\*\*\*\* 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 (48/16) / Ending on : 04/12/2016

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	2636	12	0	159	2464	1	14.3	9	0	92.6	12	0	04/12/2016
Bahrain	19	0	0	0	19	0	7.0	0	0	94.7	0	0	14	0	0	2	12	0	5.6	0	0	92.9	0	0	04/12/2016
Djibouti	3	0	0	0	3	0	1.0	0	0	66.7	0	0	3	0	0	2	1	0	1.1	2	0	33.3	0	0	10/09/2016
Egypt	1046	0	0	0	1045	1	3.0	0	0	94.2	0	0	983	0	0	145	838	0	2.8	2	0	90.9	0	0	01/12/2016
Iran	780	0	0	0	779	1	4.3	0	0	96.9	0	0	700	0	0	13	686	0	4.1	0	0	95.3	0	0	04/12/2016
Iraq	520	0	0	0	518	2	3.6	0	0	81.9	0	0	540	0	0	62	477	1	4.0	16	1	81.7	0	0	03/12/2016
Jordan	90	0	0	0	90	0	3.2	0	0	96.7	0	0	98	0	0	29	69	0	3.8	4	0	100.0	0	0	01/12/2016
Kuwait	32	0	0	0	32	0	3.7	0	0	96.9	0	0	35	0	0	5	30	0	4.3	2	0	85.7	0	0	24/11/2016
Lebanon	113	0	0	0	113	0	5.2	0	0	84.1	0	0	103	0	0	25	78	0	5.7	9	0	83.5	0	0	02/12/2016
Libya	54	0	0	0	54	0	2.6	0	0	94.4	0	0	56	0	0	7	49	0	2.9	1	0	96.4	0	0	03/12/2016
Morocco	79	0	0	1	78	0	0.8	1	0	57.0	0	0	67	0	0	27	40	0	0.7	17	1	61.2	0	0	25/11/2016
Oman	39	0	0	0	39	0	4.5	0	0	97.4	0	0	34	0	0	1	33	0	4.2	0	0	82.4	0	0	27/11/2016
Pakistan	5814	54	11	0	5745	4	7.4	0	0	87.2	54	0	6534	18	1	406	6108	1	9.0	83	7	88.9	18	0	04/12/2016
Palestine	38	0	0	0	38	0	2.2	0	0	92.1	0	0	44	0	0	6	38	0	2.5	0	0	97.7	0	0	24/11/2016
Qatar	11	0	0	0	11	0	3.7	0	0	100.0	0	0	7	0	0	3	4	0	2.5	1	0	100.0	0	0	20/11/2016
Saudi Arabia	254	0	0	0	254	0	2.7	0	0	98.0	0	0	194	0	0	30	164	0	2.2	7	7	97.9	0	0	24/11/2016
Somalia	281	0	1	0	280	0	4.9	0	0	96.1	0	0	284	0	0	11	272	1	5.3	0	0	99.3	0	0	04/12/2016
Sudan	436	0	0	0	436	0	2.6	0	0	97.2	0	0	481	0	0	16	465	0	3.1	0	0	97.5	0	0	04/12/2016
Syria	235	0	0	0	235	0	3.0	0	0	90.2	0	0	259	0	0	12	247	0	3.6	0	0	88.0	0	0	03/12/2016
Tunisia	64	0	0	0	64	0	2.4	0	0	85.9	0	0	81	0	0	12	69	0	3.3	0	0	77.8	0	0	02/12/2016
U.A.E	31	0	0	0	31	0	3.0	0	0	90.3	0	0	35	0	0	5	30	0	3.7	0	0	100.0	0	0	04/12/2016
Yemen	537	0	0	0	537	0	4.1	0	0	90.7	0	0	635	0	0	91	543	1	5.3	2	1	91.2	0	0	26/11/2016
EMR	13214	74	15	1	13116	8	5.4	1	0	90.2	74	0	13823	30	1	1069	12717	5	6.0	155	17	90.4	30	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 - 04/12/2016

Year	Country	Data Count of wild contacts	Date of Most Recent stool collection
2016	Pakistan	4	08-10-16
	Afghanistan	4	07-10-16
<b>2016 Total</b>		<b>8</b>	<b>08-10-16</b>

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	DISTRICY	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
	<b>AFG Total</b>			<b>3</b>	<b>21-04-15</b>	<b>20-12-15</b>
	PAK	KHYBER PAKHTOON	PESHAWAR	1	08-06-15	08-06-15
		TANK	1	25-01-15	25-01-15	
<b>PAK Total</b>			<b>2</b>	<b>25-01-15</b>	<b>08-06-15</b>	
2016	AFG	KUNAR	SHIGAL WA SHEL TAN	1	26-02-16	26-02-16
		HILMAND	NAWZAD	1	23-01-16	23-01-16
		PAKTIKA	BERMEL	1	01-09-16	01-09-16
	<b>AFG Total</b>			<b>3</b>	<b>23-01-16</b>	<b>01-09-16</b>
	PAK	KHYBER PAKHTOON	KOHISTAN	1	03-09-16	03-09-16
<b>PAK Total</b>			<b>1</b>	<b>03-09-16</b>	<b>03-09-16</b>	



**Table 5: Laboratory investigation of AFP cases with paralysis onset in 2016 up to Week (48/16) / Ending on : (04/12/2016)**

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	2572	199	30	537	1730	76		9	122			19	1	143		3			19%	96%	97%	97%	03/12/2016		
Bahrain	PNL Oman	12	1			11												1		0%	100%		82%	28/11/2016		
Djibouti	NPL Kenya	1			1															100%			100%	10/09/2016		
Egypt***	RRL Egypt	933	27	1	144	672	9	79	9			7		15		1	3	2		13%	99%	100%	99%	24/11/2016		
Iran	NPL Iran	711	9		14	668	19	1	5			1		5		1				2%	100%	100%	99%	03/12/2016		
Iraq	RRL Egypt	532	18		47	436	23	8	6			9	1	8						11%	100%	100%	88%	01/12/2016		
Jordan	RRL Tunisia	99	4		10	82	3		6					3						11%	100%	100%	100%	03/12/2016		
Kuwait	RRL Kuwait	42	1		1	40												1		1%	76%		90%	10/11/2016		
Lebanon	NPL Jordan	103	3		8	86	4	3												6%	100%		100%	03/12/2016		
Libya	RRL Tunisia	56	2		3	47	4		2											6%	100%	100%	98%	02/12/2016		
Morocco	RRL Tunisia	68	2		4	60	1	1										1		10%	95%	67%	93%	02/12/2016		
Oman	NPL Oman	37			9	27		1												18%	100%		100%	28/11/2016		
Pakistan	RRL Pakistan	6476	353	35	1436	4449	199	3	17	195		33	1	238		8				20%	98%	98%	97%	03/12/2016		
Palestine & UNRWA		44			5	38		1												12%	31%		98%	27/11/2016		
Qatar	NPL Oman	7			1	6														14%	100%		100%	28/11/2016		
Saudi Arabia	NPL Oman	188			6	174		8						1						3%	99%	100%	88%	30/10/2015		
Somalia	NPL Kenya	284	6	13	43	211	8	3	8			9	1	13				1		21%	11%		98%	04/12/2016		
Sudan	RRL Egypt	479	2		69	394	12	2	1					2						14%	87%	100%	67%	04/12/2016		
Syria	RRL Egypt	284	7		14	256	7		2			1		4						4%	100%	100%	88%	01/12/2016		
Tunisia	RRL Tunisia	81			3	73	5													5%	100%		96%	02/12/2016		
U.A.E	NPL Oman	30			2	27	1													5%	100%		97%	28/11/2016		
Yemen	RRL Egypt	570	16	4	120	373		57	6			3	1	10		2	1			20%	63%	100%	51%	24/11/2016		
<b>Total EMR 2016</b>		13609	650	83	2477	9860	371	167	26	362		82	5	442		2	16	3	4	16%	94%	98%	95%			
<b>Total EMR 2015</b>		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**

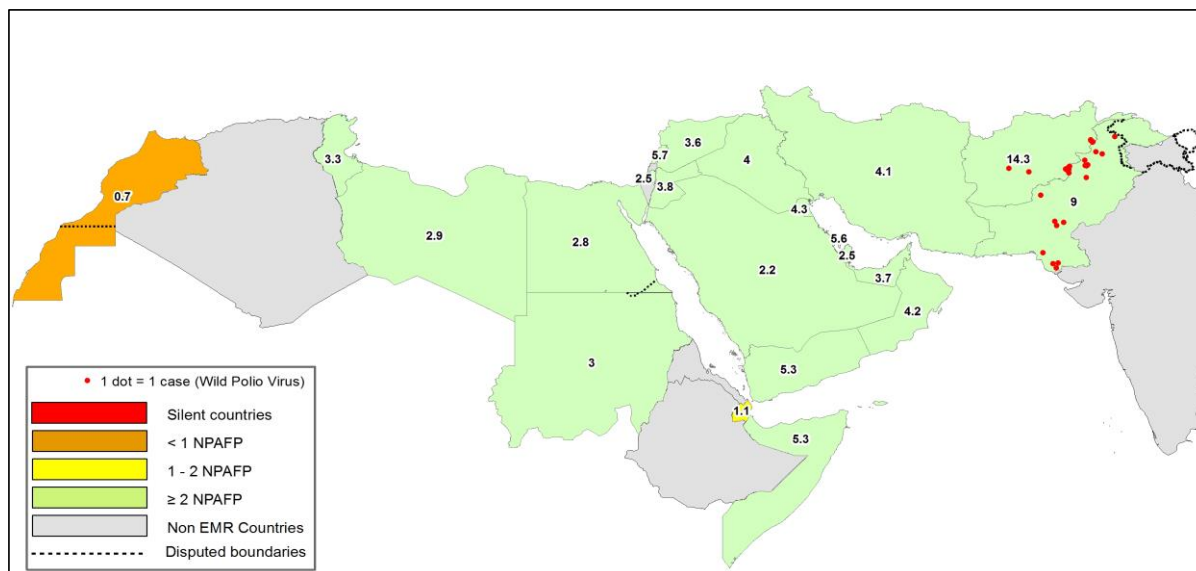
Country	Status	2010	2011	2012	2013	2014	2015	2016
AFG	NEGATIVE				9	78	129	148
	PENDING							
	WILD					17	20	
<b>AFG Total</b>					<b>9</b>	<b>95</b>	<b>149</b>	<b>148</b>
EGY	NEGATIVE	183	178	196	304	410	412	427
	PENDING							42
	WILD			2				
	VDPV1			1		1		
	VDPV2			7	3	2	3	1
<b>EGY Total</b>		<b>183</b>	<b>178</b>	<b>206</b>	<b>307</b>	<b>413</b>	<b>415</b>	<b>470</b>
JOR	NEGATIVE							1
	PENDING							1
<b>JOR Total</b>								<b>2</b>
LEB	NEGATIVE							1
	PENDING							1
<b>LEB Total</b>								<b>2</b>
PAK	NEGATIVE	77	68	151	257	237	347	412
	PENDING							9
	WILD	79	136	88	63	125	79	50
	WILD & VDPV2				2	6	5	1
	VDPV2					4	8	3
<b>PAK Total</b>		<b>156</b>	<b>204</b>	<b>239</b>	<b>322</b>	<b>372</b>	<b>439</b>	<b>475</b>
EMR	NEGATIVE	260	246	347	570	725	888	988
	PENDING							52
	WILD	79	136	90	63	142	99	50
	WILD & VDPV2				2	6	5	1
	VDPV1			1		1		
	VDPV2			7	3	6	11	4
<b>EMR Total</b>		<b>339</b>	<b>382</b>	<b>445</b>	<b>638</b>	<b>880</b>	<b>1003</b>	<b>1097</b>

**Table 7: Environmental Wild/VDPV isolate by site**

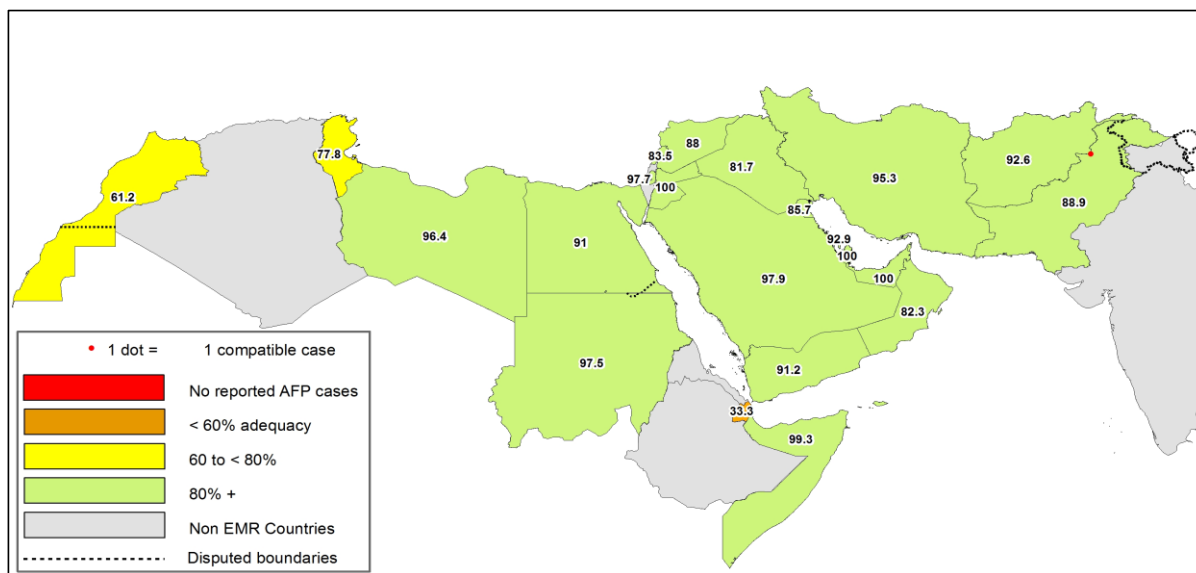
Year	Country	Status	Province	District	Count	First date	Last date	
2015	AFG	WILD1	HILMAND	LASHKARGAH	7	25-01-15	25-11-15	
				NAHR-E-SARAJ	3	24-01-15	19-09-15	
				KABUL	1	27-12-15	27-12-15	
				KANDAHAR	3	04-01-15	26-08-15	
				KUNAR	1	25-10-15	25-10-15	
				BEHSUD	1	25-10-15	25-10-15	
				JALALABAD	4	22-02-15	27-12-15	
	<b>AFG Total</b>					<b>20</b>	<b>04-01-15</b>	<b>27-12-15</b>
	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		
<b>EGY Total</b>					<b>3</b>	<b>04-02-15</b>	<b>16-06-15</b>	
2015	PAK	WILD1	BALOCHISTAN	KABDULLAH	3	15-01-15	01-06-15	
				QUETTA	12	12-01-15	28-10-15	
				ISLAMABAD	2	12-01-15	17-08-15	
				KHYBER PAKHTUNKHWA	DIKHAN	3	04-03-15	04-08-15
					PESHAWAR	11	03-01-15	11-12-15
					LAHORE	4	12-01-15	12-10-15
				PUNJAB	MULTAN	4	08-04-15	31-08-15
					RAWALPINDI	5	10-03-15	14-12-15
					HYDERABAD	2	03-02-15	03-12-15
				SINDH	JACOBABAD	5	08-01-15	04-11-15
					KHIGADAP	16	06-01-15	22-12-15
					KHIGIQBAL	6	13-01-15	14-12-15
					SUKKUR	6	06-01-15	11-09-15
					QUETTA	3	28-03-15	12-12-15
				WILD1 & VDPV	KHYBER PAKHTUNKHWA	PESHAWAR	1	26-02-15
SINDH	KHIGADAP	1	22-01-15		22-01-15			
PUNJAB	LAHORE	1	13-04-15		13-04-15			
VDPV2	SINDH	KHIGADAP	5	14-01-15	18-03-15			
		KHIGIQBAL	2	08-06-15	07-07-15			
		<b>PAK Total</b>					<b>92</b>	<b>03-01-15</b>
<b>2015 Total</b>					<b>115</b>	<b>03-01-15</b>	<b>27-12-15</b>	
2016	EGY	VDPV2	SOUTH SINAI	AL-TUR	1	15-03-16	15-03-16	
				<b>EGY Total</b>				
2016	PAK	WILD1	BALOCHISTAN	KABDULLAH	4	15-01-16	01-11-16	
				PISHIN	4	02-08-16	16-09-16	
				QUETTA	10	12-02-16	06-11-16	
				KHYBER PAKHTUNKHWA	DIKHAN	1	16-07-16	16-07-16
					PESHAWAR	8	11-01-16	10-11-16
					DERA GHAZI KHA	1	12-05-16	12-05-16
				PUNJAB	FAISALABAD	2	03-02-16	02-07-16
					LAHORE	3	05-08-16	18-10-16
					MULTAN	1	08-11-16	08-11-16
				SINDH	RAWALPINDI	2	14-04-16	16-08-16
					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
					SUKKUR	3	12-01-16	19-03-16
WILD1+VDPV2	BALOCHISTAN	QUETTA	1	20-10-16	20-10-16			
		VDPV2	BALOCHISTAN	QUETTA	2	20-06-16	16-09-16	
		SINDH	HYDERABAD	1	11-07-16	11-07-16		
<b>PAK Total</b>					<b>54</b>	<b>05-01-16</b>	<b>10-11-16</b>	
<b>2016 Total</b>					<b>55</b>	<b>05-01-16</b>	<b>10-11-16</b>	



**Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2016 - 04/12/2016**



**Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2016 - 04/12/2016**



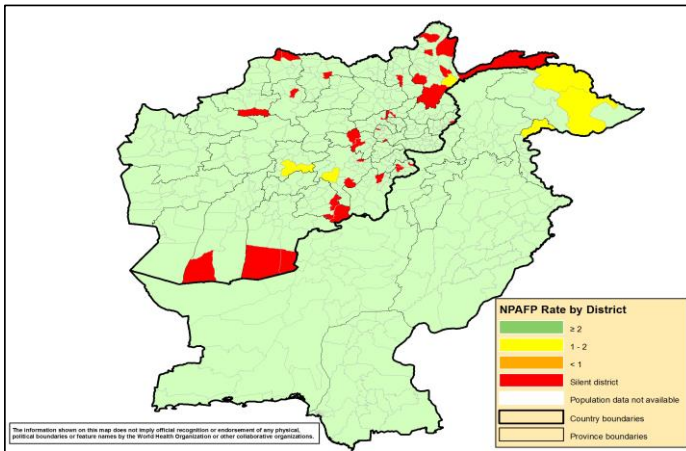
**Table 8: Wild polio cases by country and date of onset of paralysis in EMR, 2015-2016**

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	18	17-01-16	03-11-16
2016 Total		30	17-01-16	03-11-16

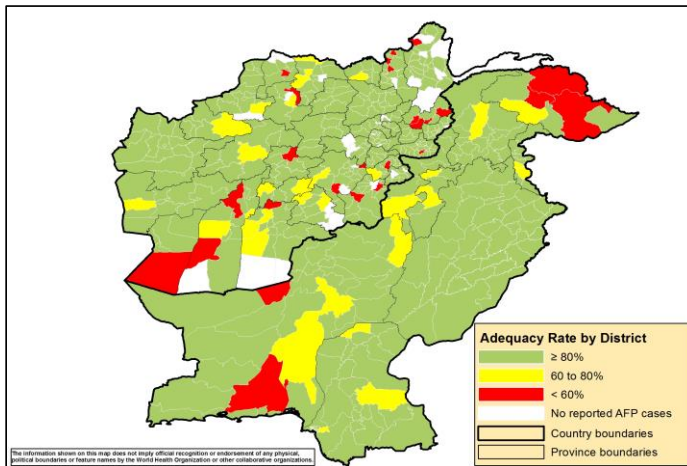
Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012



**Figure 3: Non Polio AFP rate by District in Afghanistan & Pakistan 01/01/2016 - 04/12/2016**

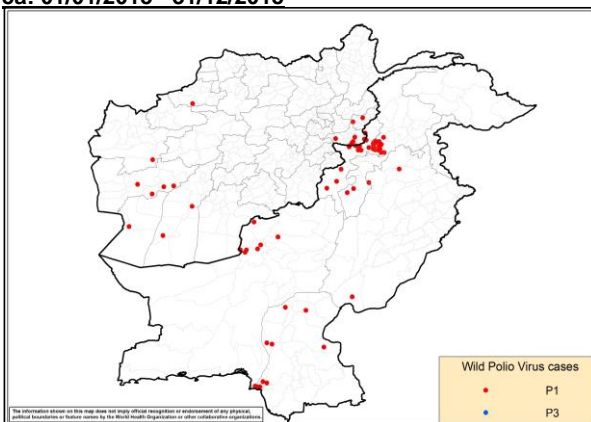


**Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2016 - 04/12/2016**

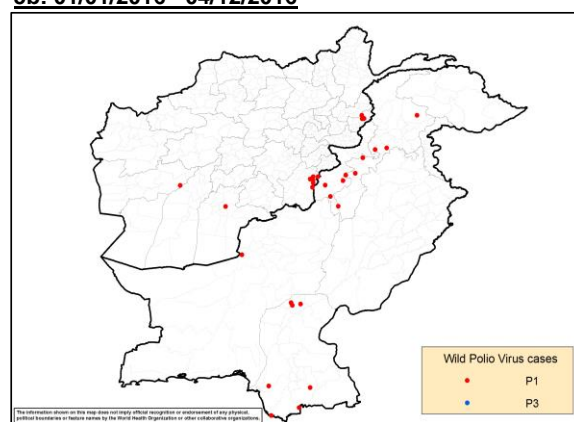


**Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan**

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



**5b: 01/01/2016 - 04/12/2016**





**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	19-11-15
	NANGARHAR	DARA-E-PECH	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	ACHIN	4	14-07-15	01-09-15
			QAYSAR	1	22-10-15	22-10-15
	HILMAND	NAHR-E-SARAJ REG	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 GULESTAN BAKWA	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	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	PROVINCE	DISTRICT	Count	First case	Last case	
2015	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 KHIGIQBAL KHAIRPUR KHIGADAP KHIKAMARI KHIGULBERG DADU SUKKUR KAMBAR	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 LORALAI KABDULAH	QUETTA	5
	LORALAI	1			09-02-15	09-02-15
	KABDULAH	1			03-02-15	03-02-15
	FATA	KHYBER FR PESHAWAR WAZIR-S WAZIR-N	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
2015 Total			54	03-01-15	31-12-15	
2016	SINDH	SUJAWAL	2	03-09-16	03-11-16	
		BADIN	1	16-10-16	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 DIKHAN BANNU PESHAWAR HANGU NOWSHERA	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	WAZIR-S	WAZIR-S	1	22-01-16	22-01-16
			2	18-06-16	27-07-16	
	BALOCHISTAN	QUETTA	1	01-02-16	01-02-16	
2016 Total			18	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	1	05/02/2015	05/02/2015
			HANGU	2	05/02/2015	09/02/2015
PAK Total				2	05/02/2015	09/02/2015
2015 Total				2	05/02/2015	09/02/2015

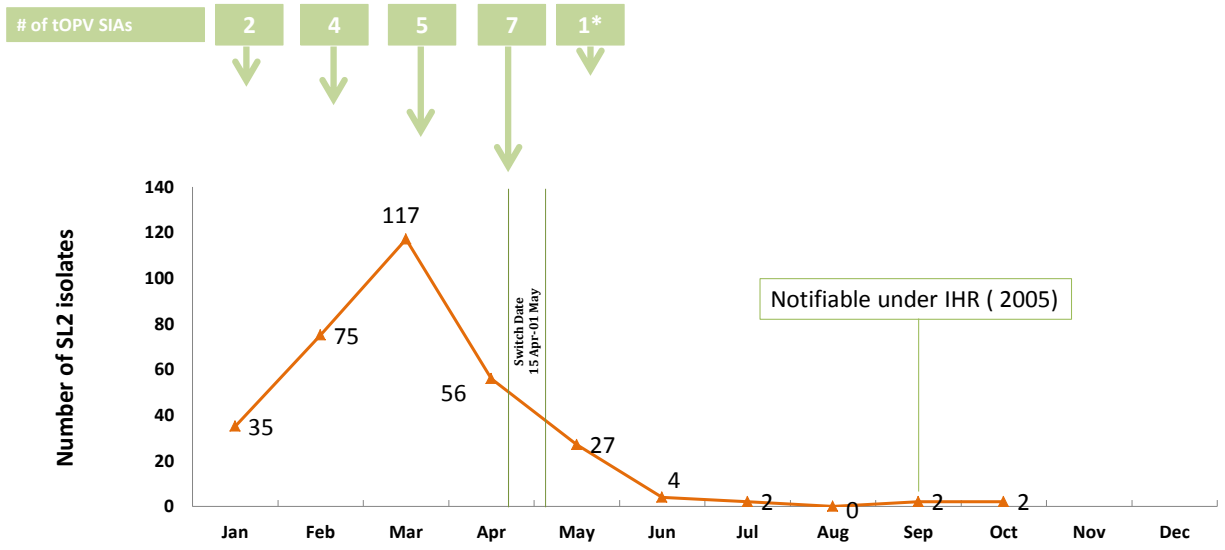
Table 12: VDPV2 and Sabin Like 2 isolates, EMRO countries 2016

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

**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  
\* VDPV2 isolated from index and contact at the same time  
\*\* under investigation  
Isolation of PV2 in IRQ & SOM under investigation not reflected in this table



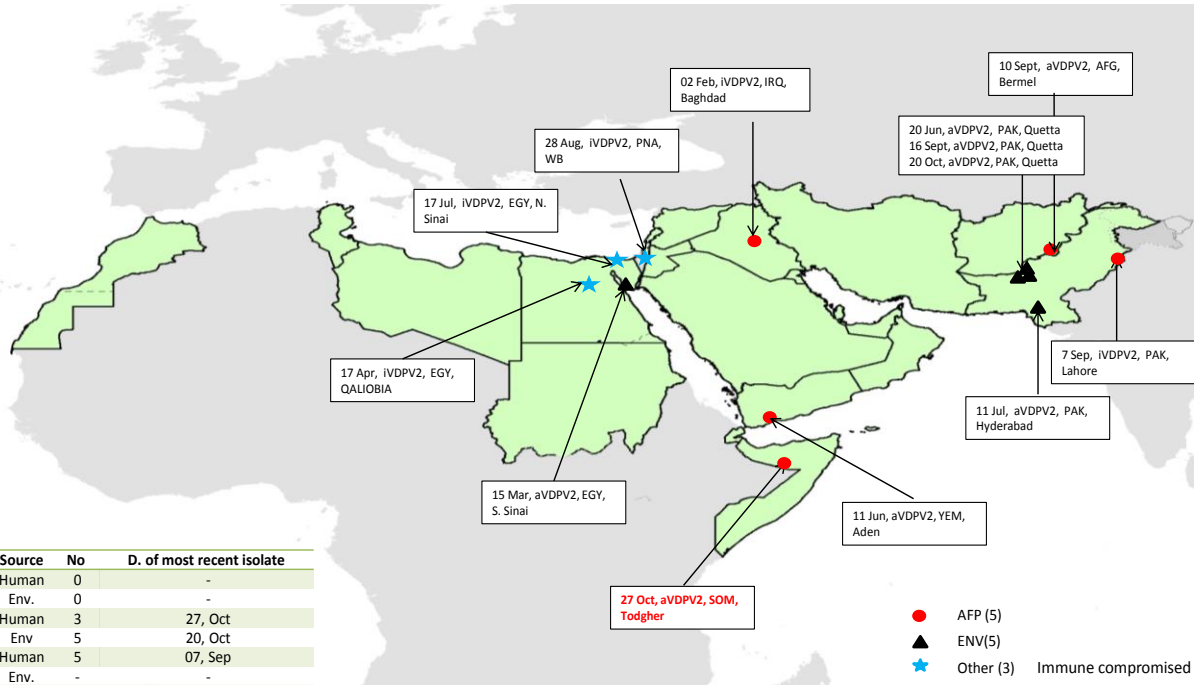
### SL2 isolates in EMR countries from Human and ENV 2016



\* Focused tOPV campaign in El Tur district (S. Sinai/Egy) as a response to VDPV2 isolation  
 2 PV2 isolated from Iraq and Somalia are under investigation not included in the graph

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### VDPV2 isolates, EMR countries, 2016



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

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

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