

Highlights



Children
Paralyzed
by polio

2022

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

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

- Zero cVDPV1 cases

2023

- 6 cases of Wild Polio 1
 - 05 in Afghanistan
 - 01 in Pakistan

- 2 cases of cVDPV2
 - 02 in Somalia

- Zero case of cVDPV1



Sewage
water
sampling

2022

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

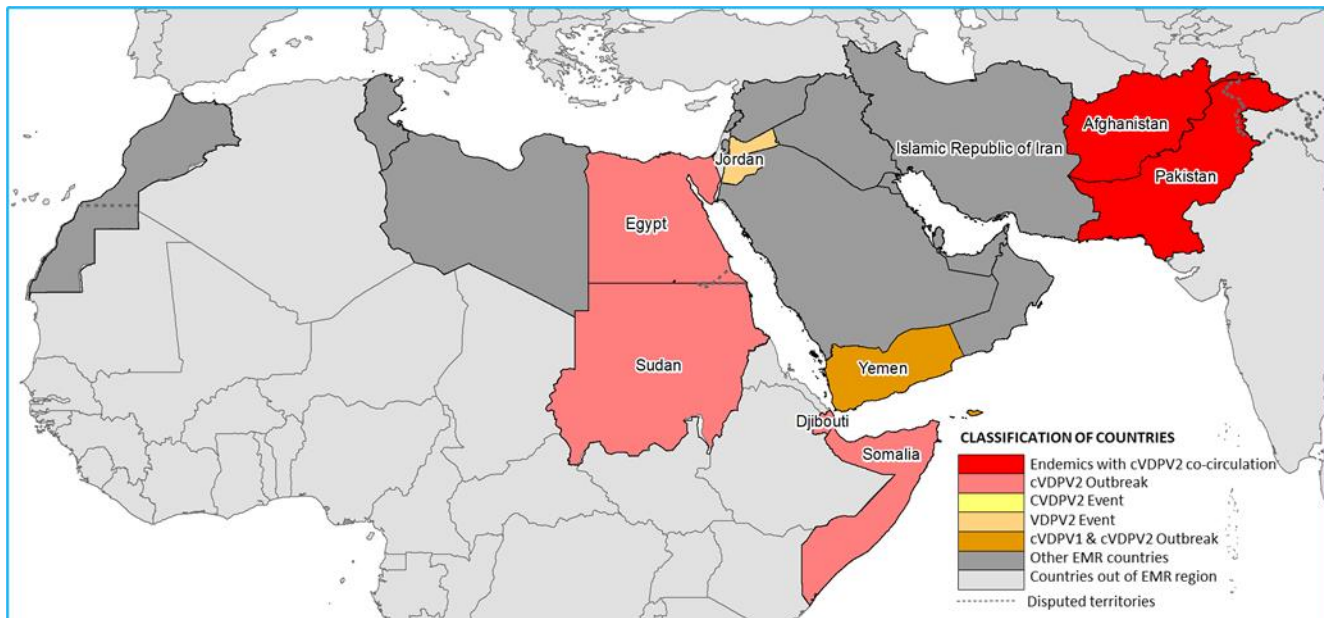
- 50 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 06 in Somalia
 - 01 in Sudan
 - 25 in Yemen

2023

- 43 samples Wild Polio 1
 - 32 in Afghanistan
 - 11 in Pakistan

- 3 samples of cVDPV2
 - 03 in Somalia

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

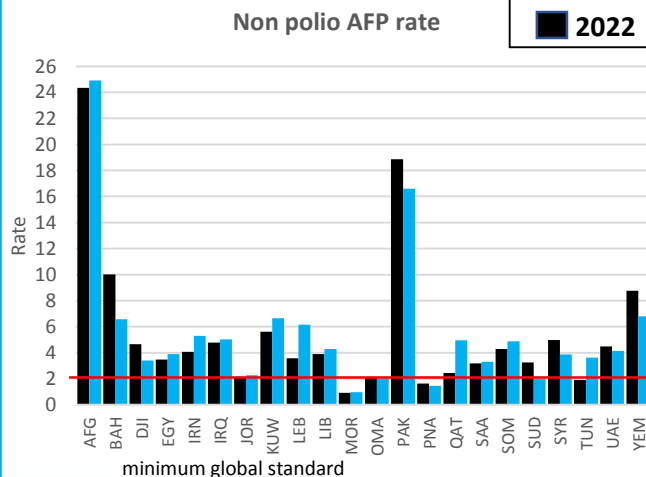
Wild Poliovirus

- No new WPV1 cases reported this week. The WPV1 cases count in 2023 till date is 6 (5 from Afghanistan and 1 from Pakistan) while in 2022, the WPV1 cases count remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- Three new WPV1 positive environmental samples reported this week from Afghanistan. Two are from Behsud and Batkot districts of Nangarhar province with the same collection date of 22nd June 2023, and the other is from Mazar-e-Sharif district of Balkh province with a date of collection of 21st June 2023. The positive WPV1 ES count in 2023 is 43 (32 in Afghanistan and 11 in Pakistan), while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

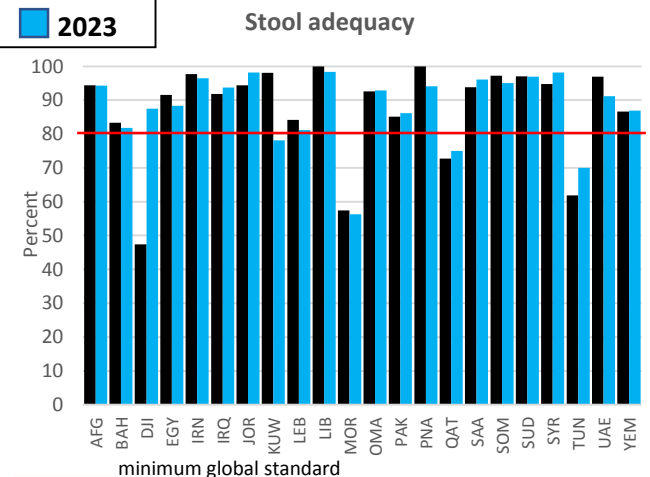
Circulating Vaccine derived poliovirus (cVDPV)

- No new cases reported this week. In 2023 the count of cVDPV2 cases remains 2 (both from Somalia) while the count in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
- No new positive environmental samples reported this week. In 2023 the positive cVDPV2 ES count to date is 3 (all from Somalia) and in 2022, the positive cVDPV2 ES count remains 50 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 25 in Yemen).

Non polio AFP rate



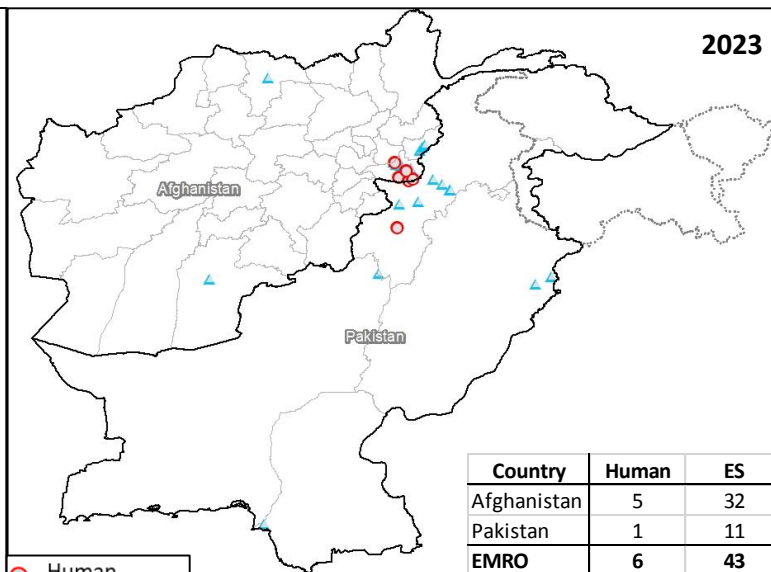
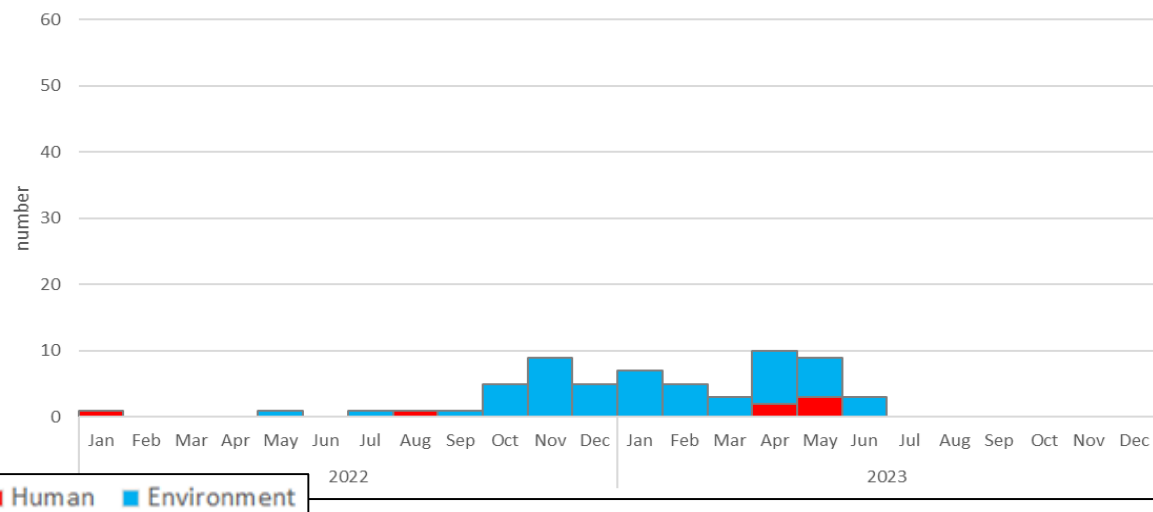
Stool adequacy



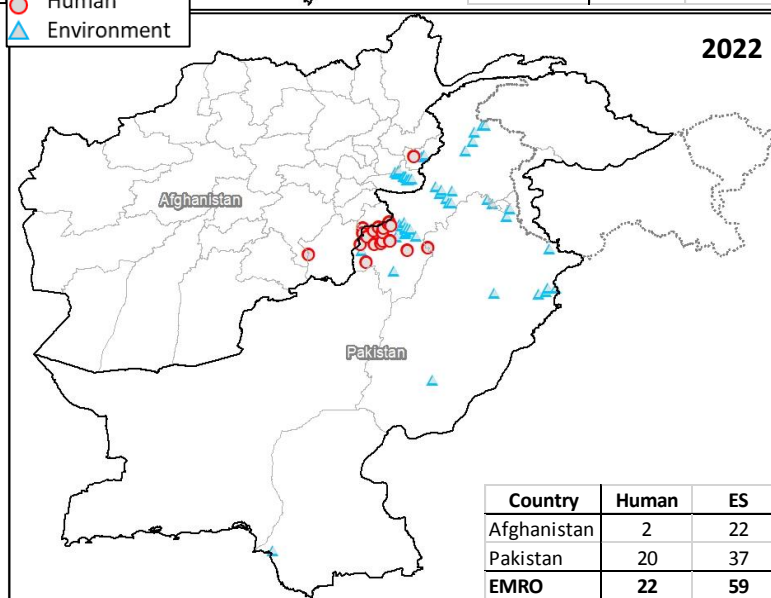
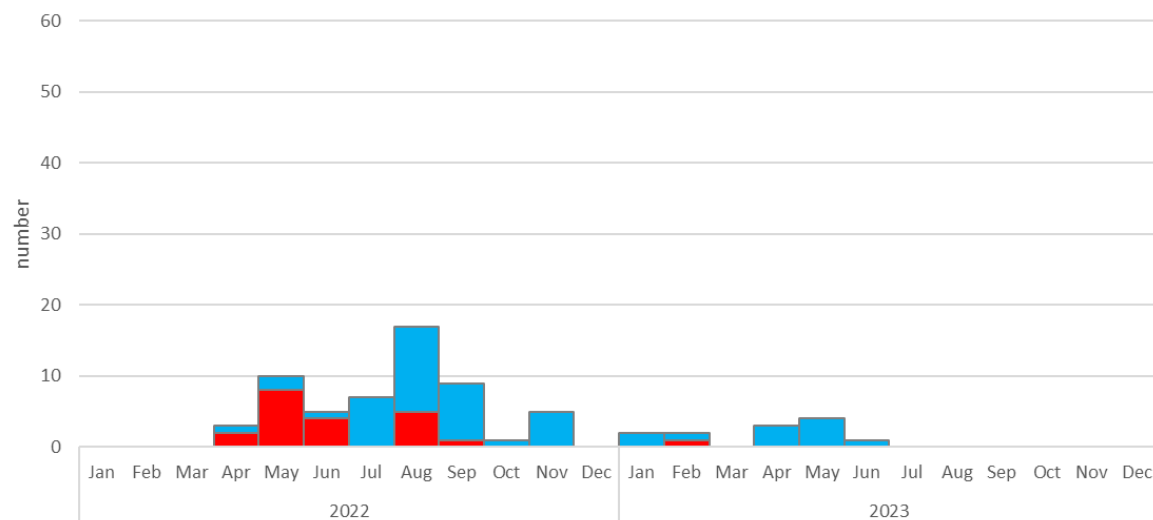
WPV1 Positive isolates from Afghanistan and Pakistan by source

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Afghanistan



Pakistan



Virus isolation by country, last 12 months (July 23, 2022, to July 23, 2023)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	6	7		5	1	24	43
Wild	6	7					13
cVDPV2				3	1	24	28
aVDPV2				2			2
Environment	52	37	1	6	1	13	110
Wild	52	37					89
cVDPV2			1	6	1	13	21
aVDPV2							
Total	58	44	1	11	2	37	153

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 Type-1 cases by month of onset

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Country	Total year 2021	Total year 2022	23-Jul		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022					2023							
			2022	2023	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	
Afghanistan	4	2	1	5	1	0	0	0	0		0	0	2	3			18-May-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						
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	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		
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	1	20	14	1	5	1	0	0		0	1	0	0	0			20-Feb-23
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	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						
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					
Yemen	0	0	0	0	0	0	0	0	0	0	0	0					
EMR	5	22	15	6	6	1	0	0	0	0	1	0	2	3			18-May-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	3138	5	0	2831	0	8	2	24.91	94.26	5368	2	0	5365	1	0	0	24.34	94.41	23-Jul-23
BAHRAIN	11	0	0	5	0	1	0	6.58	81.82	30	0	0	30	0	0	0	10.02	83.33	23-Jul-23
DJIBOUTI	8	0	0	5	0	0	0	3.40	87.50	19	0	0	19	0	0	0	4.65	47.37	23-Jul-23
EGYPT	897	0	0	740	0	11	0	3.89	88.29	1394	0	0	1394	0	0	0	3.48	91.54	20-Jul-23
IRAN	623	0	0	595	0	0	0	5.29	96.47	824	0	0	824	0	0	0	4.06	97.69	22-Jul-23
IRAQ	495	0	0	441	0	11	0	5.03	93.74	835	0	0	835	0	0	0	4.78	91.86	21-Jul-23
JORDAN	55	0	0	52	0	0	0	2.27	98.18	89	0	0	89	0	0	0	2.14	94.38	16-Jul-23
KUWAIT	32	0	0	31	0	0	0	6.65	78.13	52	0	0	52	0	0	0	5.62	98.08	23-Jul-23
LEBANON	53	0	0	27	0	4	0	6.14	81.13	57	0	0	57	0	0	0	3.58	84.21	23-Jul-23
LIBYA	62	0	0	37	0	1	0	4.28	98.39	101	0	0	101	0	0	0	3.89	100.00	23-Jul-23
MOROCCO	64	0	0	29	0	27	3	0.96	56.25	94	0	0	89	0	5	0	0.92	57.45	21-Jul-23
OMAN	14	0	0	14	0	0	0	1.99	92.86	27	0	0	27	0	0	0	2.10	92.59	9-Jul-23
PAKISTAN	9072	1	0	8161	0	118	0	16.60	86.12	19032	20	1	19011	0	0	0	18.86	85.14	23-Jul-23
PALESTINE	17	0	0	8	0	2	1	1.46	94.12	33	0	0	32	1	0	0	1.64	100.00	23-Jul-23
QATAR	12	0	0	3	0	4	0	4.94	75.00	11	0	0	11	0	0	0	2.44	72.73	23-Jul-23
SAUDI ARABIA	154	0	0	110	0	0	0	3.30	96.10	274	0	0	274	0	0	0	3.18	93.80	23-Jul-23
SOMALIA	244	0	0	217	2	0	0	4.87	95.08	356	0	0	349	6	0	0	4.28	97.19	23-Jul-23
SUDAN	229	0	0	154	0	30	25	1.98	96.94	650	0	0	649	1	0	0	3.25	97.08	10-Jul-23
SYRIA	167	0	0	154	0	0	0	3.86	98.20	382	0	0	382	0	0	0	4.96	94.76	22-Jul-23
TUNISIA	60	0	0	54	0	0	0	3.63	70.00	55	0	0	55	0	0	0	1.91	61.82	21-Jul-23
U.A.E.	34	0	0	20	0	7	0	4.13	91.18	66	0	0	66	0	0	0	4.47	96.97	18-Jul-23
YEMEN	605	0	0	392	0	23	2	6.79	86.94	1377	0	1	1214	162	0	0	8.76	86.64	22-Jul-23
EMR POL	16046	6	0	14080	2	247	33	9.85	88.91	31126	22	2	30925	171	5	0	10.77	88.17	

* 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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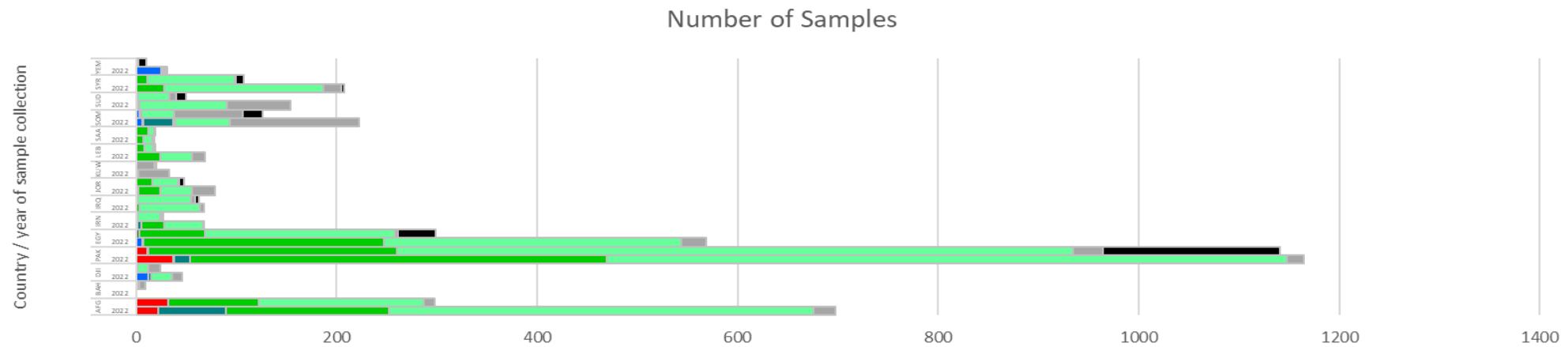
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results													Indicators					Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			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	3096	158	16	364	2324	151	1	4 *	108						129			2	2	1	11%	90%	100%	98%	23-Jul-23	
Bahrain	NPL Oman / CDC	8			1	7																6%	100%		25%	19-Jul-23	
Djibouti	NPL Kenya / CDC	8			1	4		3														20%	100%		100%	23-Jul-23	
Egypt	RRL Egypt	868	7		69	700	55	38		5						5						8%	97%	100%	99%	19-Jul-23	
Iran	NPL Iran / CDC	631	7		7	600	15	2		5						3						1%	100%	100%	99%	22-Jul-23	
Iraq	NPL Iraq, RRL Egypt	498	3		35	428	24	8		2						2						8%	100%	100%	99%	21-Jul-23	
Jordan	NPL Jordan, RRL Egypt	56			10	44	2															17%	92%		100%	23-Jul-23	
Kuwait	RRL Kuwait / RIVM	32			3	28		1														10%	100%		100%	23-Jul-23	
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	42				42																1%	100%			09-Jul-23	
Libya	RRL Tunisia / RIVM	56	1		1	47	7			1												2%	96%	1	100%	20-Jul-23	
Morocco	NPL Morocco, RRL Tunisia	58			2	56																4%	98%		91%	21-Jul-23	
Oman	NPL Oman / CDC	14			1	13																15%	100%		100%	19-Jul-23	
Pakistan	RRL Pakistan	8863	240	18	1019	7052	316	97	1	151						191						10%	88%	100%	96%	23-Jul-23	
Palestine & UNRWA		17	1			14	1	1		1			1									0%	36%		100%	23-Jul-23	
Qatar	NPL Oman / CDC	11	1			10										1						0%	100%	1	100%	19-Jul-23	
Saudi Arabia	NPL Saudi Arabia / CDC	127	1		4	113		9		1												3%	100%	100%	99%	19-Jun-23	
Somalia	NPL Kenya / CDC	244	6		39	175	9	16		3			2	2		2						18%	4%		96%	23-Jul-23	
Sudan	NPL Sudan / RRL Egypt	212	7		29	159		17					2			1						14%	99%	100%	54%	14-Apr-23	
Syria	NPL Syria / RRL Egypt	159	1	1	7	145		5														5%	100%			09-Jul-23	
Tunisia	RRL Tunisia	66	1		3	61	1									1						4%	95%	1	100%	20-Jul-23	
U.A.E	NPL Oman / CDC	34			2	32																6%	94%		21%	19-Jul-23	
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	456	12		72	315		57		6			1			9		1				15%	12%	100%	10%	22-Jul-23	
Total EMR 2023		15556	446	35	1669	12369	581	255	6 *	283			6	2		344		1	2	2	1	10%	87%	100%	94%		
Total EMR 2022		30461	1066	119	4831	24432		9	22 *	556	2		38	169 **		723		6	8	2	1	13%	93%	89%	92%		

* In 2023 – one WPV1 case is confirmed due to positive contact 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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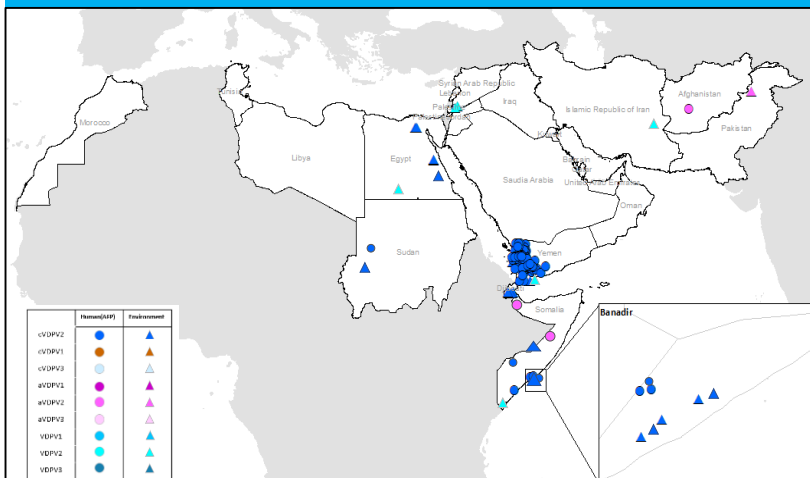


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
🇺🇸 Wild	22	32					37	11																						
🇧🇩 cVDPV2					12				6														6	3	1					25
🇧🇩 Wild+cVDPV2																														
🇺🇸 Wild+aVDPV2																														
🇺🇸 Wild+aVDPV3																														
🇺🇸 aVDPV1																														
🇺🇸 aVDPV2							1		1																					
🇺🇸 aVDPV3																														
🇧🇩 VDPV1																														
🇧🇩 VDPV2											1				2								1							2
🇧🇩 VDPV3								1																						
🇧🇩 VDPV2-n										3																				
🇧🇩 SL2	68				3		16				4												30	2						1
🇧🇩 SL1/3	162	90		1		1	415	248	240	66	23	1	3	1	22	16			24	8	7	12	2		2	1	28	11	2	2
🇧🇩 Entero	424	165		2	21	11	679	675	297	189	39	23	61	54	32	26	2		32	9	9	6	55	33	88	32	159	87	1	
🇧🇩 Negative	22	11		6	10	12	17	29	25	3	1	1	4	4	23	1	31	18	13	1	2	1	128	68	63	7	18	1		
🇧🇩 Pending								177		38		2		4		5		2		1				20		10	3	8		8

VDPVs isolations by Source and Country

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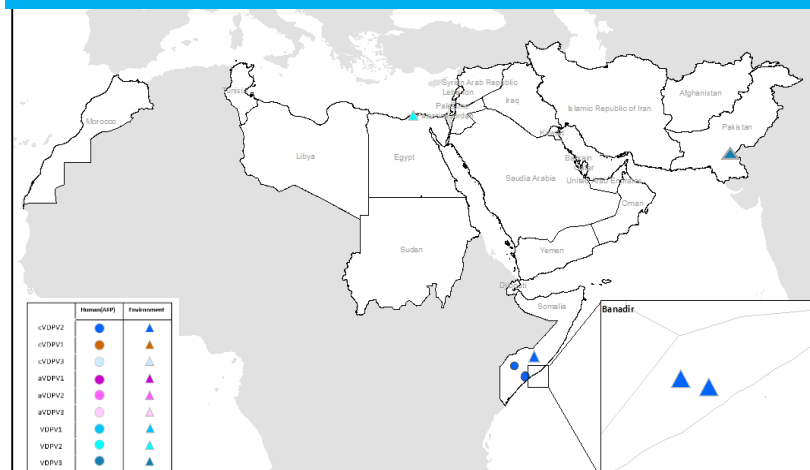
VDPV Isolates, EMR countries, 2022



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			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	2	02-03-23	3	1	11		5		31-08-22	19	5	26	1	6	3	25-05-23		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	14-12-22				23	40		19-12-22			13	25			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	67	1		12-01-22							
	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	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						1	27-02-23																					
	Iran																		1			04-02-22							
	Jordan																		2			25-05-22							
	Somalia					1		01-09-22												1		22-04-23							
	Yemen																			3		24-04-22							
VDPV3	Pakistan																			1		14-02-23							

VDPV Isolates, EMR countries, 2023



Important links

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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)