

Highlights



**Children
Paralyzed
by polio**

2022

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

2023

- 11 cases of Wild Polio 1
 - 06 in Afghanistan
 - 05 in Pakistan

- 168 cases of cVDPV2
 - 05 in Somalia
 - 162 in Yemen
 - 01 in Sudan

- 8 cases of cVDPV2
 - 05 in Somalia
 - 03 in Yemen

- Zero cVDPV1 cases

- Zero case of cVDPV1



**Sewage
water
sampling**

2022

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

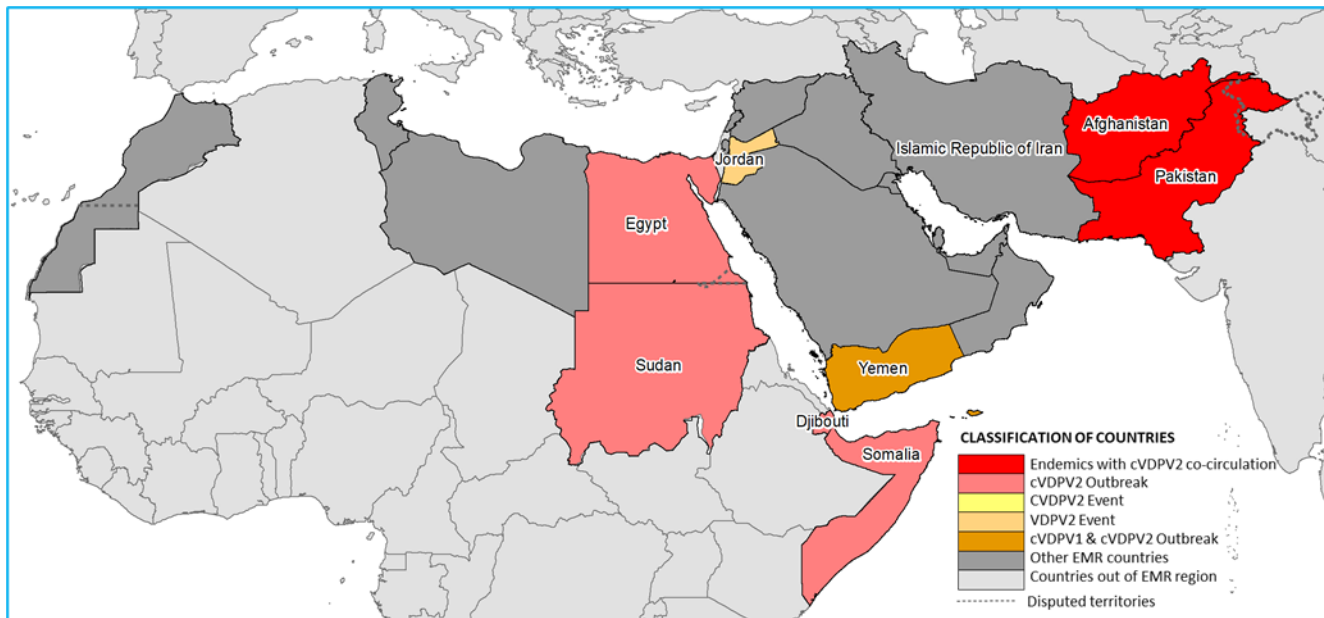
2023

- 110 samples Wild Polio 1
 - 46 in Afghanistan
 - 64 in Pakistan

- 53 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 06 in Somalia
 - 01 in Sudan
 - 28 in Yemen

- 15 samples of cVDPV2
 - 06 in Somalia
 - 03 in Yemen
 - 06 in Egypt

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

Wild Poliovirus

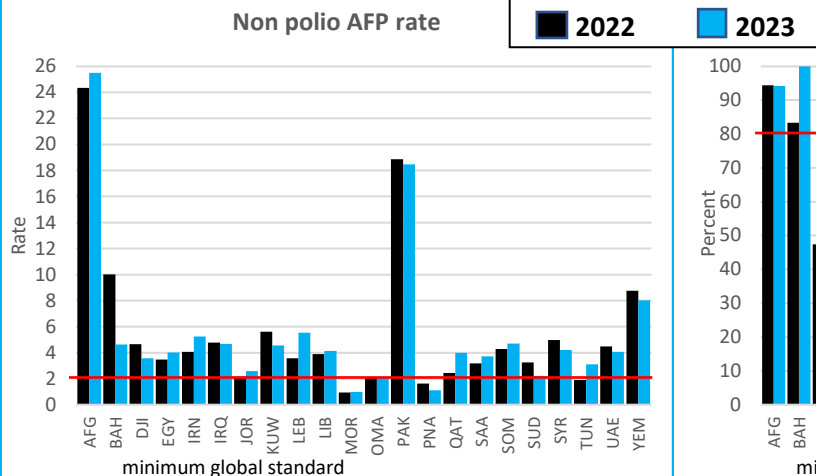
- One new WPV1 case reported this week from Pakistan. The new WPV1 case is from Karachi district (Karachi East town) of Sindh province, with date of onset 15th October 2023. The WPV1 cases count in 2023 to date is 11 (6 from Afghanistan and 5 from Pakistan) and in 2022, the WPV1 cases count remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- Sixteen new WPV1 positive environmental samples reported this week (7 from Afghanistan and 9 from Pakistan). The positive samples are as follows:
 - Afghanistan:** 4 from Nangarhar province (1 from Behsud and 3 from Jalalabad districts); 1 each from Kabul district of Kabul province, Kandahar district of Kandahar province, and Zabul province (Qalat district). Dates of collection vary between 21-23 October 2023.
 - Pakistan:** 4 from Karachi district of Sindh province (2 each from Karachi South town and Karachi East town); 3 from Khyber Pukhtunkhwa province (1 each from Peshawar, Kohat and Nowshera districts) and 2 from Balochistan province (Both from Chaman district). Dates of collection vary between 11-24 October 2023.

The positive WPV1 ES count in 2023 to date is 110 (46 in Afghanistan and 64 in Pakistan), and in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

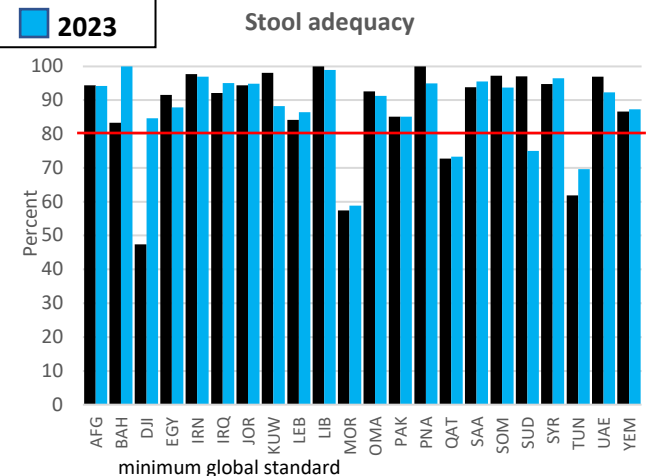
Circulating Vaccine derived poliovirus (cVDPV)

- One new cVDPV2 case reported this week from Somalia. The new cVDPV2 case is from Bay district of Baidoa province, with date of onset 16th September 2023. The count of cVDPV2 cases in 2023 to date is 8 (5 from Somalia and 3 from Yemen) and in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
- One new cVDPV2 positive environmental sample was reported this week from Somalia. The positive sample is from Waberi district of Banadir province, with sample collection date of 7th September 2023. The cVDPV2 positive environmental samples count in 2023 to date is 15 (6 each from Egypt and Somalia and 3 from Yemen) and in 2022, the count remains 53 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 28 in Yemen).

Non polio AFP rate



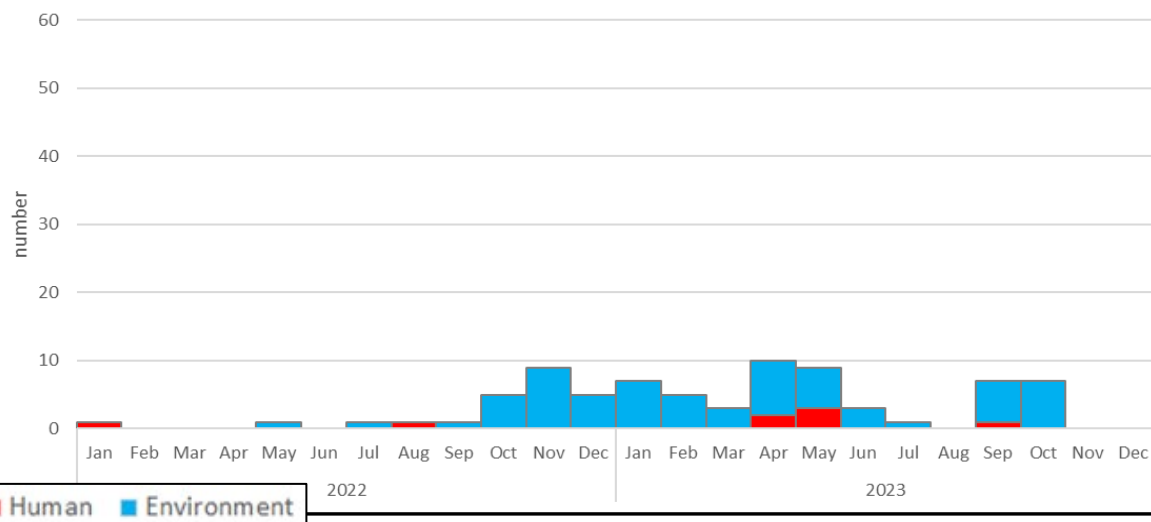
Stool adequacy



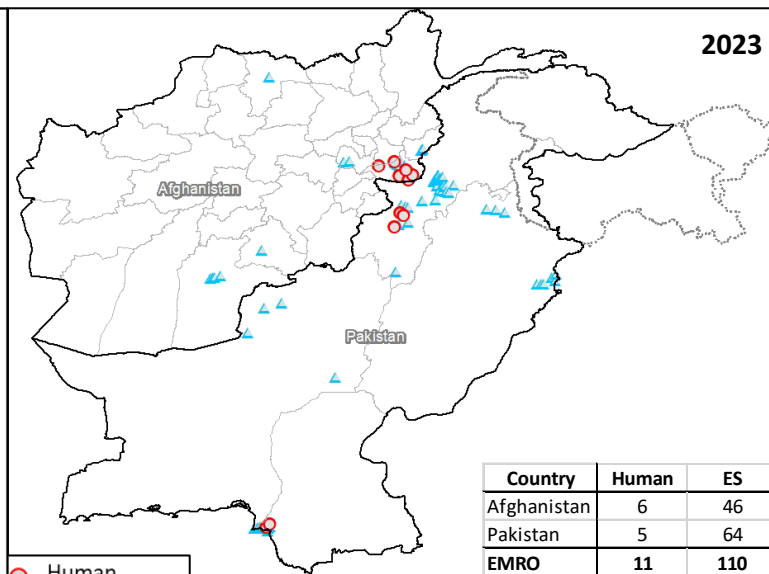
WPV1 Positive isolates from Afghanistan and Pakistan by source

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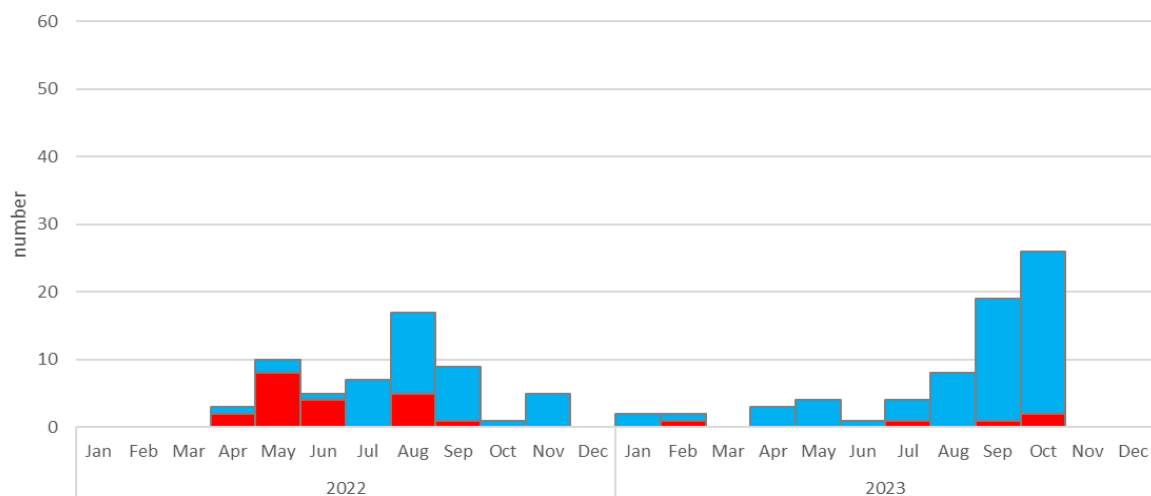
Afghanistan



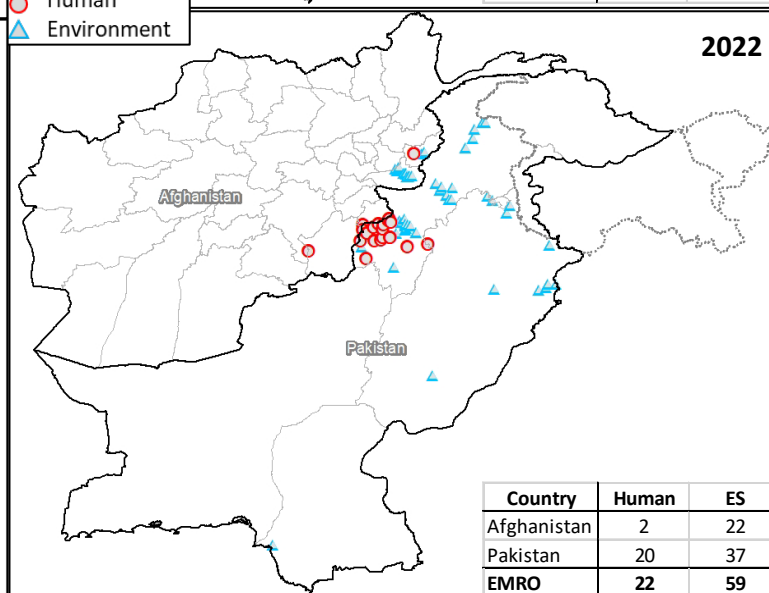
2023



Pakistan



2022



For further details on Wild Poliovirus click: [line-list of WPV isolates](#)

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

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	6	5	1	5		6	23
Wild	6	5					11
cVDPV2				5		5	10
aVDPV2							
VDPV2			1			1	2
VDPV3							
Environment	55	68	10	7	2	7	149
Wild	55	67					122
cVDPV2			6	7	1	6	20
aVDPV2			4				4
VDPV2					1	1	2
VDPV3		1					1
Total	61	73	11	12	2	13	172

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	12 November		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022	2023											
			2022	2023	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
Afghanistan	4	2	2	6	0	0	0	0	2	3	0	0	0	1			04-Sep-23
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	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				
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	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			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	1	20	20	5		0	1	0	0	0	0	1	0	1	2		15-Oct-23
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	0			
Somalia	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				
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				
Yemen	0	0	0	0	0	0	0	0	0	0							
EMR	5	22	22	11	0	0	1	0	2	3	0	1	0	2	2	0	15-Oct-23

**** 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	4976	6	0	4680	0	6	0	25.51	94.15	5368	2	0	5365	1	0	0	24.34	94.41	12-Nov-23
BAHRAIN	12	0	0	9	0	2	0	4.63	100.00	30	0	0	30	0	0	0	10.02	83.33	12-Nov-23
DJIBOUTI	13	0	0	9	0	0	0	3.57	84.62	19	0	0	19	0	0	0	4.65	47.37	12-Nov-23
EGYPT	1435	0	0	1264	1	19	0	4.02	87.87	1394	0	0	1394	0	0	0	3.48	91.54	9-Nov-23
IRAN	960	0	0	917	0	0	0	5.25	96.98	824	0	0	824	0	0	0	4.06	97.69	11-Nov-23
IRAQ	713	0	0	674	0	12	0	4.69	95.09	835	0	0	835	0	0	0	4.78	92.10	11-Nov-23
JORDAN	97	0	0	90	0	0	0	2.58	94.85	89	0	0	89	0	0	0	2.14	94.38	12-Nov-23
KUWAIT	34	0	0	34	0	0	0	4.56	88.24	52	0	0	52	0	0	0	5.62	98.08	22-Oct-23
LEBANON	74	0	0	61	0	6	0	5.54	86.49	57	0	0	57	0	0	0	3.58	84.21	12-Nov-23
LIBYA	93	0	0	88	0	0	0	4.14	98.92	101	0	0	101	0	0	0	3.89	100.00	11-Nov-23
MOROCCO	102	0	0	42	0	40	3	0.99	58.82	94	0	0	92	0	2	0	0.92	57.45	24-Oct-23
OMAN	23	0	0	22	0	0	0	2.11	91.30	27	0	0	27	0	0	0	2.10	92.59	12-Nov-23
PAKISTAN	15631	5	0	14607	0	138	0	18.47	85.09	19032	20	1	19011	0	0	0	18.86	85.14	12-Nov-23
PALESTINE	20	0	0	16	0	1	0	1.11	95.00	33	0	0	32	1	0	0	1.64	100.00	5-Nov-23
QATAR	15	0	0	11	0	2	0	3.99	73.33	11	0	0	11	0	0	0	2.44	72.73	11-Nov-23
SAUDI ARABIA	269	0	0	187	0	1	0	3.72	95.54	274	0	0	274	0	0	0	3.18	93.80	12-Nov-23
SOMALIA	366	0	0	342	5	0	0	4.71	93.72	356	0	0	349	6	0	0	4.30	97.19	12-Nov-23
SUDAN	400	0	0	154	0	141	20	2.22	75.00	650	0	0	649	1	0	0	3.25	97.08	12-Nov-23
SYRIA	283	0	0	250	0	0	0	4.20	96.47	382	0	0	382	0	0	0	4.96	94.76	11-Nov-23
TUNISIA	79	0	0	75	0	0	0	3.10	69.62	55	0	0	55	0	0	0	1.91	61.82	3-Nov-23
U.A.E.	52	0	0	36	0	6	0	4.07	92.31	66	0	0	66	0	0	0	4.47	96.97	8-Nov-23
YEMEN	1109	0	0	841	4	8	5	8.03	87.29	1377	0	1	1214	162	0	0	8.77	86.64	11-Nov-23
EMR POL	26756	11	0	24409	10	382	28	10.60	87.87	31126	22	2	30928	171	2	0	10.77	88.18	

* 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)

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	4933	250	26	667	3758	130		5 *	172						207			2	2		12%	93%	100%	98%	12-Nov-23	
Bahrain	NPL Oman / CDC	11			1	10																5%	100%		45%	12-Nov-23	
Djibouti	NPL Kenya / CDC	13			2	7	1	3														22%	67%		78%	12-Nov-23	
Egypt	RRL Egypt	1375	13		143	1100	67	53		7				1		8				1		10%	96%	100%	99%	9-Nov-23	
Iran	NPL Iran / CDC	979	7		9	939	23	1		5						3						1%	100%	100%	99%	11-Nov-23	
Iraq	NPL Iraq, RRL Egypt	715	6		50	626	24	9		5						2						8%	100%	100%	99%	10-Nov-23	
Jordan	NPL Jordan, RRL Egypt	90			17	73																17%	94%		100%	12-Nov-23	
Kuwait	RRL Kuwait / RIVM	39	1		3	31	2	2												1		9%	97%		100%	9-Nov-23	
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	70			1	69																4%	100%			17-Oct-23	
Libya	RRL Tunisia / RIVM	88	1		3	84				1												3%	98%	1	100%	31-Oct-23	
Morocco	NPL Morocco, RRL Tunisia	102			3	97	1	1														3%	99%		93%	10-Nov-23	
Oman	NPL Oman / CDC	23			1	21	1															11%	100%		100%	12-Nov-23	
Pakistan	RRL Pakistan	15261	441	35	2334	11912	459	37	4 *	299						339						13%	92%	100%	96%	12-Nov-23	
Palestine & UNRWA		20	1			18		1		1			1									0%	44%		100%	5-Nov-23	
Qatar	NPL Oman / CDC	15	1			14										1						0%	100%	1	100%	12-Nov-23	
Saudi Arabia	NPL Saudi Arabia / CDC	202	2		5	195				2						1						2%	98%	100%	100%	29-Oct-23	
Somalia	NPL Kenya / CDC	365	10		55	282	3	16		4			2	5		2						16%	5%		95%	12-Nov-23	
Sudan	NPL Sudan / RRL Egypt	368	10	1	73	266		17					3			2		2				19%	99%	100%	31%	14-Apr-23	
Syria	NPL Syria / RRL Egypt	266	4	1	19	226		16														7%	100%			17-Oct-23	
Tunisia	RRL Tunisia	81	1		3	76	1									1						3%	96%	1	98%	31-Oct-23	
U.A.E	NPL Oman / CDC	51			2	43	6															4%	96%		24%	12-Nov-23	
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	896	24	2	182	687		1		11			1	4		18						17%	19%	100%	22%	11-Nov-23	
Total EMR 2023		25963	772	65	3573	20534	718	157	11 *	507			7	10		584			4	3	1	12%	90%	100%	94%		
Total EMR 2022		30461	1068	119	4831	24435		2	22 *	556	2		38	169 **		723		6	8	2	1	13%	93%	89%	92%		

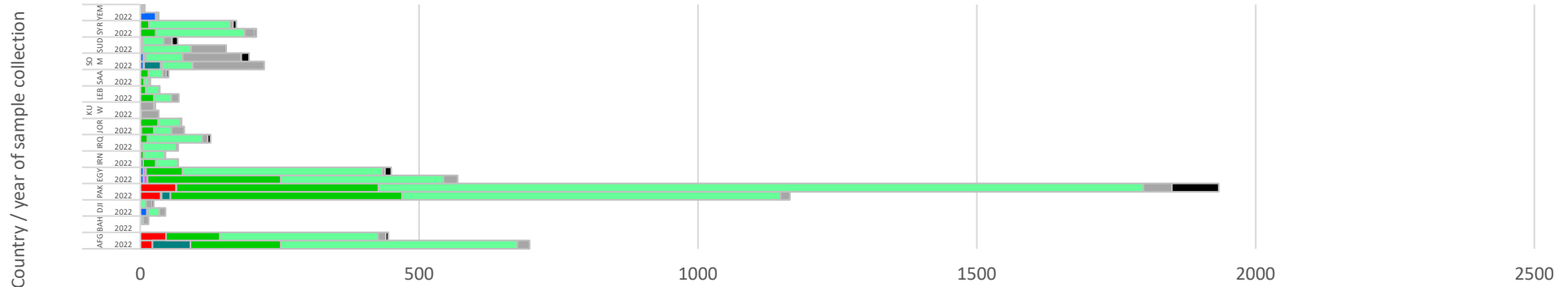
* In 2023 – Two WPV1 cases are confirmed due to positive contacts while in 2022 - three WPV1 cases were confirmed due to positive contacts (Index cases were negative for WPV1)

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

Environmental Surveillance Isolation by Classification

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Number of Samples

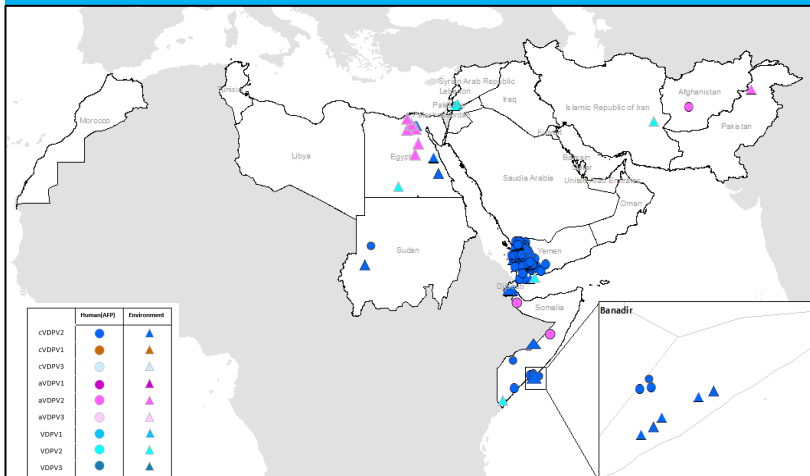


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
🚩 Wild	22	46					37	64																						
🇧🇩 cVDPV2					12				6	6													6	6	1				28	3
🇧🇩 Wild+cVDPV2																														
🇷🇺 Wild+aVDPV2																														
🇷🇺 Wild+aVDPV3																														
🇵🇰 aVDPV1																														
🇵🇰 aVDPV2							1		7	4																				
🇵🇰 aVDPV3																														
🇮🇷 VDPV1																														
🇮🇷 VDPV2											1				2								1			1			1	1
🇮🇷 VDPV3								1																						
🇸🇰 SL2	68				2		16				4												30	2		1			1	2
🇸🇰 SL1/3	162	97		2			415	362	239	66	23	6	3	13	22	32			24	10	7	15	2	2	2	2	28	16	2	1
🇸🇰 Entero	424	283		3	20	10	679	1372	292	358	39	38	61	98	32	39	2		32	24	9	25	55	66	88	38	159	145	1	1
🇸🇰 Negative	22	14		10	11	11	17	51	25	5	1	1	4	10	23	2	31	24	13	1	2	7	128	105	63	15	18	5		
🇸🇰 Pending		5				3		84		11				5		1		3				4		14		10	3	6		

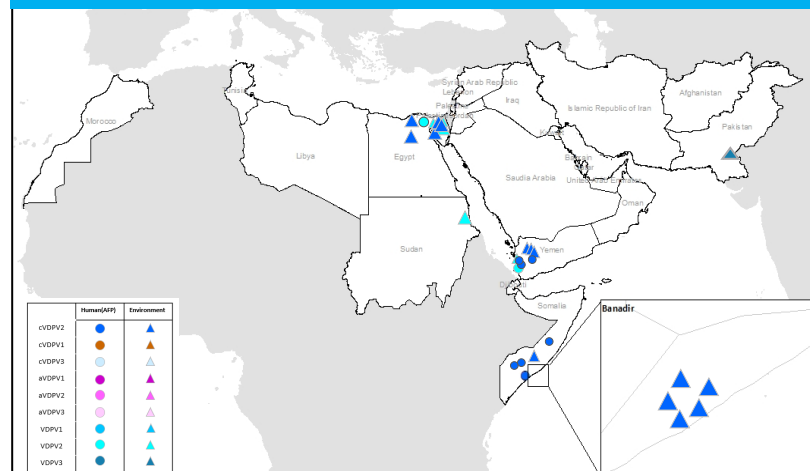
VDPVs isolations by Source and Country

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VDPV Isolates, EMR countries, 2022



VDPV Isolates, EMR countries, 2023



VDPVs isolated from 2018-2023

VDPV Isolate type	EMR Country	Sources																											
		AFP cases(Human)						Contacts(Human)						Environment						Other Sources (Healthy Children)									
		2018	2019	2020	2021	2022	2023	Most recent	2018	2019	2020	2021	2022	2023	Most recent	2018	2019	2020	2021	2022	2023	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	6		13-09-23						
	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	5	16-09-23	3	1	11		5		31-08-22	19	5	26	1	6	6	07-09-23		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
	Yemen					66	162	3				23	40		19-12-22				13	28	3	29-05-23							
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																					
aVDPV2	Yemen					1		20-07-21																					
	Afghanistan			3	1	1		01-01-22			75	15	1		14-02-22			2	3			25-07-21							
	Egypt											1			14-06-21			1	67	7	4	13-04-23							
	Iran																		2			23-09-21							
	Pakistan			7	8			24-09-21		8	19	1			28-04-21		3	22	37	1		15-02-22							
	Somalia					2		01-09-22								2	1					03-02-19							
aVDPV3	Yemen					3		01-11-21			1				09-12-21														
	Afghanistan			1				23-06-20																					
	Egypt																	2				30-09-20							
	Pakistan																		1			05-04-21							
VDPV1	Libya			1				15-01-20																					
VDPV2	Egypt																		1			11-07-21							
	Iran						1	17-07-23													1		04-02-22						
	Jordan																				2		25-05-22						
	Somalia					1		01-09-22													1		22-04-23						
	Sudan																				1		18-09-23						
	Yemen						1	09-05-23												1	1		26-04-23						
VDPV3	Pakistan																			1		14-02-23							

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)