

Highlights



Children
Paralyzed
by polio

2022

- 22 cases of Wild Polio 1
 - 02 in Afghanistan
 - 20 in Pakistan
- 166 cases of cVDPV2
 - 05 in Somalia
 - 160 in Yemen
 - 01 in Sudan

2023

- Zero case of Wild Polio 1
- Zero case of cVDPV2



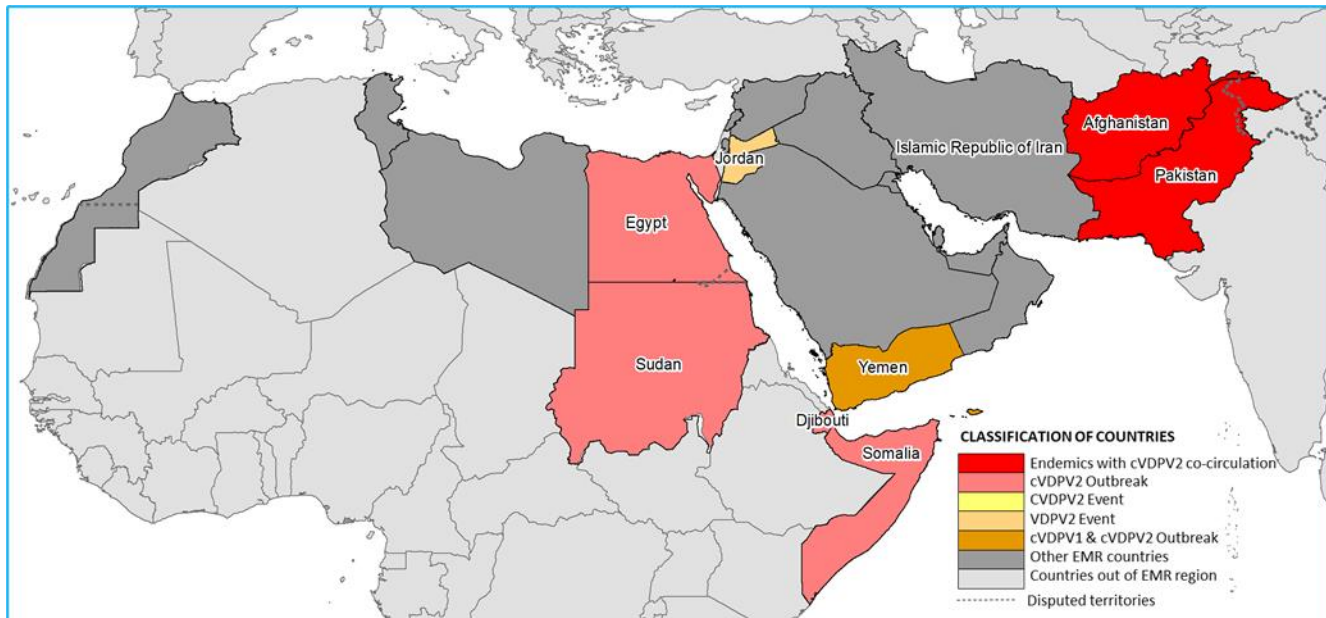
Sewage
water
sampling

2022

- 59 samples Wild Polio 1
 - 22 in Afghanistan
 - 37 in Pakistan
- 43 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 04 in Somalia
 - 01 in Sudan
 - 20 in Yemen

2023

- 9 samples Wild Polio 1
 - 07 in Afghanistan
 - 02 in Pakistan
- Zero samples of cVDPV2



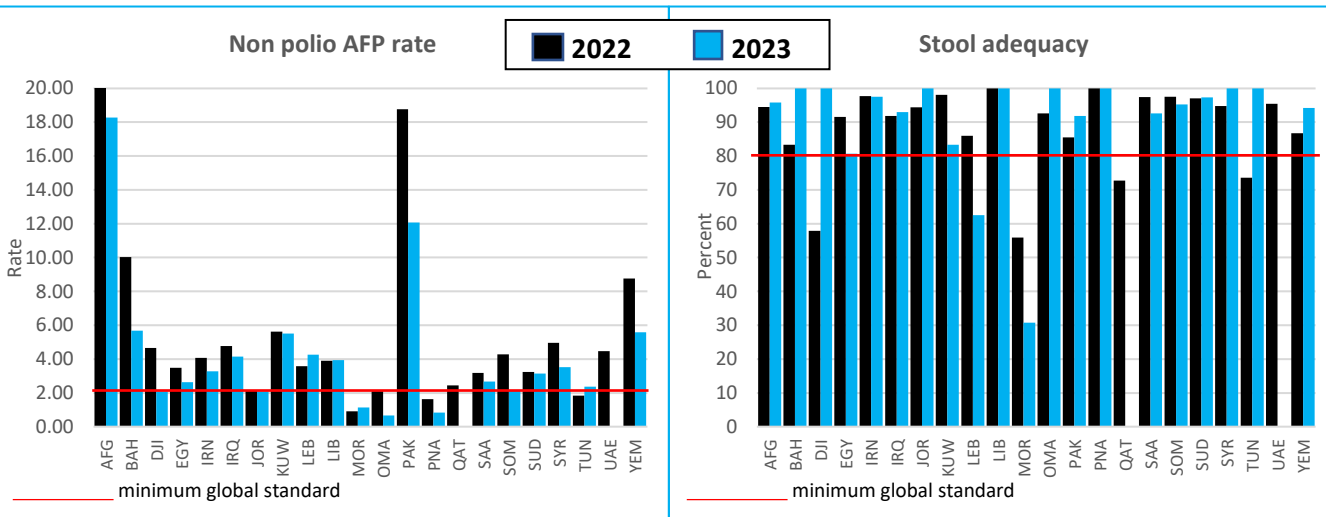
Highlights of the week

Wild Poliovirus

- Human Samples:** No new Wild Poliovirus cases reported this week. The cases count in 2022 remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- Environmental Samples (ES):** Afghanistan reported two new WPV1 positive ES this week, one each from Asadabad district of Kunar province and Behsud district of Nangarhar province. The specimen collection dates are on 22nd and 24th January 2023 respectively.
- In 2023 to date, the positive WPV1 ES count in 2023 is 9 (7 in Afghanistan and 2 in Pakistan) while in 2022 the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

Circulating Vaccine derived poliovirus (cVDPV)

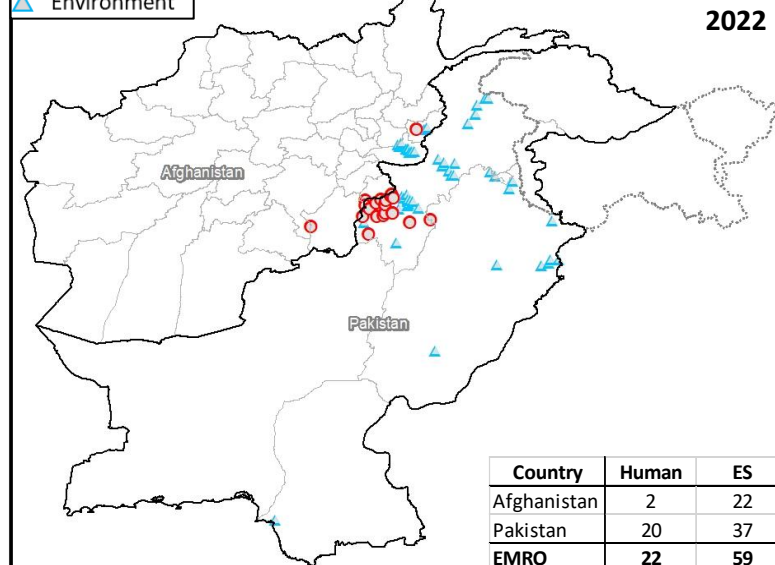
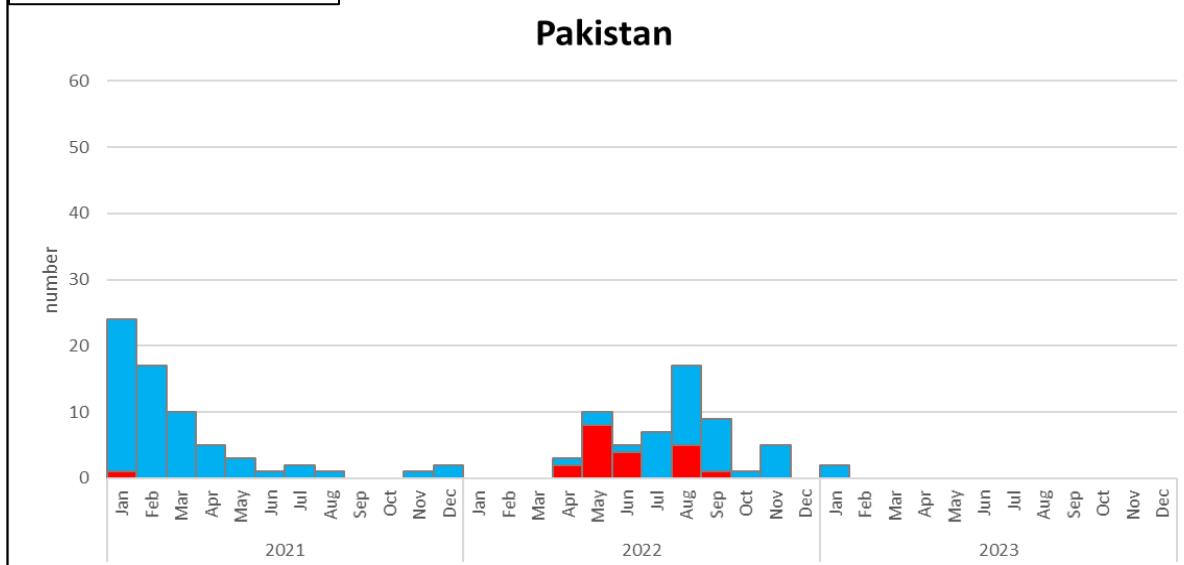
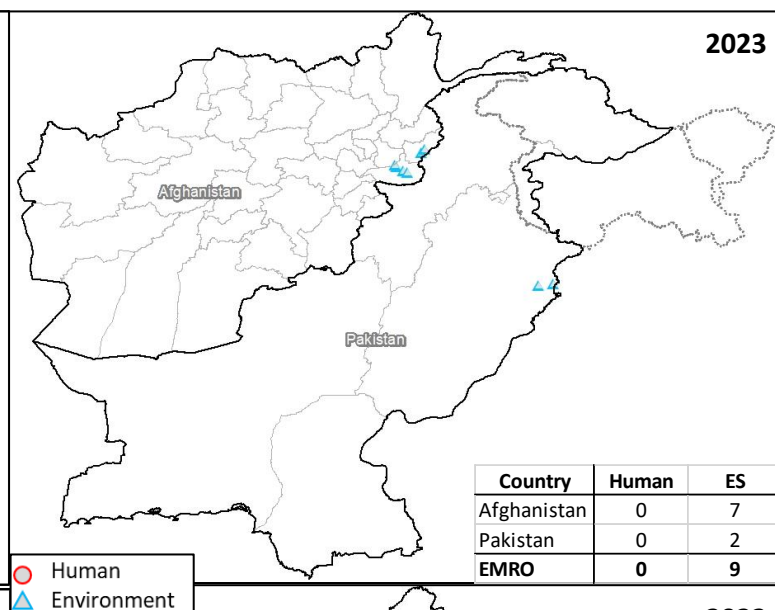
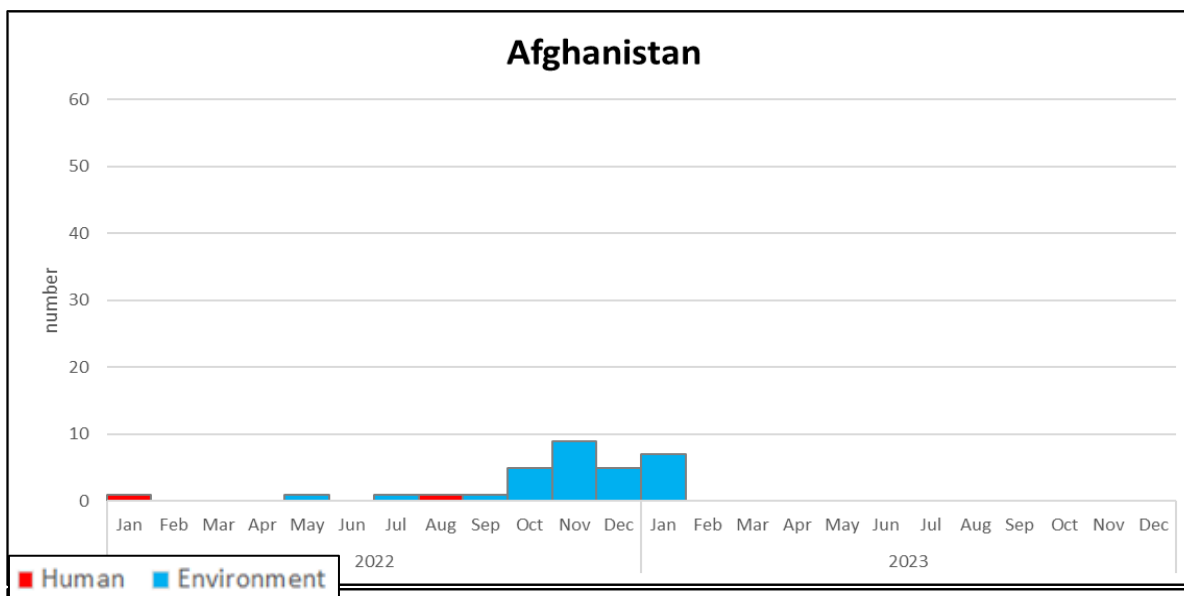
- Human Cases:** No new cVDPV2 cases reported this week. The cVDPV2 count in 2022 remains 166 from; Sudan (1); Somalia (5); and Yemen (160).
- Environmental Samples (ES):** Yemen reported ten new cVDPV2 positive ES this week. AlHudaidah province reported 4 ES from Al Meina district; Sana'a City reported 4 ES from Bani El Harith district; and Aden province reported 2 ES from Al Mansourah district. The specimen collection dates varies between 26th June – 28th November 2022.
- In 2022 to date, the positive ES samples' count is 43 from; Sudan (1); Somalia (4); Egypt (6); Djibouti (12); and Yemen (20).



Wild Poliovirus type-1 (WPV1) Vaccine-derived Poliovirus (VDPV)




WPV1 Positive isolates from Afghanistan and Pakistan by source

EMR Polio Bulletin - Issue No. 1271, Week 06 (ending on 12/02/2023)



Virus isolation by country, last 12 months (Feb. 12, 2022 to Feb. 12, 2023)

EMR Polio Bulletin - Issue No. 1271, Week 06 (ending on 12/02/2023)

Source / Virus type 	AFG	DJI	PAK	EGY	JOR	SOM	SUD	YEM	Total
 Human (AFP only)	1		20			6	1	121	149
Wild	1		20						21
cVDPV2						5	1	121	127
aVDPV2									
VDPV2						1			1
 Environment	29	10	40	6	2	5	1	19	112
Wild	29		39						68
cVDPV2		10		6		4	1	19	40
aVDPV2			1						1
VDPV2					2	1			3
Total	30	10	60	6	2	11	2	140	261

Note: Viruses isolated from 'other' sources (example healthy children) are not included in this analysis; they are shown in page No. (8)

Confirmed Wild Polio 1 Cases by month of onset

EMR Polio Bulletin - Issue No. 1271, Week 06 (ending on 12/02/2023)

Country	Total year 2021	Total year 2022	12 Feb.		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022										2023		
			2022	2023	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Afghanistan	4	2	1	0	0	0	0	0	0	0	1	0	0	0	0		29-Aug-22
Bahrain	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			
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	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			
Kuwait	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					
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	1	20	0	0	0	2	8	4	0	5	1	0	0				15-Sep-22
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	0			
Saudi Arabia	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Somalia	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 ****	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				
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						
EMR	5	22	1	0	0	2	8	4	0	6	1	0	0	0	0	0	15-Sep-22

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

Investigation of AFP cases with paralysis onset in 2022 & 2023

EMR Polio Bulletin - Issue No. 1271, Week 06 (ending on 12/02/2023)

COUNTRY	2023									2022									Line List
	AFP cases	Case classification						Surveillance indicators		AFP cases	Case classification						Surveillance indicators		Date of latest
		Total Confirmed WPV1 Polio Cases	Polio Compatible	Discarded (non Polio AFP)	VDPV	Pending classification > 90 days from onset	Pending LAB classification > 90 days from onset	Annualized Non polio AFP rate	% with adequate specimens		Total Confirmed WPV1 Polio Cases	Polio Compatible	Discarded (non polio AFP)	VDPV	Pending classification > 90 days from onset	Pending LAB classification > 90 days from onset	Annualized Non polio AFP rate	% with adequate specimens	
AFGHANISTAN	474	0	0	245	0	0	0	18.27	95.78	5366	2	0	5325	1	9	0	24.31	94.47	9-Feb-23
BAHRAIN	2	0	0	0	0	0	0	5.67	100.00	30	0	0	23	0	4	0	10.02	83.33	5-Feb-23
DIJIBOUTI	1	0	0	0	0	0	0	2.08	100.00	19	0	0	19	0	0	0	4.65	57.89	11-Feb-23
EGYPT	124	0	0	44	0	0	0	2.63	80.65	1394	0	0	1352	0	21	0	3.48	91.54	9-Feb-23
IRAN	79	0	0	43	0	0	0	3.28	97.47	824	0	0	824	0	0	0	4.06	97.69	11-Feb-23
IRAQ	85	0	0	28	0	0	0	4.14	92.94	835	0	0	828	0	1	0	4.78	91.86	10-Feb-23
JORDAN	10	0	0	6	0	0	0	2.09	100.00	89	0	0	85	0	0	0	2.14	94.38	9-Feb-23
KUWAIT	6	0	0	1	0	0	0	5.51	83.33	52	0	0	52	0	0	0	5.62	98.08	9-Feb-23
LEBANON	8	0	0	0	0	0	0	4.26	62.50	57	0	0	37	0	7	0	3.58	85.96	29-Jan-23
LIBYA	12	0	0	3	0	0	0	3.93	100.00	101	0	0	93	0	0	0	3.89	100.00	10-Feb-23
MOROCCO	13	0	0	3	0	0	0	1.14	30.77	93	0	0	52	0	32	1	0.91	55.91	10-Feb-23
OMAN	1	0	0	0	0	0	0	0.66	100.00	27	0	0	27	0	0	0	2.10	92.59	6-Feb-23
PAKISTAN	1434	0	0	884	0	0	0	12.07	91.84	18938	20	1	18457	0	148	2	18.76	85.54	11-Feb-23
PALESTINE	2	0	0	0	0	0	0	0.84	100.00	33	0	0	22	0	0	0	1.64	100.00	5-Feb-23
QATAR	0	0	0	0	0	0	0			11	0	0	8	0	1	0	2.44	72.73	28-Jan-23
SAUDI ARABIA	27	0	0	0	0	0	0	2.67	92.59	274	0	0	248	0	0	0	3.18	97.45	9-Feb-23
SOMALIA	21	0	0	4	0	0	0	2.15	95.24	355	0	0	343	6	3	2	4.27	97.46	5-Feb-23
SUDAN	74	0	0	24	0	0	0	3.14	97.30	650	0	0	647	1	1	0	3.25	97.08	9-Feb-23
SYRIA	32	0	0	16	0	0	0	3.53	100.00	382	0	0	379	0	0	0	4.96	94.76	11-Feb-23
TUNISIA	8	0	0	0	0	0	0	2.36	100.00	53	0	0	47	0	0	0	1.84	73.58	10-Feb-23
U.A.E.	0	0	0	0	0	0	0			66	0	0	19	0	37	0	4.47	95.45	31-Jan-23
YEMEN	103	0	0	0	0	0	0	5.58	94.17	1377	0	1	1104	160	17	4	8.76	86.71	11-Feb-23
EMR POL	2516	0	0	1301	0	0	0	7.40	92.33	31026	22	2	29991	168	281	9	10.74	88.50	

* 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, with 14 days of paralysis onset and specimens received in the lab in 'Good Condition'

**** Includes all VDPV cases. Further details available in page (8)

For further details on Contacts click: [detail of contact samples](#)

Laboratory investigation of AFP cases with paralysis onset in 2023

EMR Polio Bulletin - Issue No. 1271, Week 06 (ending on 12/02/2023)

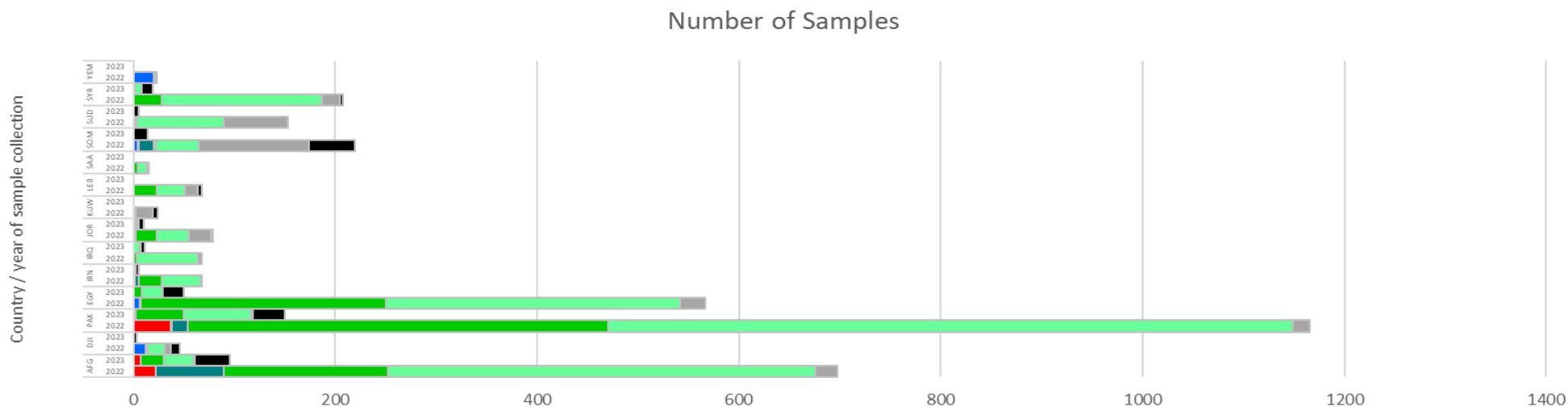
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators					Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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**	
	Sequencing performed by CDC and RIVM laboratories		L20B+	L20B+ / NPEV			received within last 14 days	received more than 14 days ago	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV									
Afghanistan	RRL Pakistan	480	19	1	29	206	183			8						12					6	8%	100%	100%	100%	11-Feb-23
Bahrain	NPL Oman / CDC																									29-Jan-23
Djibouti	NPL Kenya / CDC	1					1																			11-Feb-23
Egypt	RRL Egypt	117	1		4	39	48	25		1												14%	100%	100%	100%	9-Feb-23
Iran	NPL Iran / CDC	66				48	9	9														0%	100%		100%	4-Feb-23
Iraq	NPL Iraq, RRL Egypt	85			5	52	27	1														9%	100%		100%	10-Feb-23
Jordan	NPL Jordan, RRL Egypt	9			1	7	1															11%	100%		100%	9-Feb-23
Kuwait	RRL Kuwait / RIVM	6				2	3	1														0%	100%		100%	9-Feb-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	4						4																		2-Feb-23
Libya	RRL Tunisia / RIVM	3				3																0%	100%		100%	25-Jan-23
Morocco	NPL Morocco, RRL Tunisia	11				9	2															0%	100%		100%	10-Feb-23
Oman	NPL Oman / CDC	1						1																		29-Jan-23
Pakistan	RRL Pakistan	1402	56		79	789	456	3		38						46					1	7%	100%	100%	100%	11-Feb-23
Palestine & UNRWA		2				2																0%	50%		100%	5-Feb-23
Qatar	NPL Oman / CDC																									29-Jan-23
Saudi Arabia	NPL Saudi Arabia / CDC	8						8																		16-Jan-23
Somalia	NPL Kenya / CDC	21				5	1	16														0%	40%		100%	5-Feb-23
Sudan	NPL Sudan / RRL Egypt	42	1		1	7		33														11%	100%			29-Jan-23
Syria	NPL Syria / RRL Egypt	29				16	3	10														0%	100%			2-Feb-23
Tunisia	RRL Tunisia	7				2		5														0%	100%		100%	25-Jan-23
U.A.E	NPL Oman / CDC																									29-Jan-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt																									11-Feb-23
Total EMR 2023		2294	77	1	119	1187	734	116		47						58					7	7%	100%	100%	100%	
Total EMR 2022		30334	1062	119	4809	24259	25	55	22 *	556	1		39	167 **		719		6	8	2	3	13%	93%	89%	93%	

* In 2022 - Three WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

** In 2022 - Four cVDPV2 cases are identified by positive contacts (Index cases were negative for cVDPV2)

Environmental Surveillance Isolation by Classification

EMR Polio Bulletin - Issue No. 1271, Week 06 (ending on 12/02/2023)

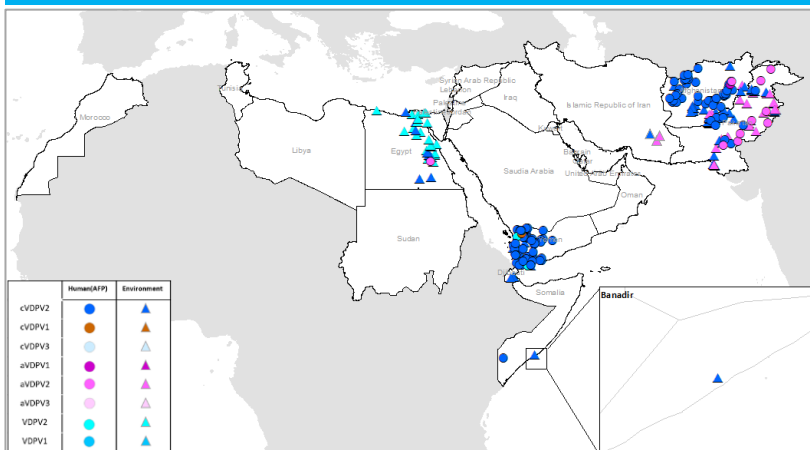


	AFG		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	7			37	2																						
cVDPV2			12				6														4		1				20	
Wild+cVDPV2																												
Wild+aVDPV2																												
Wild+aVDPV3																												
aVDPV1																												
aVDPV2					1																							
aVDPV3																												
VDPV1																												
VDPV2							1		1				2								1						2	
SL2	68		2		16				4												15							
SL1/3	162	23			416	48	243	8	23		3		21	2			23		4		2		2		28	1		
Entero	424	30	17		679	66	292	21	39	2	61	6	32	2	2		28		9		43		87		159	7		
Negative	22	1	6		17	2	25		1		4	1	22	1	17		13		2		109		63		18			
Pending		35	9	3		32		21		3		4	2	5	5		4				45	14		5	3	11	1	

VDPVs isolations by Source and Country

EMR Polio Bulletin - Issue No. 1270 Week 05 (ending on 05/02/2023)

VDPV Isolates, EMR countries, 2021



VDPVs isolated from 2017-2022

VDPV Isolate type	EMR Country	Sources																											
		AFP cases(Human)						Contacts(Human)						Environment						Other Sources (Healthy Children)									
		2017	2018	2019	2020	2021	2022	Most recent	2017	2018	2019	2020	2021	2022	Most recent	2017	2018	2019	2020	2021	2022	Most recent	2017	2018	2019	2020	2021	2022	Most recent
cVDPV2	Afghanistan				307	43	09-07-21												174	40		23-06-21							
	Djibouti																		5	12		22-05-22							
	Egypt																		12	6		29-08-22							
	Iran																		3	1		20-02-21							
	Pakistan			22	135	8	23-04-21											38	135	35		11-08-21							
	Somalia	6	3	14	1	5	23-08-22	3	1	11		5	31-08-22	2	19	5	26	1	4	28-08-22			1	5		1	10-03-22		
	Sudan				58	1	31-10-22				18		08-10-20				14		1	28-11-22				4			24-08-20		
	Syria	74					21-09-17	63					12-09-17									4						20-08-17	
Yemen				66	160	02-12-22				23	38	05-08-22					13	20	28-11-22										
cVDPV1	Yemen			1	31	3	27-03-21			2			10-07-19																
cVDPV3	Somalia		7				07-09-18	7					30-06-18		12						23-08-18								
aVDPV1	Afghanistan					1	22-02-21																						
	Egypt																	1			16-07-20								
	Pakistan																		1		10-02-21								
	Somalia				1		26-01-20																						
	Yemen					1	20-07-21																						
aVDPV2	Afghanistan				3	1	1	01-01-22			75	15	1	14-02-22				2	3		25-07-21								
	Egypt					1	30-05-21					1	14-06-21					1			21-09-20								
	Iran																		2		23-09-21								
	Pakistan				7	8	24-09-21			8	19	1	28-04-21	5		3	22	37	1	15-02-22									
	Somalia														2	1				03-02-19									
	Yemen					3	01-11-21				1		09-12-21																
aVDPV3	Afghanistan				1		23-06-20																						
	Egypt																	2			30-09-20								
	Pakistan																		1		05-04-21								
	Libya					1	15-01-20																						
VDPV1	Egypt																		1		11-07-21								
VDPV2	Egypt																		67	1	12-01-22								
	Iran																			1	04-02-22								
	Jordan																			2	25-05-22								
	Pakistan																			1	15-02-22								
	Somalia						1	01-09-22																					
	Yemen																			1	24-04-22								

Note: No VDPV isolate in 2023 to date

Important links

EMR Polio Bulletin - Issue No. 1270, Week 05 (ending on 05/02/2023)

Important Links

- [Global Polio Eradication Initiative](#)
- [IMST – Outbreak Response Dashboard](#)
- [nOPV2 Tracker](#)
- [Pol-MIS](#) (restricted to registered users)
- [Containment](#) (restricted to registered users)
- [Certification \(e-ACR\)](#) (restricted to registered users)