

Highlights



Children
Paralyzed
by polio

2022

- 22 cases of Wild Polio 1
 - 02 in Afghanistan
 - 20 in Pakistan

- 167 cases of cVDPV2
 - 05 in Somalia
 - 161 in Yemen
 - 01 in Sudan

- Zero cVDPV1 cases

2023

- Zero case of Wild Polio 1

- Zero case of cVDPV2

- Zero case of cVDPV1



Sewage
water
sampling

2022

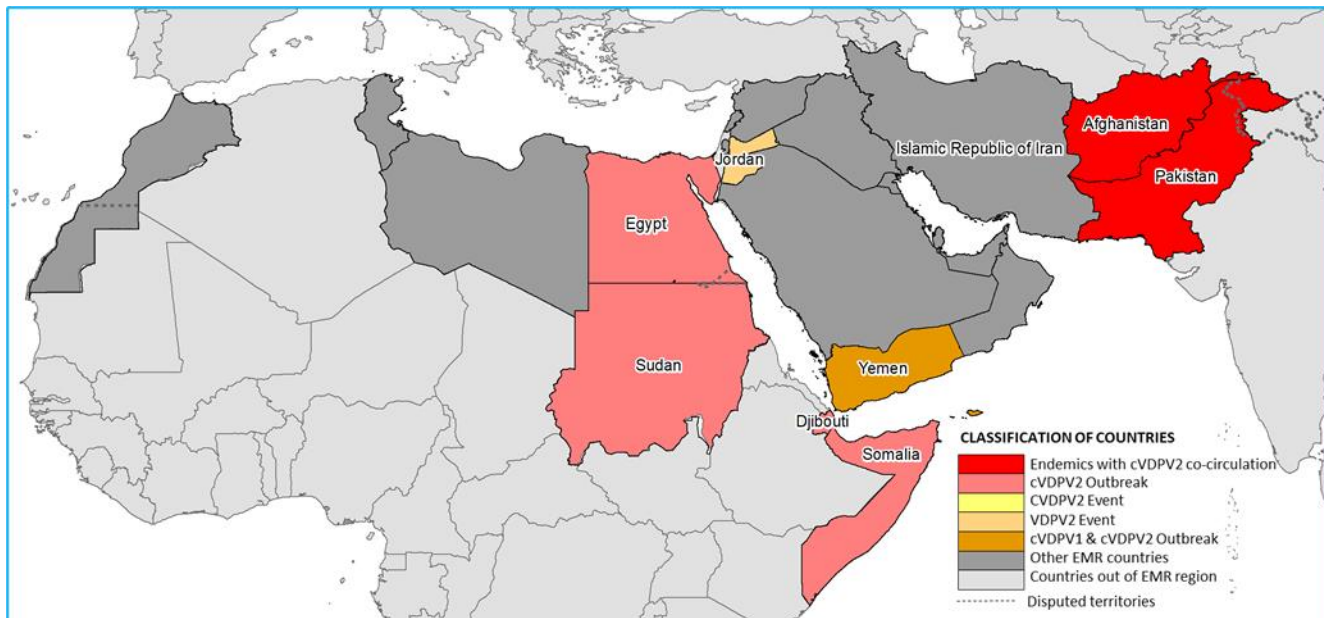
- 59 samples Wild Polio 1
 - 22 in Afghanistan
 - 37 in Pakistan

- 43 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 04 in Somalia
 - 01 in Sudan
 - 20 in Yemen

2023

- 11 samples Wild Polio 1
 - 09 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). No human cases reported in 2023
- Environmental Samples (ES):** Afghanistan reported two new WPV1 positive ES this week, one from each of Jalabad and Batikot districts of Nangarhar Province. The specimens' collection dates are on 1st and 2nd February 2023 respectively. In 2023 to date, the positive WPV1 ES count is 11 (9 in Afghanistan and 2 in Pakistan) while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

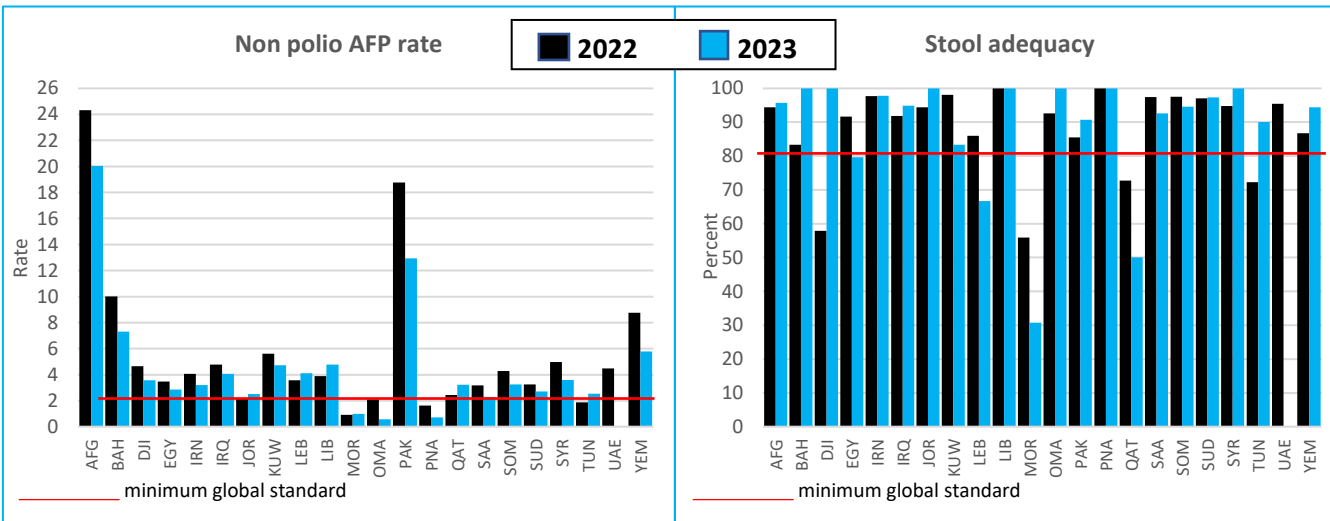
Circulating Vaccine derived poliovirus (cVDPV)

- Human Cases:** One new cVDPV2 case in 2022 was reported from Yemen. The case is from Al Zuhra district of Al Hudaidah province, with a date of onset on 14th December 2022. The cVDPV2 count in 2022 to date is 167 from: Sudan (1); Somalia (5); and Yemen (161).
- Environmental Samples (ES):** No new cVDPV2 positive environmental samples reported this week.
- In 2022 to date, the positive ES samples' count is 43 from: Sudan (1); Somalia (4); Egypt (6); Djibouti (12); and Yemen (20).

Regional activities

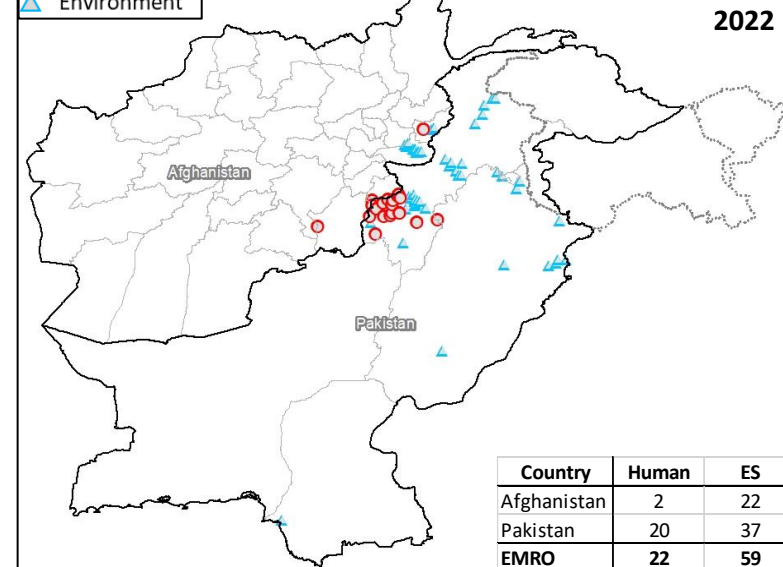
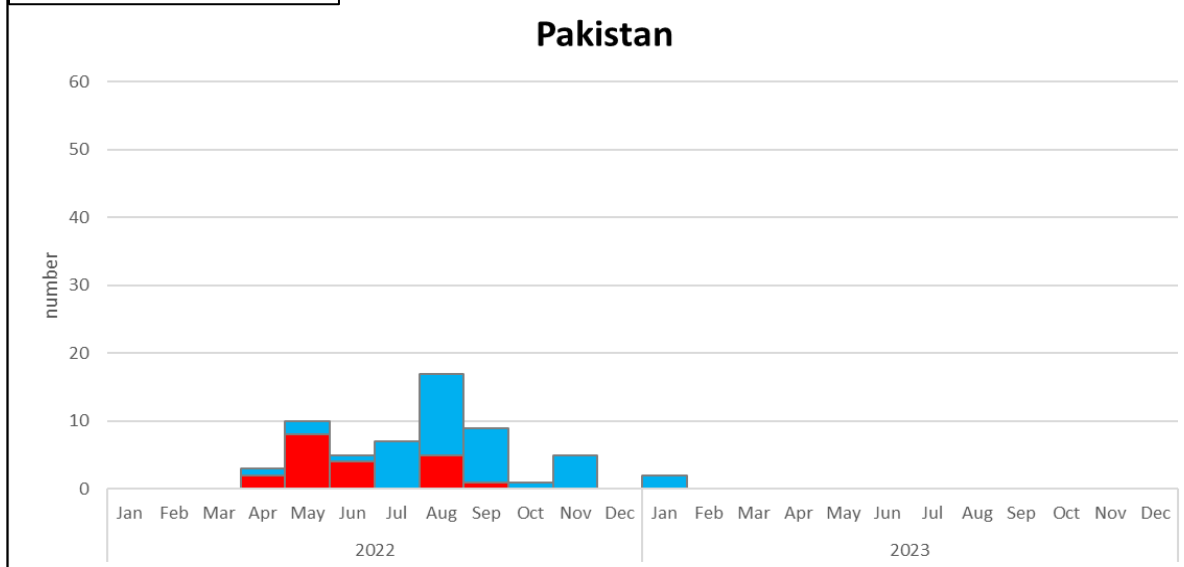
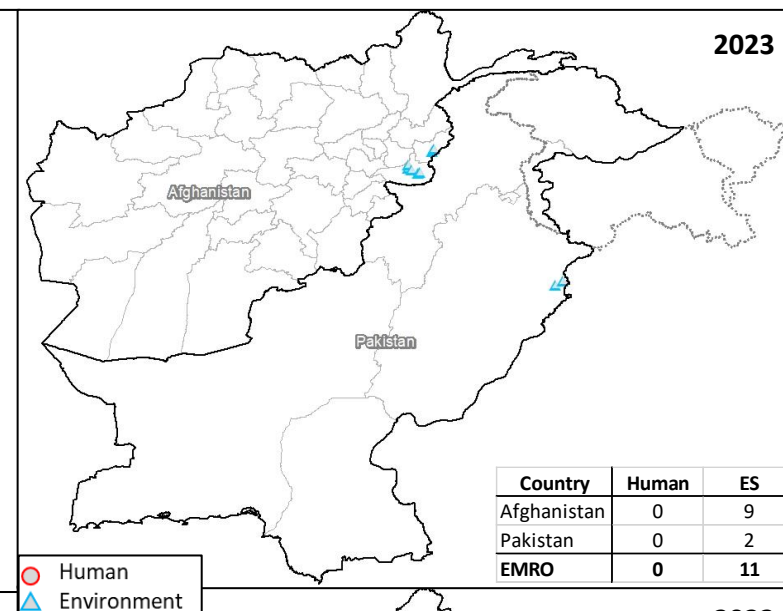
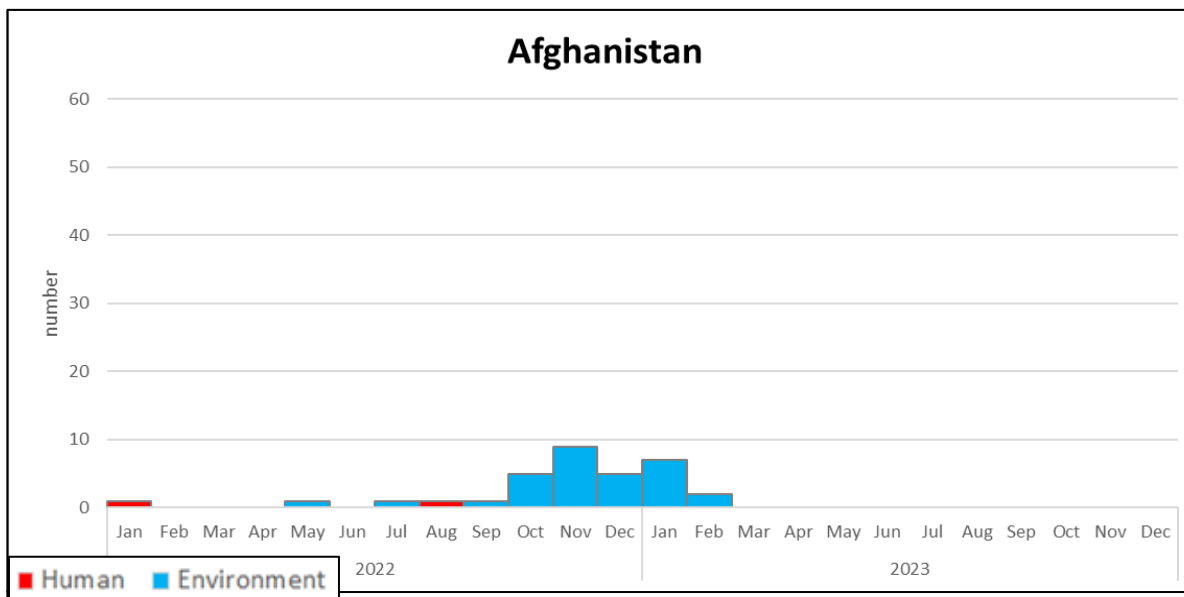
- A WHO/EMRO technical support visit for surveillance and certification took place from 12-16 February 2023 in Kuwait.

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






WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (Feb. 19, 2022 to Feb. 19, 2023)

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Source / Virus type 	AFG	DJI	PAK	EGY	JOR	SOM	SUD	YEM	Total
 Human (AFP only)	1		20			5	1	116	143
Wild	1		20						21
cVDPV2						3	1	116	120
aVDPV2						2			2
VDPV2									
 Environment	31	9	39	6	2	5	1	24	117
Wild	31		39						70
cVDPV2		9		6		4	1	22	42
aVDPV2									
VDPV2					2	1		2	5
Total	32	9	59	6	2	10	2	140	260

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

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Country	Total year 2021	Total year 2022	19 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	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	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	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		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			
Somalia	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			
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

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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	605	0	0	347	0	0	0	20.05	95.70	5367	2	0	5328	1	10	0	24.32	94.43	18-Feb-23
BAHRAIN	3	0	0	0	0	0	0	7.32	100.00	30	0	0	27	0	1	0	10.02	83.33	19-Feb-23
DJIBOUTI	2	0	0	0	0	0	0	3.58	100.00	19	0	0	19	0	0	0	4.65	57.89	18-Feb-23
EGYPT	157	0	0	61	0	0	0	2.87	79.62	1394	0	0	1361	0	16	0	3.48	91.61	16-Feb-23
IRAN	90	0	0	47	0	0	0	3.21	97.78	824	0	0	824	0	0	0	4.06	97.69	18-Feb-23
IRAQ	97	0	0	54	0	0	0	4.06	94.85	835	0	0	828	0	1	0	4.78	91.86	15-Feb-23
JORDAN	14	0	0	9	0	0	0	2.52	100.00	89	0	0	85	0	0	0	2.14	94.38	16-Feb-23
KUWAIT	6	0	0	1	0	0	0	4.74	83.33	52	0	0	52	0	0	0	5.62	98.08	9-Feb-23
LEBANON	9	0	0	0	0	0	0	4.12	66.67	57	0	0	37	0	7	0	3.58	85.96	11-Feb-23
LIBYA	17	0	0	3	0	0	0	4.79	100.00	101	0	0	101	0	0	0	3.89	100.00	18-Feb-23
MOROCCO	13	0	0	3	0	0	0	0.98	30.77	93	0	0	52	0	32	1	0.91	55.91	10-Feb-23
OMAN	1	0	0	1	0	0	0	0.57	100.00	27	0	0	27	0	0	0	2.10	92.59	12-Feb-23
PAKISTAN	1790	0	0	1183	0	0	0	12.95	90.67	18951	20	1	18482	0	160	2	18.77	85.49	19-Feb-23
PALESTINE	2	0	0	0	0	0	0	0.73	100.00	33	0	0	22	0	0	0	1.64	100.00	5-Feb-23
QATAR	2	0	0	0	0	0	0	3.24	50.00	11	0	0	8	0	3	0	2.44	72.73	19-Feb-23
SAUDI ARABIA	27	0	0	0	0	0	0	2.30	92.59	274	0	0	248	0	1	0	3.18	97.45	9-Feb-23
SOMALIA	37	0	0	20	0	0	0	3.26	94.59	356	0	0	349	6	0	0	4.28	97.47	19-Feb-23
SUDAN	74	0	0	24	0	0	0	2.70	97.30	650	0	0	647	1	1	0	3.25	97.08	9-Feb-23
SYRIA	38	0	0	16	0	0	0	3.61	100.00	382	0	0	379	0	0	0	4.96	94.76	18-Feb-23
TUNISIA	10	0	0	0	0	0	0	2.54	90.00	54	0	0	47	0	0	0	1.88	72.22	17-Feb-23
U.A.E.	0	0	0	0	0	0	0			66	0	0	19	0	40	0	4.47	95.45	31-Jan-23
YEMEN	124	0	0	2	0	0	0	5.77	94.35	1377	0	1	1142	161	21	5	8.76	86.71	19-Feb-23
EMR POL	3118	0	0	1771	0	0	0	7.88	91.66	31042	22	2	30084	169	293	8	10.74	88.46	

* 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

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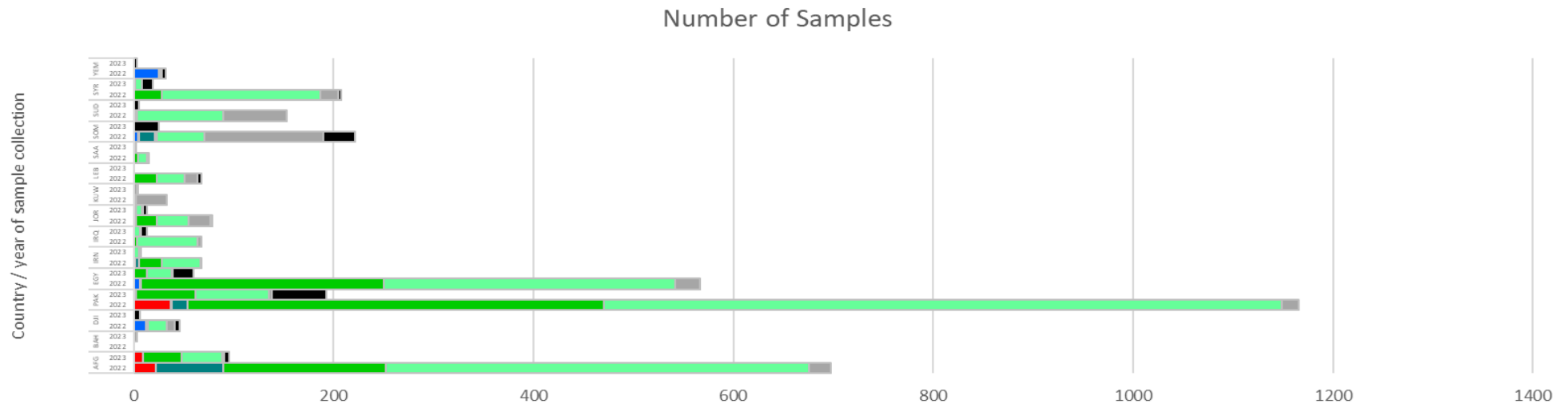
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators				Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	607	27	1	42	293	205	1		13						15					8	9%	100%	100%	100%	11-Feb-23
Bahrain	NPL Oman / CDC																									16-Feb-23
Djibouti	NPL Kenya / CDC	2					1	1																		18-Feb-23
Egypt	RRL Egypt	144	1		13	81	47	2		1												14%	91%	100%	100%	16-Feb-23
Iran	NPL Iran / CDC	122				94	27	1														0%	100%		100%	18-Feb-23
Iraq	NPL Iraq, RRL Egypt	98	1		7	61	28	1								1						10%	100%	100%	100%	17-Feb-23
Jordan	NPL Jordan, RRL Egypt	14			1	8	4	1														11%	100%		100%	18-Feb-23
Kuwait	RRL Kuwait / RIVM	6				3	2	1														0%	100%		100%	16-Feb-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	4						4																		2-Feb-23
Libya	RRL Tunisia / RIVM	12				3	3	6														0%	100%		100%	12-Feb-23
Morocco	NPL Morocco, RRL Tunisia	12				9	3															0%	100%		100%	17-Feb-23
Oman	NPL Oman / CDC	3				2	1															0%	100%		100%	16-Feb-23
Pakistan	RRL Pakistan	1781	79		110	1068	482	15		47						62					2	7%	100%	100%	100%	19-Feb-23
Palestine & UNRWA		2				2																0%	50%		100%	5-Feb-23
Qatar	NPL Oman / CDC																									16-Feb-23
Saudi Arabia	NPL Saudi Arabia / CDC	34	1		1	17	7	8		1												5%	100%	100%	100%	12-Feb-23
Somalia	NPL Kenya / CDC	37	1		4	16	7	9												1		19%	20%		100%	19-02-2023
Sudan	NPL Sudan / RRL Egypt	42	1		1	7		33								1						11%	100%	100%	100%	29-Jan-23
Syria	NPL Syria / RRL Egypt	29				16		13														0%	100%			2-Feb-23
Tunisia	RRL Tunisia	36			1	12	9	14														6%	100%		100%	12-Feb-23
U.A.E	NPL Oman / CDC																									16-Feb-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	2				2																0%	0%		100%	19-Feb-23
Total EMR 2023		2987	111	1	180	1694	826	110		62						79					11	7%	99%	100%	100%	
Total EMR 2022		30423	1064	119	4818	24339	16	62	22 *	555	1		38	168 **		720		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

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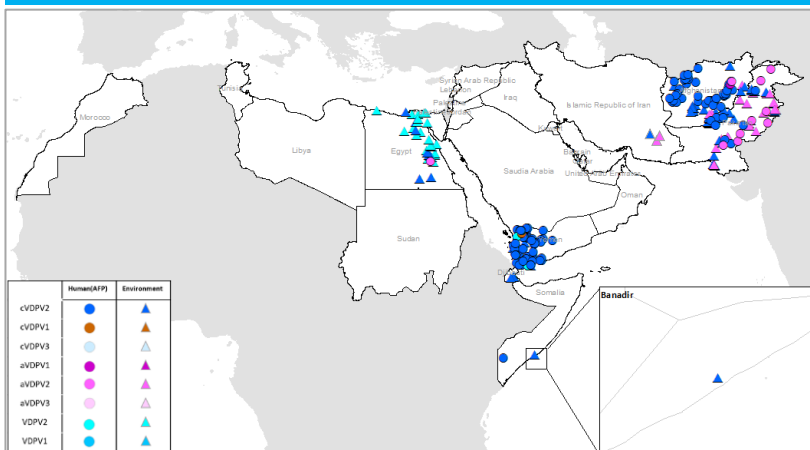


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
🇺🇸 Wild	22	9					37	2																						
🇧🇩 cVDPV2					12				6														4		1					25
🇧🇩 Wild+cVDPV2																														
🇺🇸 Wild+aVDPV2																														
🇺🇸 Wild+aVDPV3																														
🇵🇰 aVDPV1																														
🇵🇰 aVDPV2							1																							
🇵🇰 aVDPV3																														
🇧🇩 VDPV1																														
🇧🇩 VDPV2									1		1				2								1							2
🇵🇰 SL2	68				2		16				4											16								1
🇵🇰 SL1/3	162	39					416	60	243	13	23		3		21	2			23		4		2		2		28	1		
🇵🇰 Entero	424	41			19		679	73	292	25	39	5	61	6	32	6	2		28		9	2	48		87		159	7		
🇵🇰 Negative	22	2		3	8		17	3	25	1	1		4	1	22	1	31	3	13		2		119		63		18			
🇵🇰 Pending		5			5	6		55		21		2		6	2	4		1	4				31	25		5	3	11	4	3

VDPVs isolations by Source and Country

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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	161	14-12-22				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

- [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)