



AFP SURVEILLANCE

24-Oct-16

Week 42, ending 23 October 2016

Number 942

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

Country	Reported AFP cases by week of onset - Week (42/16) / Ending on : 23/10/2016														
	Total AFP 2014	Total AFP 2015	Total AFP to date, 2016	W31 07 Aug 16	W32 14 Aug 16	W33 21 Aug 16	W34 28 Aug 16	W35 04 Sep 16	W36 11 Sep 16	W37 18 Sep 16	W38 25 Sep 16	W39 02 Oct 16	W40 09 Oct 16	W41 16 Oct 16	W42 23 Oct 16
Afghanistan	2421	2738	2320	69	50	53	53	59	26	47	47	64	46	40	9
Bahrain	16	19	12	0	1	0	0	0	0	0	0	0	0	0	0
Djibouti	3	3	3	0	0	0	0	0							
Egypt	1000	1046	818	26	14	19	18	11	7	21	31	19	14	21	
Iran	753	780	598	12	19	14	15	13	12	21	13	8	5	1	
Iraq	590	520	462	12	11	10	7	12	5	2	14	11	6	5	
Jordan ****	62	90	82	4	0	1	3	2	2	0	0	2	2	3	
Kuwait	32	32	30	1	1	1	0	0	0	0	1	0	0	1	
Lebanon ****	50	113	86	2	6	2	2	2	1	1	2	2	1	3	1
Libya	43	54	47	1	2	0	1	1	0	1	2	1	4	0	0
Morocco	103	79	63	2	2	0	6	1	3	3	3	1	1		
Oman	34	39	30	0	0	2	0	1	1	1	0	0			
Pakistan	5370	5814	5461	199	166	189	199	148	121	141	157	109	60	25	0
Palestine ****	21	38	42	1	0	2	0	0	1	2	1	0	1	0	0
Qatar	7	11	7	0	1	0	0	0	0	0	1	1	0	0	0
Saudi Arabia	227	254	176	2	7	2	5	1	2	2	1	0	0	0	
Somalia	420	281	241	7	4	6	5	2	4	5	7	6	5	0	0
Sudan	442	436	413	15	18	14	9	12	7	9	8	10	4	0	
Syria ****	306	235	234	9	12	11	6	4	10	4	3	7	3	2	
Tunisia	44	64	63	1	0	1	0	1	1	0	2	1	1	0	
U.A.E	25	31	27	1	0	0	1	0	0	0	0	1	0	0	0
Yemen	578	537	586	21	10	21	15	12	9	7	20	11	12	2	
<b>Total EMR</b>	<b>12547</b>	<b>13214</b>	<b>11801</b>	<b>385</b>	<b>324</b>	<b>348</b>	<b>345</b>	<b>282</b>	<b>212</b>	<b>267</b>	<b>313</b>	<b>254</b>	<b>165</b>	<b>103</b>	<b>10</b>

☐ No data = No report received

Table 2: Confirmed polio cases by month of onset

Country	Total year 2014	Total year 2015	23/10		Confirmed polio cases by month of onset											
			2015	2016	November 2015	December 2015	January 2016	February 2016	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016	October 2016
Afghanistan	28	20	16	8	2	1	1	2	1	1	1	0	0	2		
Bahrain	0	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	0	0	0	
Egypt	0	0	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	0	
Iraq	2	0	0	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	0	0	
Lebanon ****	0	0	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	0	0	
Morocco	0	0	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	0	
Pakistan	306	54	41	15	9	3	2	4	2	3		2	1		1	
Palestine ****	0	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	0	
Saudi Arabia	0	0	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	0	
Sudan	0	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	0	
Tunisia	0	0	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	0	0	
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Total EMR</b>	<b>342</b>	<b>74</b>	<b>57</b>	<b>23</b>	<b>11</b>	<b>4</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>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 &amp; 2016 up to Week (42/16) / Ending on : 23/10/2016)

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	2320	8	0	184	2127	1	14.4	22	0	92.3	8	0	23/10/2016
Bahrain	19	0	0	0	19	0	7.0	0	0	94.7	0	0	12	0	0	0	12	0	5.4	0	0	100.0	0	0	23/10/2016
Djibouti	3	0	0	0	3	0	1.0	0	0	66.7	0	0	3	0	0	2	1	0	1.2	2	0	33.3	0	0	10/09/2016
Egypt	1046	0	0	0	1045	1	3.0	0	0	94.2	0	0	818	0	0	95	723	0	2.6	1	0	90.5	0	0	20/10/2016
Iran	780	0	0	0	779	1	4.3	0	0	96.9	0	0	598	0	0	22	575	0	4.0	0	0	95.3	0	0	22/10/2016
Iraq	520	0	0	0	518	2	3.6	0	0	81.9	0	0	462	0	0	47	414	1	3.9	22	2	82.3	0	0	22/10/2016
Jordan	90	0	0	0	90	0	3.2	0	0	96.7	0	0	82	0	0	21	61	0	3.6	3	0	97.6	0	0	20/10/2016
Kuwait	32	0	0	0	32	0	3.7	0	0	96.9	0	0	30	0	0	4	26	0	4.2	0	0	83.3	0	0	16/10/2016
Lebanon	113	0	0	0	113	0	5.2	0	0	84.1	0	0	86	0	0	16	70	0	5.5	8	0	82.6	0	0	22/10/2016
Libya	54	0	0	0	54	0	2.6	0	0	94.4	0	0	47	0	0	7	40	0	2.8	0	0	91.5	0	0	23/10/2016
Morocco	79	0	0	1	78	0	0.8	1	0	57.0	0	0	63	0	0	29	34	0	0.7	12	0	57.1	0	0	14/10/2016
Oman	39	0	0	0	39	0	4.5	0	0	97.4	0	0	30	0	0	5	25	0	4.3	0	0	86.7	0	0	02/10/2016
Pakistan	5814	54	10	1	5745	4	7.4	1	0	87.2	54	0	5461	15	0	311	5135	0	8.6	72	5	88.9	15	0	23/10/2016
Palestine	38	0	0	0	38	0	2.2	0	0	92.1	0	0	42	0	0	7	35	0	2.7	0	0	97.6	0	0	23/10/2016
Qatar	11	0	0	0	11	0	3.7	0	0	100.0	0	0	7	0	0	3	4	0	2.9	0	0	100.0	0	0	23/10/2016
Saudi Arabia	254	0	0	0	254	0	2.7	0	0	98.0	0	0	176	0	0	25	151	0	2.3	1	1	99.4	0	0	16/10/2016
Somalia	281	0	1	0	280	0	4.9	0	0	96.1	0	0	241	0	0	8	233	0	5.1	0	0	99.6	0	0	23/10/2016
Sudan	436	0	0	0	436	0	2.6	0	0	97.2	0	0	413	0	0	18	395	0	3.0	2	0	97.8	0	0	16/10/2016
Syria	235	0	0	0	235	0	3.0	0	0	90.2	0	0	234	0	0	21	213	0	3.7	0	0	87.6	0	0	22/10/2016
Tunisia	64	0	0	0	64	0	2.4	0	0	85.9	0	0	63	0	0	6	57	0	3.0	1	0	81.0	0	0	21/10/2016
U.A.E	31	0	0	0	31	0	3.0	0	0	90.3	0	0	27	0	0	1	26	0	3.3	0	0	100.0	0	0	23/10/2016
Yemen	537	0	0	0	537	0	4.1	0	0	90.7	0	0	586	0	0	174	411	1	5.6	18	10	91.1	0	0	22/10/2016
EMR	13214	74	14	2	13116	8	5.4	2	0	90.2	74	0	11801	23	0	1006	10768	3	5.9	164	18	90.4	23	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 &lt;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

**Removal of Afghanistan/Kabul case of 2016 from the WPV1 linelist:  
Following re-testing of the original specimens from this case by both the RRL Pakistan and CDC Atlanta, the original result of WPV1 and SL3 has been revised to no virus isolated.**



**Table 4: Investigation of contacts of AFP cases with paralysis onset in 2016 up to Week (42/16) / Ending on : (23/10/2016)**

Country	No. of AFP cases	No. of eligible AFP cases for contact sampling*	% of eligible AFP cases with contact samplings	% of eligible AFP cases with 3+ contacts	Total number of Contacts**	% of contacts under 5 years	% of contacts with specimens collected within 7 days of notification of index	% Contact specimens in lab within 3 days of collection	% Contact specimens positive for NPEV	% Contact specimens positive for Sabin like virus	No. of contacts positive for wild virus	% of wild polio virus isolation from contacts	No. of Contacts positive for VDPVs	No. of -ve index AFP cases identified positive by contact	No. of district identified infected from contacts
Afghanistan	2320	179	89.4	88.8	1117	97.0	61.1	25.9	23.6	8.3	3	0.3		2	1
Bahrain	12	0			0						0			0	0
Djibouti	3	2	50.0	50.0	3	33.3	100.0				0			0	0
Egypt	818	88	59.1	56.8	252	76.2	61.5	97.3	17.4	5.5	0	0.0		0	0
Iran	598	30	80.0	63.3	125	61.6	29.6	82.4	2.4	1.6	0	0.0		0	0
Iraq	462	82	68.3	59.8	504	61.7	24.6	89.6	15.8	4.8	0	0.0		0	0
Jordan	82	2	0.0	0.0	0						0			0	0
Kuwait	30	5	40.0	40.0	45	51.1	73.3	100.0	0.0	0.0	0	0.0		0	0
Lebanon	86	15	40.0	40.0	97	46.4	72.2	0.0	0.0	9.8	0	0.0		0	0
Libya	47	4	0.0	0.0	0						0			0	0
Morocco	63	27	25.9	25.9	35	65.7	25.7	34.3	8.6	0.0	0	0.0		0	0
Oman	30	4	25.0	25.0	44	86.4	38.6	81.8	0.0	2.3	0	0.0		0	0
Pakistan	5461	605	81.2	79.0	1654	87.4	61.9	68.2	24.5	5.9	3	0.2		0	0
Palestine	42	1	0.0	0.0	0						0			0	0
Qatar	7	0			0						0			0	0
Saudi Arabia	176	1	0.0	0.0	0						0			0	0
Somalia	241	1	100.0	100.0	711	92.5	99.3	41.5	13.3	3.6	0	0.0		0	0
Sudan	413	9	77.8	77.8	143	75.5	53.8	33.0	12.6	0.0	0	0.0		0	0
Syria	234	29	62.1	27.6	560	26.4	73.8	59.9	2.5	0.6	0	0.0		0	0
Tunisia	63	12	25.0	0.0	9	0.0	44.4	100.0	0.0	0.0	0	0.0		0	0
U.A.E.	27	0			0						0			0	0
Yemen	586	52	84.6	75.0	1382	59.4	72.9	1.1	16.1	2.2	0	0.0	1	0	0
<b>Grand Total 2016</b>	<b>11801</b>	<b>1148</b>	<b>76.0</b>	<b>72.0</b>	<b>6681</b>	<b>74.4</b>	<b>65.3</b>	<b>48.1</b>	<b>17.3</b>	<b>4.7</b>	<b>6</b>	<b>0.1</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>Grand Total 2015</b>	<b>13214</b>	<b>1314</b>	<b>79.5</b>	<b>73.8</b>	<b>7465</b>	<b>74.3</b>	<b>63.8</b>	<b>45.4</b>	<b>17.5</b>	<b>5.0</b>	<b>11</b>	<b>0.2</b>	<b>2</b>	<b>5</b>	<b>3</b>

\* Eligible refers to AFP cases with inadequate stool specimens

\*\* Total number of contacts from eligible AFP cases and from other AFP cases as per with country criteria for contact sampling

**Last wild contacts in EMRO, 01/01/2015 - 23/10/2016**

Year	Country	Count of wild contacts	Date of Most Recent stool collection
2015	Afghanistan	9	1/13/2016
	Pakistan	2	7/27/2015
<b>2015 Total</b>		<b>11</b>	<b>1/13/2016</b>
2016	Pakistan	3	6/15/2016
	Afghanistan	3	4/4/2016
<b>2016 Total</b>		<b>6</b>	<b>6/15/2016</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	23/04/2015	23/04/2015
			BAKWA	1	21/04/2015	21/04/2015
		KANDAHAR	SHAHWALIKOT	1	20/12/2015	20/12/2015
	<b>AFG Total</b>			<b>3</b>	<b>21/04/2015</b>	<b>20/12/2015</b>
	PAK	KHYBER PAKHTOON	PESHAWAR	1	08/06/2015	08/06/2015
			TANK	1	25/01/2015	25/01/2015
	<b>PAK Total</b>			<b>2</b>	<b>25/01/2015</b>	<b>08/06/2015</b>
<b>2015 Total</b>				<b>5</b>	<b>25/01/2015</b>	<b>20/12/2015</b>
2016	AFG	KUNAR	SHIGAL WA SHEL TAN	1	26/02/2016	26/02/2016
		HILMAND	NAWZAD	1	23/01/2016	23/01/2016
	<b>AFG Total</b>			<b>2</b>	<b>23/01/2016</b>	<b>26/02/2016</b>
<b>2016 Total</b>				<b>2</b>	<b>23/01/2016</b>	<b>26/02/2016</b>



**Table 5: Laboratory investigation of AFP cases with paralysis onset in 2016 up to Week (42/16) / Ending on : (23/10/2016)**

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	2249	171	26	487	1489	76		6	100			19	1	123		3		1	20%	95%	97%	97%	21/10/2016		
Bahrain	PNL Oman	12	1			11													1	0%	100%		82%	18/10/2016		
Djibouti	NPL Kenya	1			1															100%			100%	10/09/2016		
Egypt***	RRL Egypt	779	26	1	119	578	6	49		7			7		14		1	3	2	1	13%	100%	100%	99%	23/10/2016	
Iran	NPL Iran	605	8		14	570	10	3		5			1		3		1				2%	100%	100%	99%	22/10/2016	
Iraq	RRL Egypt	454	13		39	382	16	5		4			9	1	7						11%	100%	100%	87%	20/10/2016	
Jordan	RRL Tunisia	83	4		9	69	1			5					2						10%	100%	100%	100%	23/10/2016	
Kuwait	RRL Kuwait	41	1		1	37	2												1		1%	74%		89%	24/10/2016	
Lebanon	NPL Jordan	85	2		7	74		3													6%	100%		100%	23/10/2016	
Libya	RRL Tunisia	47	2		2	37	6			2											5%	100%	100%	98%	21/10/2016	
Morocco	RRL Tunisia	51	1		2	40		8											1		11%	98%		90%	21/10/2016	
Oman	NPL Oman	36			10	24	2														19%	100%		100%	18/10/2016	
Pakistan	RRL Pakistan	5558	314	33	1290	3684	234		15	173			33		210		6				21%	97%	98%	97%	21/10/2016	
Palestine & UNRWA		42			4	37	1														10%	30%		97%	23/10/2016	
Qatar	NPL Oman	7			1	4	2														20%	100%		100%	18/10/2016	
Saudi Arabia	NPL Oman	153			2	145		6							1						1%	100%	100%	83%	14/08/2015	
Somalia	NPL Kenya	241	2	12	35	184	3	5		9			10		11						20%	11%		99%	23/10/2016	
Sudan	RRL Egypt	422	2		67	332	16	5							1						17%	87%	100%	50%	23/10/2016	
Syria	RRL Egypt	223	5		9	188		21		2			1		4						4%	100%	100%	100%	08/09/2016	
Tunisia	RRL Tunisia	64			3	58	3														4%	100%		98%	21/10/2016	
U.A.E	NPL Oman	25			2	23															6%	100%		100%	18/10/2016	
Yemen	RRL Egypt	983	23	4	133	516	8	299		8			4	1	12		1	1	1		19%	35%	100%	53%	23/10/2016	
<b>Total EMR 2016</b>		12161	575	76	2237	8482	386	404	21	315			84	3	388		2	13	3	6	17%	91%	98%	94%		
<b>Total EMR 2015</b>		12989	743	97	2319	9814		13	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 (a): Environmental isolate by year and type "EGYPT"**

Result	2010	2011	2012	2013	2014	2015	2016
Negative	183	178	196	304	410	412	367
Pending							44
Wild			2				
VDPVP2			7	3	2	3	1
VDPVP1			1		1		
Total	183	178	206	307	413	415	412

**Table 6 (b): Environmental Wild/VDPV isolate by site "EGYPT"**

YEAR		Province	Site	Count	First date	Last Date
2015	VDPVP2	CAIRO	EL SAFF	1	16/06/2015	16/06/2015
		GIZA	AL WASLA	1	04/02/2015	04/02/2015
		HURGADA	RED SEA	1	26/05/2015	26/05/2015
	<b>VDPVP2 Total</b>			<b>3</b>	<b>04/02/2015</b>	<b>16/06/2015</b>
2016	VDPVP2	SOUTH SINAI	AL-TUR	1	15/03/2016	15/03/2016
	<b>VDPVP2 Total</b>			<b>1</b>	<b>15/03/2016</b>	<b>15/03/2016</b>

**Table 7 (a): Environmental isolate by year and type "AFGHANISTAN/PAKISTAN"**

Country	Status	2009	2010	2011	2012	2013	2014	2015	2016
AFG	NEGATIVE					9	78	129	120
	PENDING								7
	WILD						17	20	
	WILD & VDPV2								
	VDPV2								
<b>AFG Total</b>						<b>9</b>	<b>95</b>	<b>149</b>	<b>127</b>
PAK	NEGATIVE	27	77	68	151	257	237	347	335
	PENDING								45
	WILD	18	79	136	88	63	125	79	39
	WILD & VDPV2					2	6	5	
	VDPV2						4	8	3
<b>PAK Total</b>		<b>45</b>	<b>156</b>	<b>204</b>	<b>239</b>	<b>322</b>	<b>372</b>	<b>439</b>	<b>422</b>

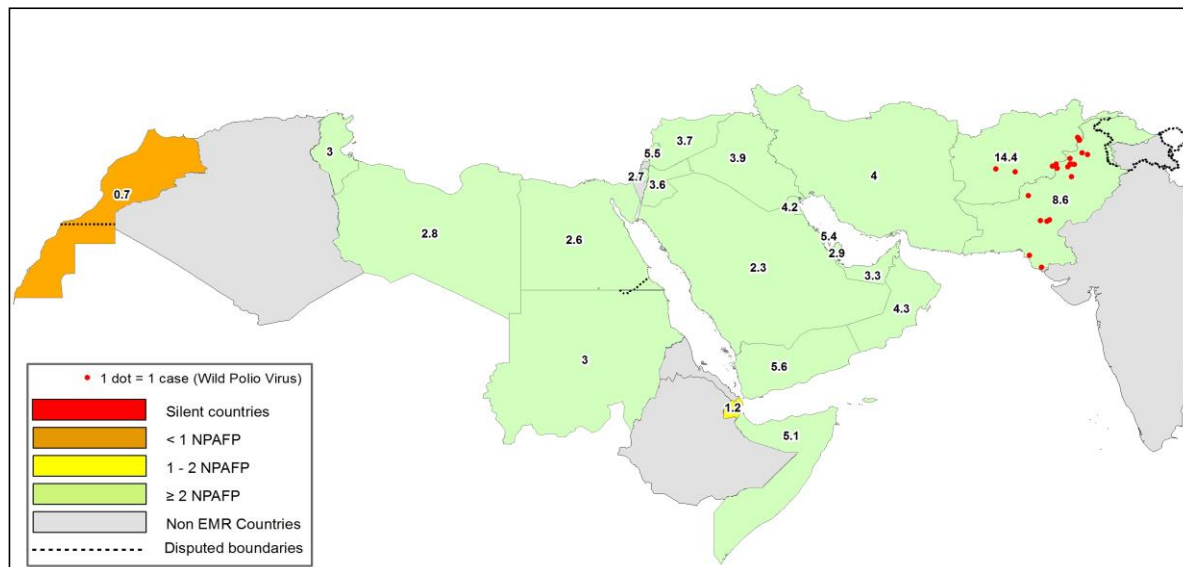
Pakistan Environment data is now updated to reflect positive results by site not by method (from regular environment system and BMFS pilot study) with no duplication

**Table 7 (b): Environmental Wild/VDPV isolate by site "AFGHANISTAN/PAKISTAN"**

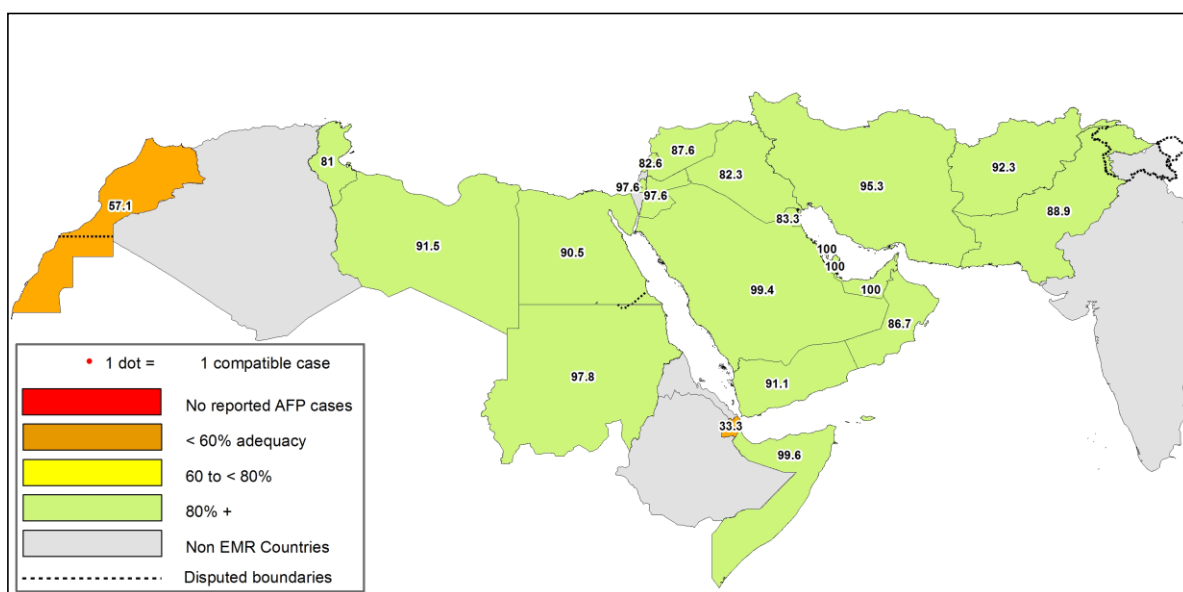
Year	Country	Status	Province	District	Count	First date	Last date		
2015	AFG	WILD1	HILMAND	LASHKARGAH	7	25-01-15	25-11-15		
				NAHR-E-SARAJ	3	24-01-15	19-09-15		
			KABUL	KABUL	1	27-12-15	27-12-15		
				KANDAHAR	3	04-01-15	26-08-15		
			KUNAR	ASADABAD	1	25-10-15	25-10-15		
				BEHSUD	1	25-10-15	25-10-15		
			NANGARHAR	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>
			PAK	WILD1	BALOCHISTAN	KABDULLAH	3	15-01-15	01-06-15
						QUETTA	12	12-01-15	28-10-15
	ISLAMABAD	CDA			2	12-01-15	17-08-15		
		KHYBER PAKHTUNKHWA			DIKHAN	3	04-03-15	04-08-15	
	PUNJAB	PESHAWAR			11	03-01-15	11-12-15		
		LAHORE			4	12-01-15	12-10-15		
	MULTAN	MULTAN			4	08-04-15	31-08-15		
		RAWALPINDI			5	10-03-15	14-12-15		
	SINDH	HYDERABAD			2	03-02-15	03-12-15		
		JACOBABAD			5	08-01-15	04-11-15		
	PAK	WILD1 & VDPV2	BALOCHISTAN	KHIGADAP	16	06-01-15	22-12-15		
				KHIGIQBAL	6	13-01-15	14-12-15		
KHYBER PAKHTUNKHWA			SUKKUR	6	06-01-15	11-09-15			
			QUETTA	3	28-03-15	12-12-15			
SINDH			PESHAWAR	1	26-02-15	26-02-15			
			KHIGADAP	1	22-01-15	22-01-15			
PUNJAB			LAHORE	1	13-04-15	13-04-15			
			KHIGADAP	5	14-01-15	18-03-15			
VDPV2			KHIGIQBAL	2	08-06-15	07-07-15			
			<b>PAK Total</b>			<b>92</b>	<b>03-01-15</b>	<b>22-12-15</b>	
<b>2015 Total</b>					<b>112</b>	<b>03-01-15</b>	<b>27-12-15</b>		
2016	PAK	WILD1	BALOCHISTAN	KABDULLAH	2	15-01-16	15-09-16		
				PISHIN	4	02-08-16	16-09-16		
			KHYBER PAKHTUNKHWA	QUETTA	6	12-02-16	16-09-16		
				DIKHAN	1	16-07-16	16-07-16		
			PUNJAB	PESHAWAR	6	11-01-16	15-09-16		
				DERA GHAZI KHA	1	12-05-16	12-05-16		
			SINDH	FAISALABAD	2	03-02-16	02-07-16		
				LAHORE	1	05-08-16	05-08-16		
			SINDH	RAWALPINDI	2	14-04-16	16-08-16		
				HYDERABAD	1	05-01-16	05-01-16		
			SINDH	JACOBABAD	3	04-02-16	16-08-16		
				KHIGADAP	5	27-01-16	14-07-16		
			SINDH	KHIGIQBAL	2	18-01-16	15-03-16		
				SUKKUR	3	12-01-16	19-03-16		
VDPV2	BALOCHISTAN	QUETTA	2	20-06-16	16-09-16				
	SINDH	HYDERABAD	1	11-07-16	11-07-16				
<b>PAK Total</b>			<b>42</b>	<b>05-01-16</b>	<b>16-09-16</b>				
<b>2016 Total</b>					<b>42</b>	<b>05-01-16</b>	<b>16-09-16</b>		



**Figure 1: Non Polio AFP Rate and Wild Virus in EMR 01/01/2016 - 23/10/2016**



**Figure 2: Percent of AFP cases with Adequate Samples & Compatible Cases in EMR 01/01/2016 - 23/10/2016**



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

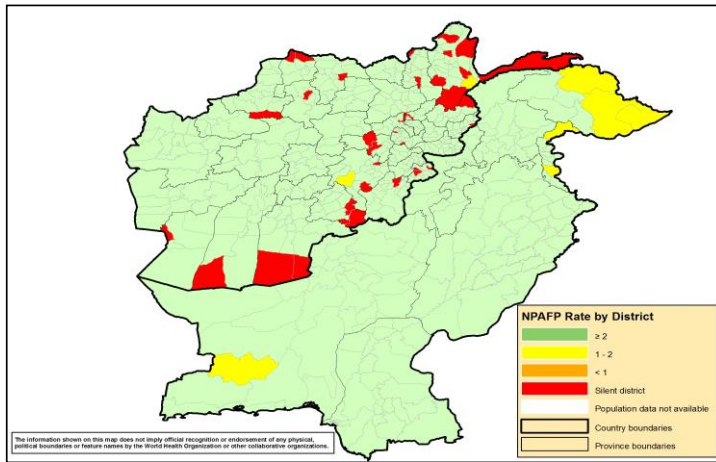
Year	COUNTRY	P1		
		Count	First Case	Last Case
2015	AFG	20	21-01-15	20-12-15
	PAK	54	03-01-15	31-12-15
2015 Total		74	03-01-15	31-12-15
2016	AFG	8	23-01-16	11-08-16
	PAK	15	17-01-16	03-09-16
2016 Total		23	17-01-16	03-09-16

**Removal of Afghanistan/Kabul case of 2016 from the WPV1 linelist:** Following re-testing of the original specimens from this case by both the RRL Pakistan and CDC Atlanta, the original result of WPV1 and SL3 has been revised to no

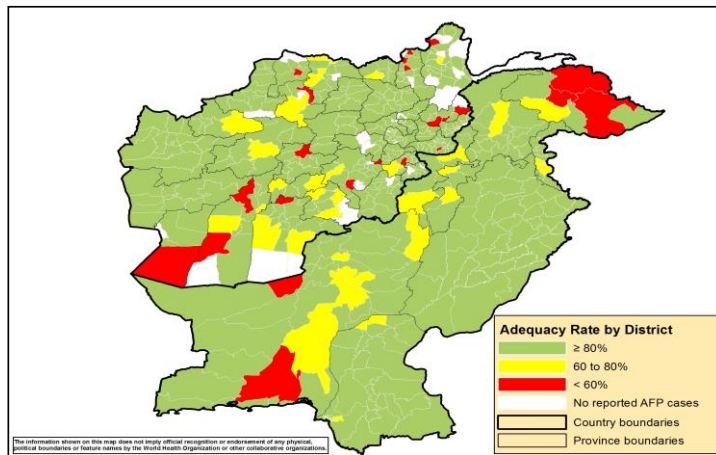
**Last reported wild Polio P3 from Pakistan with date of onset 18/04/2012**



**Figure 3: Non Polio AFP rate by District in Afghanistan & Pakistan 01/01/2016 - 23/10/2016**

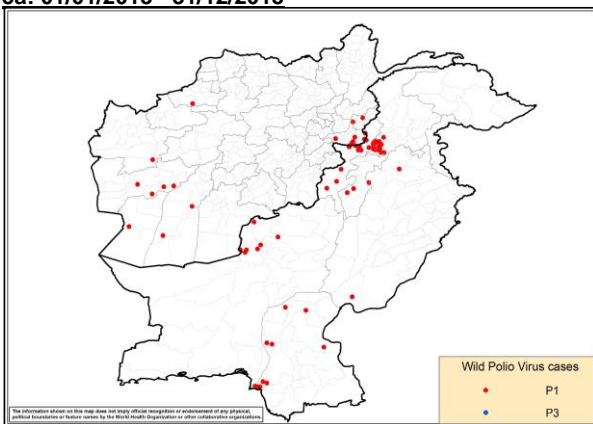


**Figure 4: Percent of AFP cases with Adequate Samples in Afghanistan & Pakistan by District 01/01/2016 - 23/10/2016**

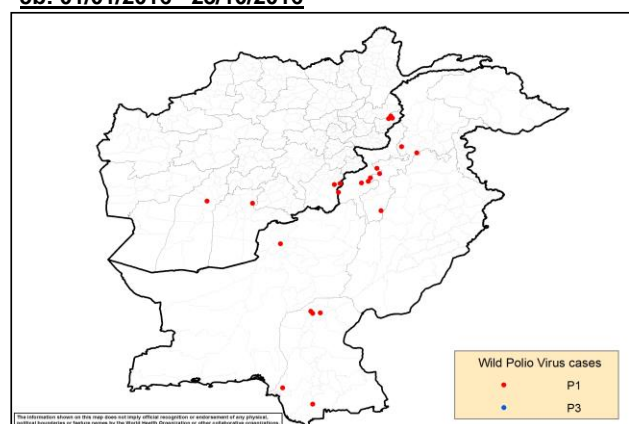


**Figure 5: Wild Virus Cases by Type & District in Afghanistan & Pakistan**

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



**5b: 01/01/2016 - 23/10/2016**





**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	1	19-11-15	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	2	02-08-16	11-08-16
	KUNAR	SHIGAL WA SHELTON	4	01-02-16	29-05-16
	KANDAHAR	SHAHWALIKOT	1	04-04-16	04-04-16
	HILMAND	NAWZAD	1	23-01-16	23-01-16
2016 Total			8	23-01-16	11-08-16

**Removal of Afghanistan/Kabul case of 2016 from the WPV1 linelist:  
Following re-testing of the original specimens from this case by both the RRL  
Pakistan and CDC Atlanta, the original result of WPV1 and SL3 has been revised**

**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
		RYKHAN	1	02-12-15	02-12-15
	PUNJAB	CHAKWAL	1	11-09-15	11-09-15
		SINDH	KHIBALDIA	2	11-11-15
	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
2015 Total			54	03-01-15	31-12-15
2016	SINDH	SUJAWAL	1	03-09-16	03-09-16
		SHIKARPUR	2	05-03-16	12-04-16
		JACOBABAD	1	10-02-16	10-02-16
		KHIGADAP	1	17-01-16	17-01-16
	FATA	WAZIR-S	2	18-06-16	27-07-16
	KHYBER PAKHTOON	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
		NOWSHERA	1	22-01-16	22-01-16
BALOCHISTAN		QUETTA	1	01-02-16	01-02-16
2016 Total			15	17-01-16	03-09-16





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
			HANGU	1	05/02/2015	05/02/2015
		KHYBER PAKHTOON	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

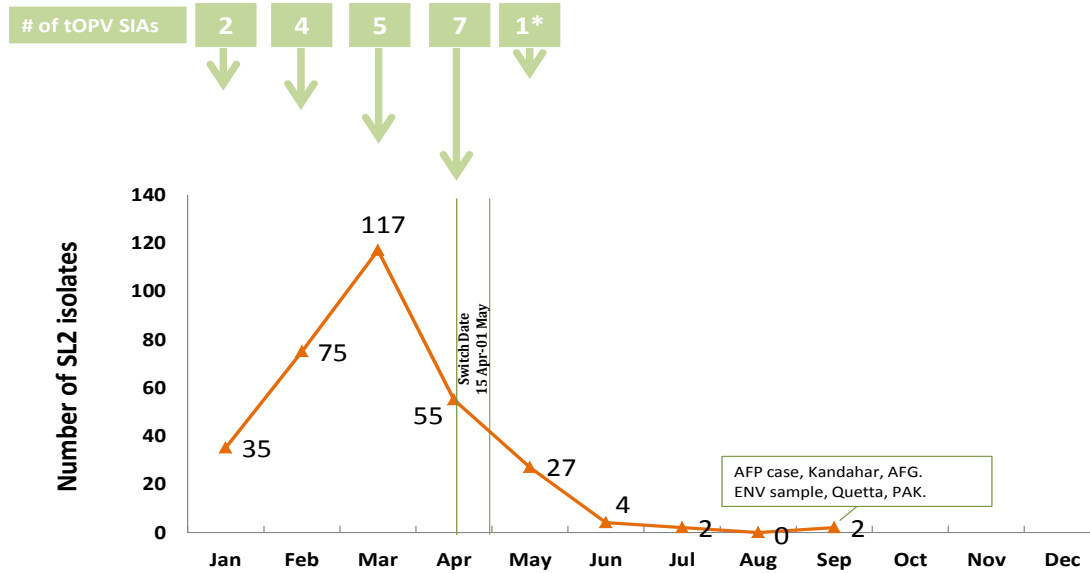
Table 12: VDPV2 and Sabin Like 2 isolates, EMRO countries 2016

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							
	Contact		1			6		2		1															
	ENV	3		2		11												1		1					
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		15			3															
	Contact				1		7		5	1															
	ENV		7		32		27		26	9	1	3	1	1				1		1					
PAL	AFP																								
	Contact																								
	ENV																								
QAT	AFP																								
	Contact																								
	ENV																								
SAA	AFP																								
	Contact																								
	ENV																								
SUD	AFP																								
	Contact																								
	ENV																								
SOM	AFP				1		6		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		1		2				1*												
	ENV																								
EMR	AFP		12	1	15		38		6		8		1	1	1			2		2					
	Contact		4		7		21		18		2			1											
	ENV		19		53	1	58		31		17	1	3	1	1										

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



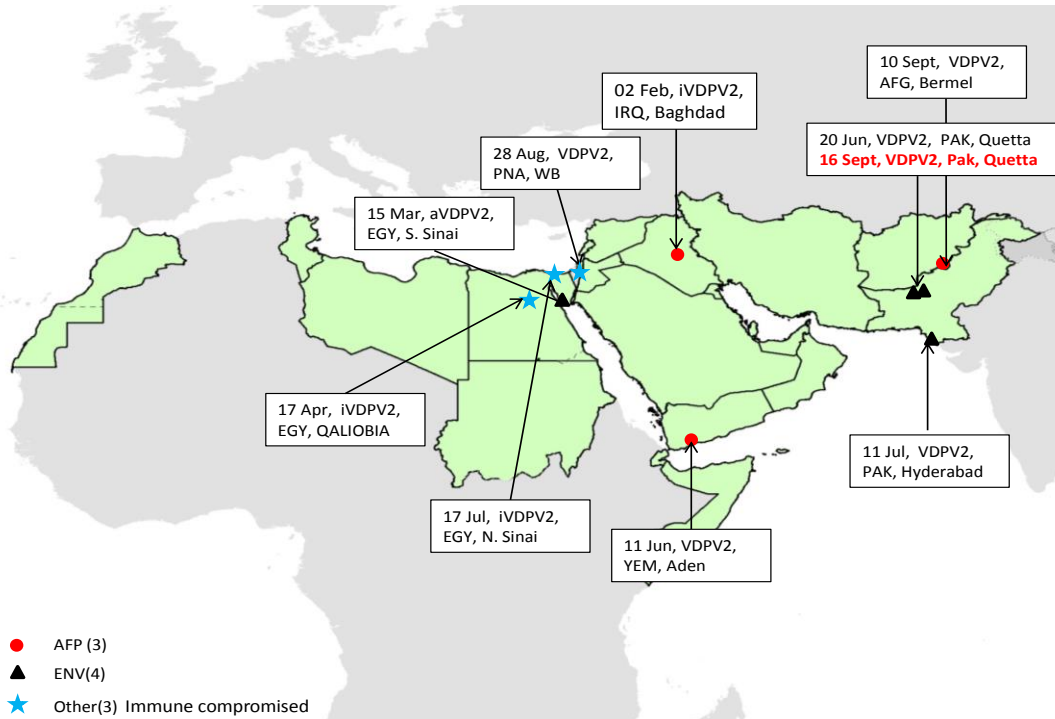
## SL2 isolates in EMR countries from Human and ENV 2016



\* Focused tOPV campaign in Bir Tur district (S. Sinai/Egy) as a response to VDPV2 isolation

Data up to W42, 23 Oct 2016

## VDPV2 isolates, EMR countries, 2016



Data up to W42, 23 Oct 2016