

Highlights



Children Paralyzed by polio

2023

- 12 cases of Wild Polio 1
 - 06 in Afghanistan
 - 06 in Pakistan

2024

- 35 cases of Wild Polio 1
 - 18 in Afghanistan
 - 17 in Pakistan

16 cases of cVDPV2

- 08 in Somalia
- 08 in Yemen

37 cases of cVDPV2

- 03 in Somalia
- 33 in Yemen
- 01 in Occupied Palestinian Territory

Zero cVDPV1 cases

Zero cVDPV1 cases

2023

- 188 samples Wild Polio 1
- 62 in Afghanistan
 - 126 in Pakistan

2024

- 371 samples Wild Polio 1
- 66 in Afghanistan
 - 305 in Pakistan

41 samples cVDPV2

- 11 in Egypt
- 16 in Yemen
- 09 in Somalia
- 05 in Sudan

19 sample cVDPV2

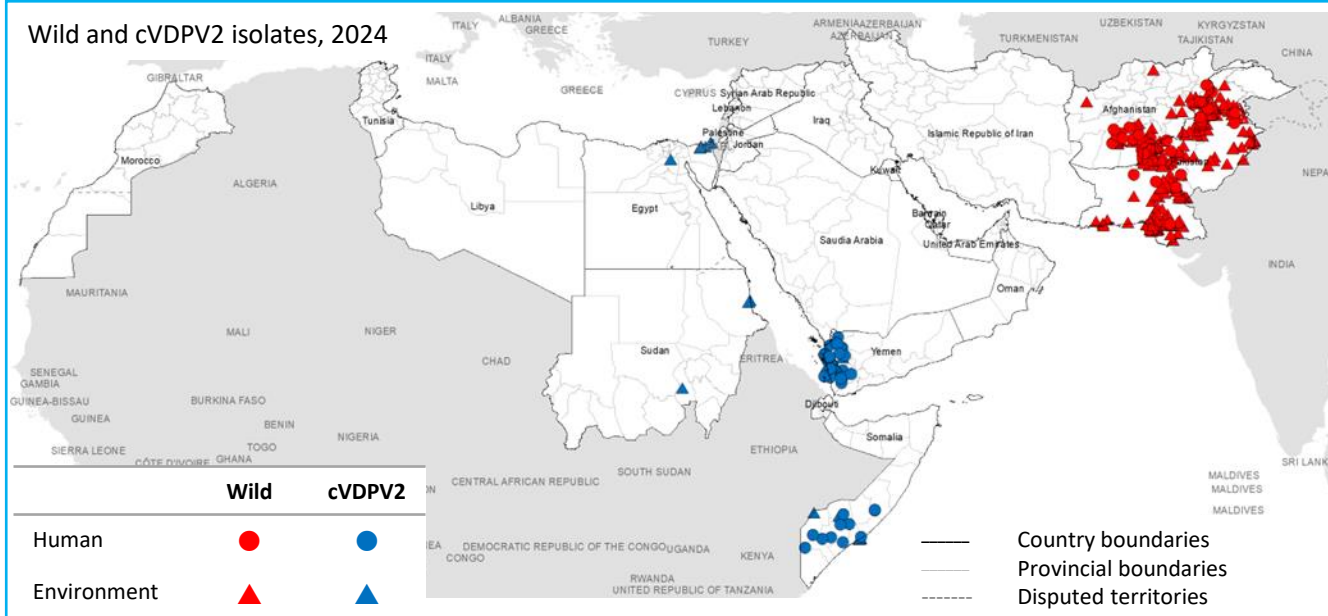
- 2 in Egypt
- 3 in Somalia
- 2 in Sudan
- 6 in Yemen
- 6 in Occupied Palestinian Territory



Sewage water sampling

Classification of EMR countries by type of poliovirus circulation

Wild and cVDPV2 isolates, 2024



Highlights of the week

Wild Poliovirus

- One new WPV1 case reported this week from Pakistan. The WPV1 case is from Islamabad province (ICT district), with date of onset on 17th August 2024. The WPV1 case count in 2024 to date is 35 (18 from Afghanistan and 17 from Pakistan). In 2023, the count remains 12 (6 each from Afghanistan and Pakistan).
- Fifteen new WPV1 positive environmental samples (ES) from Pakistan reported this week. The new ES are: 8 from Sindh province (7 from Karachi Towns – 2 from KhiSouth, and 1 each from KhiKeamari, KhiMalir, KhiOrgangi, KhiWest and KhiEast, and 1 from Kambar district), 4 from Khyber Pakhtunkhwa province (1 each from Wazir South, Abbottabad, Peshawar, and Tank districts), 1 each from Punjab province (Attock district), Balochistan province (Dukki district) and Islamabad province (ICT district), with samples' collection dates between 13th – 19th August 2024. ES count to date in 2024 is 371 (66 from Afghanistan and 305 from Pakistan). In 2023, the count remains 188 (62 from Afghanistan and 126 from Pakistan).

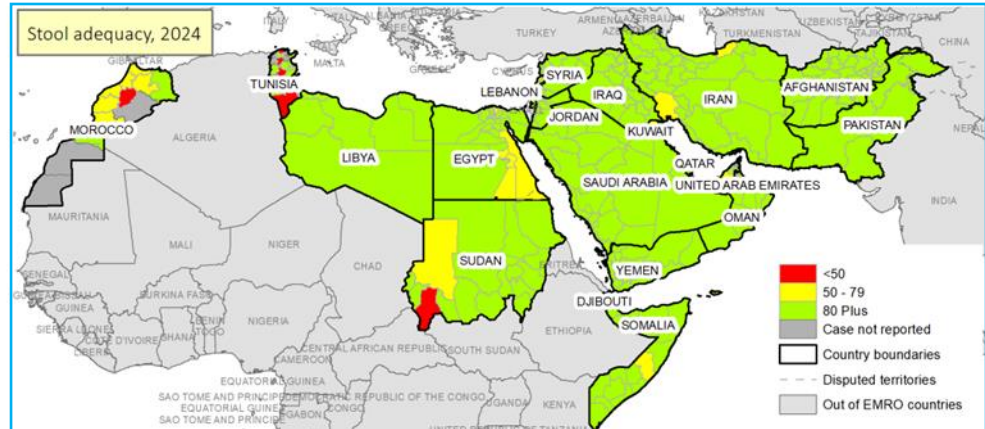
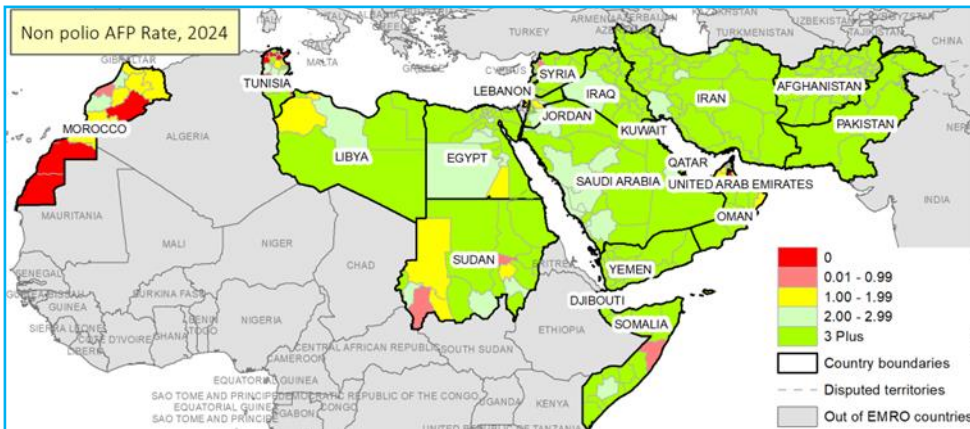
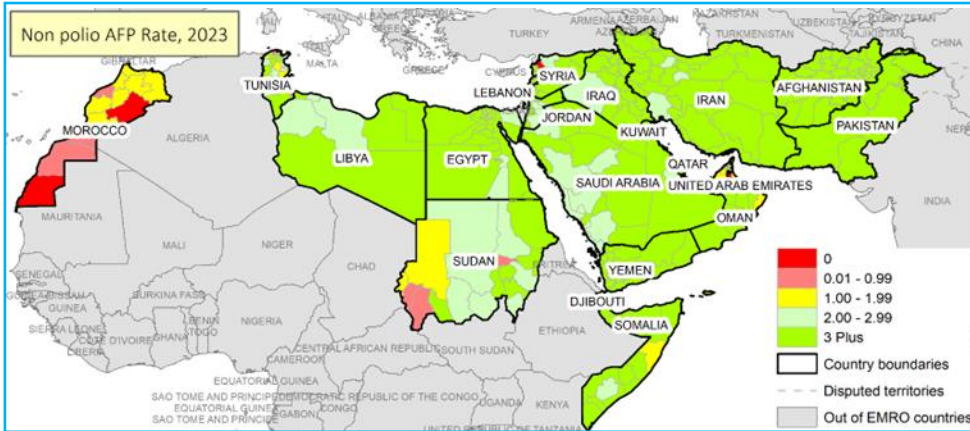
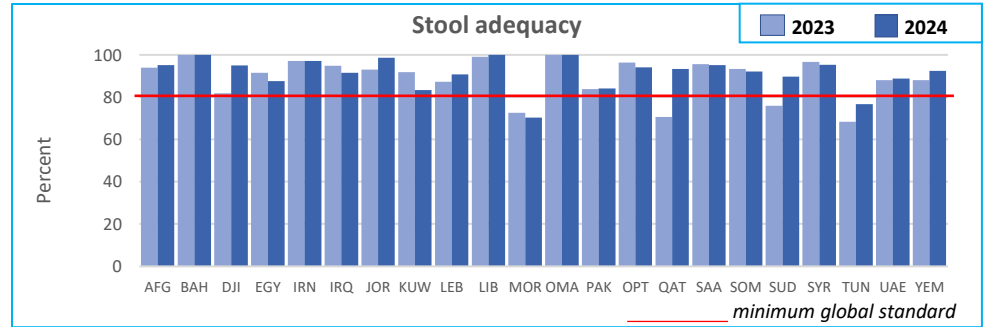
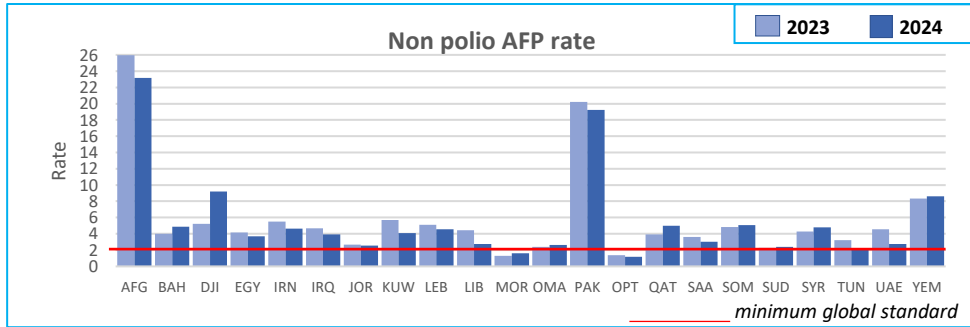
Vaccine derived poliovirus (VDPV)

- No new VDPV isolates reported this week. The cVDPV2 case count in 2024 is 37 (33 from Yemen, 3 from Somalia, and 1 from Occupied Palestinian Territory). In 2023, the count remains 16 (8 each from Somalia and Yemen), while the count of cVDPV2 ES positives in 2024 to date is 19 (6 each from Yemen and Occupied Palestinian Territory, 3 from Somalia, and 2 each from Sudan and Egypt). In 2023, the count remains 41 (16 from Yemen, 11 from Egypt, 9 from Somalia, and 5 from Sudan).

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World Health Organization – Regional Office for Eastern Mediterranean Issue No. 1353, Week 36 (ending on 08/09/2024)

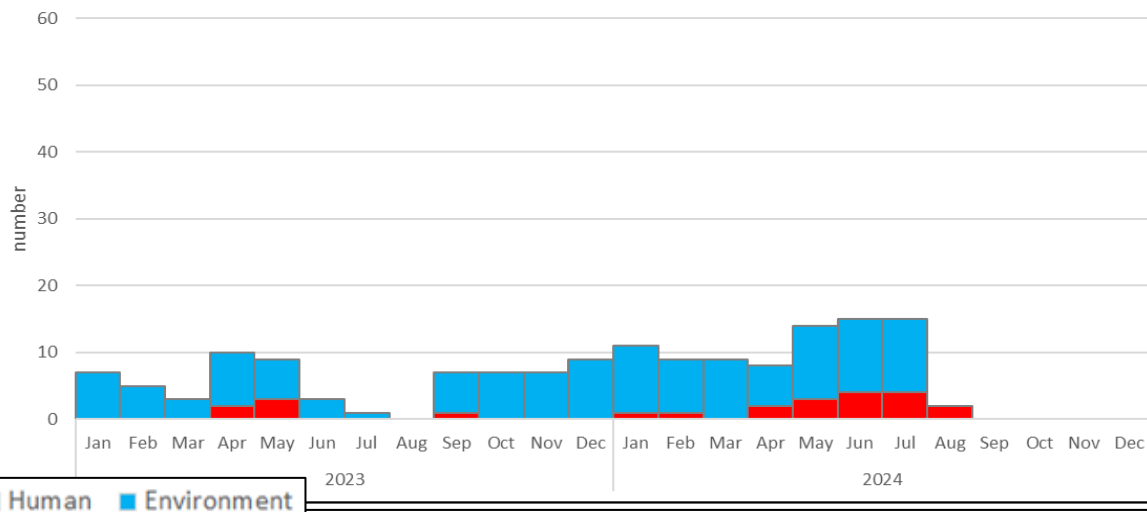
Key surveillance indicators



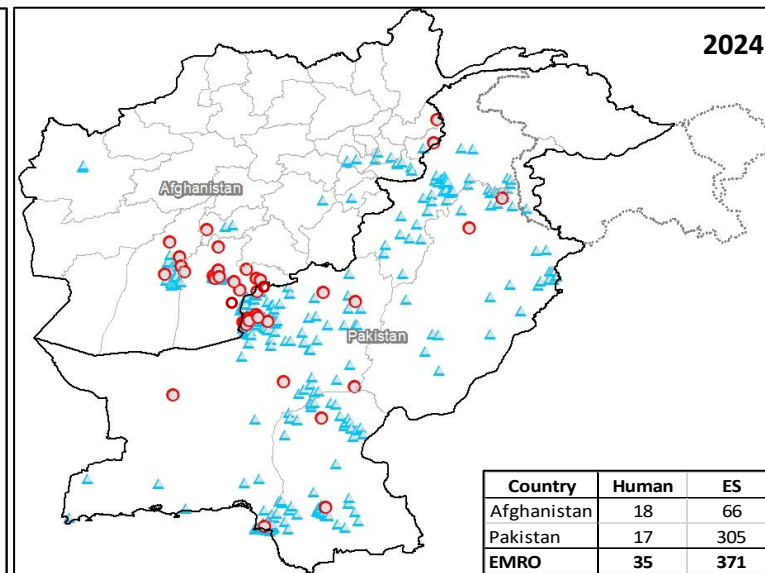
WPV1 Positive isolates from Afghanistan and Pakistan by source

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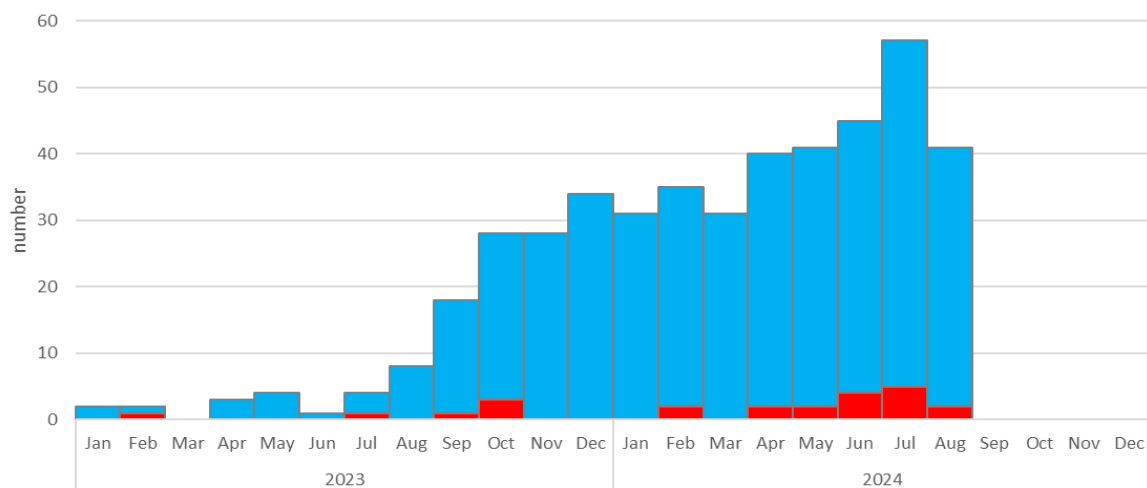
Afghanistan



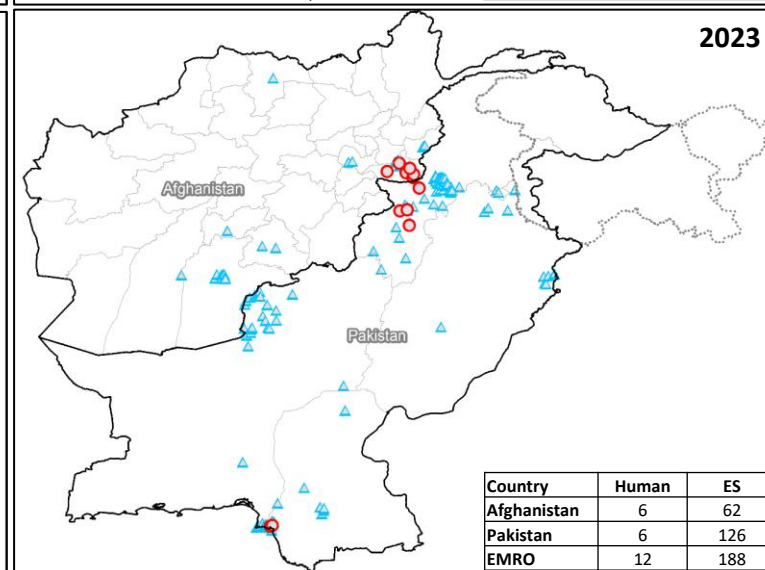
2024



Pakistan



2023



Virus isolation by country, last 12 months (8 September 2023, to 8 September 2024)

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Source / Virus type	AFG	PAK	EGY	OPT	SOM	SUD	YEM	Total
Human (AFP only)	18	21	0	1	7	1	38	86
Wild	18	21						39
cVDPV2				1	7		38	46
VDPV2						1		1
Environment	95	403	8	6	6	7	14	539
Wild	95	402						497
cVDPV2			8	6	6	7	13	40
cVDPV2+VDPV1							1	1
WILD+VDPV1		1						1
Total	113	424	8	7	13	8	52	625

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 2022	Total year 2023	08 Sep		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
			2023	2024	2023			2024									
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Afghanistan	2	6	6	18	0	0	0	1	1	0	2	3	4	4	3		05-Aug-24
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	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	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	0				
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	20	6	2	17	3	0	0	0	2	0	2	2	4	5	2		17-Aug-24
Occupied Palestinian Territory ****	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			
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							
Syria ****	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			
Yemen	0	0	0	0	0	0	0	0		0	0						
EMR	22	12	8	35	3	0	0	1	3	0	4	5	8	9	5	0	17-Aug-24

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

Investigation of AFP cases with paralysis onset in 2023 & 2024

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COUNTRY	2024									2023									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	3692	18	0	3394	0	7	1	23.16	95.18	5856	6	0	5850	0	0	0	25.98	93.97	8-Sep-24
BAHRAIN	10	0	0	3	0	0	0	4.86	100.00	12	0	0	12	0	0	0	4.01	100.00	8-Sep-24
DJIBOUTI	20	0	0	20	0	0	0	9.19	95.00	22	0	0	22	0	0	0	5.23	81.82	5-Sep-24
EGYPT	1074	0	0	938	0	28	0	3.70	87.62	1714	0	0	1714	0	0	0	4.16	91.48	5-Sep-24
IRAN	675	0	0	660	0	0	0	4.64	97.19	1150	0	0	1150	0	0	0	5.48	97.13	7-Sep-24
IRAQ	485	0	0	434	0	30	0	3.92	91.55	820	0	0	820	1	0	0	4.66	94.88	7-Sep-24
JORDAN	79	0	0	42	0	0	0	2.55	98.73	116	0	0	116	0	0	0	2.68	93.10	5-Sep-24
KUWAIT	24	0	0	24	0	0	0	4.09	83.33	49	0	0	49	0	0	0	5.69	91.84	8-Sep-24
LEBANON	54	0	0	38	0	2	0	4.56	90.74	79	0	0	79	0	0	0	5.11	87.34	1-Sep-24
LIBYA	49	0	0	35	0	1	1	2.74	100.00	115	0	0	115	0	0	0	4.43	99.13	7-Sep-24
MOROCCO	118	0	0	50	0	43	0	1.58	70.34	150	0	0	150	0	0	0	1.28	72.67	28-Aug-24
OMAN	23	0	0	21	0	0	0	2.63	100.00	30	0	0	30	0	0	0	2.38	100.00	5-Sep-24
PAKISTAN	12996	17	0	11732	0	162	0	19.23	84.06	19771	6	0	19765	0	0	0	20.22	83.78	8-Sep-24
OCCUPIED PALESTINIAN TERRITORY	17	0	0	9	1	0	0	1.16	94.12	28	0	0	28	0	0	0	1.35	96.43	5-Sep-24
QATAR	15	0	0	2	0	13	0	4.99	93.33	17	0	0	17	0	0	0	3.91	70.59	25-Aug-24
SAUDI ARABIA	164	0	0	120	0	0	0	3.02	95.12	301	0	0	301	0	0	0	3.60	95.68	8-Sep-24
SOMALIA	321	0	0	305	3	0	0	5.06	92.21	433	0	0	425	8	0	0	4.84	93.30	8-Sep-24
SUDAN	341	0	0	234	1	14	14	2.37	89.74	473	0	0	473	0	0	0	2.28	75.90	8-Sep-24
SYRIA	256	0	0	229	0	0	0	4.77	95.31	332	0	0	332	0	0	0	4.27	96.69	7-Sep-24
TUNISIA	43	0	0	35	0	0	0	2.02	76.74	95	0	0	95	0	0	0	3.20	68.42	8-Sep-24
U.A.E.	27	0	0	24	0	1	1	2.74	88.89	67	0	0	67	0	0	0	4.54	88.06	2-Sep-24
YEMEN	965	0	1	509	33	91	69	8.60	92.44	1331	0	0	1322	9	0	0	8.33	88.05	6-Sep-24
EMR POL	21448	35	1	18858	38	392	86	10.60	87.62	32961	12	0	32932	18	0	0	11.31	87.20	

* 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 2024

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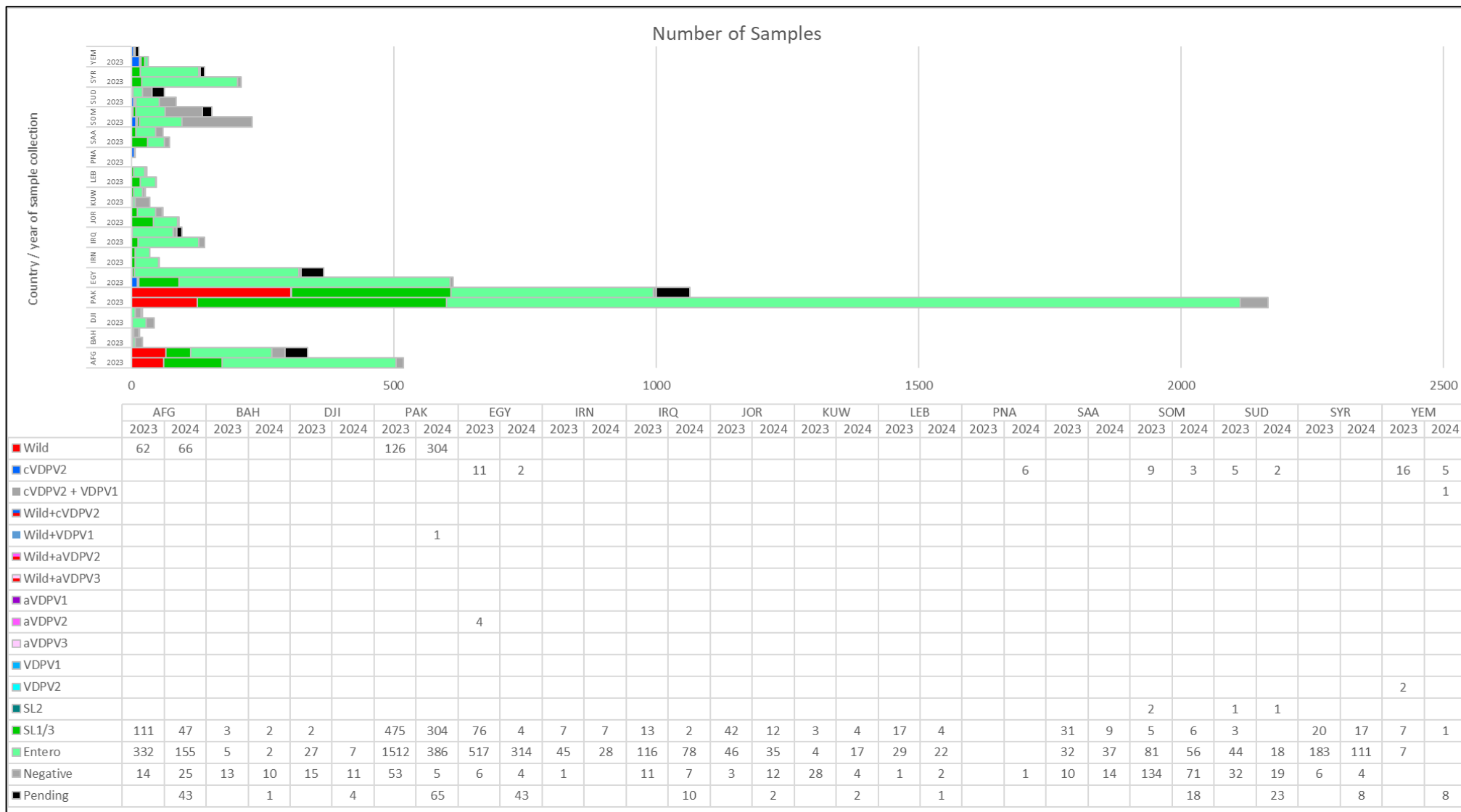
Country	Polio laboratories		Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results										Indicators				Latest report Date			
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant pending sequence	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		L208+	L208+ / NPEV			received within last 14 days	received more than 14 days ago	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV									
Afghanistan	RRL Pakistan		222	20	476	2719	127	38	14*	143					158							11%	91%	100%	86%	8-Sep-24
Bahrain	NPL Oman / CDC		10		1	8				1					1							10%	100%	1	100%	5-Sep-24
Djibouti	NPL Kenya / CDC		20			20																0%	25%		90%	5-Sep-24
Egypt	RRL Egypt		1019	11	91	880	36	1		4					8							8%	100%	100%	99%	5-Sep-24
Iran	NPL Iran / CDC		697	8	10	662	16	1		2					8							1%	100%	100%	99%	7-Sep-24
Iraq	NPL Iraq, RRL Egypt		488	15	65	394	10	4		4					12					1		13%	100%	100%	97%	6-Sep-24
Jordan	NPL Jordan, RRL Egypt		79	4	13	55	7												4			15%	88%	0.5	99%	8-Sep-24
Kuwait	RRL Kuwait / RIVM		26	1	1	23	1													1		2%	92%		100%	5-Sep-24
Lebanon	NPL Syria, RRL Egypt		50		1	41	8															3%	100%			29-Aug-24
Libya	RRL Tunisia / RIVM		43			39		4														0%	100%		44%	30-Aug-24
Morocco	NPL Morocco, RRL Tunisia		116		2	109		5														2%	98%		96%	6-Sep-24
Oman	NPL Oman / CDC		23			21	2															2%	76%		100%	5-Sep-24
Pakistan	RRL Pakistan		12709	481	26	1717	9815	485	130	12*	286				348							11%	92%	100%	96%	8-Sep-24
Occupied Palestinian Territory & UNRWA			20	1	1	13		4						1				1	1			13%	50%	1	100%	5-Sep-24
Qatar	NPL Oman / CDC		15	1		14									1							0%	100%	1	100%	29-Aug-24
Saudi Arabia	NPL Saudi Arabia / CDC		149	3	7	137		2		1					1				1			4%	90%	67%	99%	21-Aug-24
Somalia	NPL Kenya / CDC		321	12	43	253	3	10		5			3	3								14%	2%		90%	8-Sep-24
Sudan	NPL Sudan / RRL Egypt		233	7	45	181				2		1	1	1				2				16%	100%	100%	21%	14-Apr-23
Syria	NPL Syria / RRL Egypt		250	5	12	212	10	11														5%	100%			29-Aug-24
Tunisia	RRL Tunisia		45		2	40	1	2														3%	98%		100%	30-Aug-24
U.A.E	NPL Oman / CDC		23		1	22																4%	26%		13%	5-Sep-24
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt		545	41	1	99	404		1	5		2	32**	6								17%	14%	98%	13%	6-Sep-24
Total EMR 2024			20548	813	48	2587	16062	706	213	35*	453		3	38**	547		3	6	2	10%	89%	100%	91%			
Total EMR 2023			32172	1012	81	4533	26509		30	12*	656		8	22	766		4	3	1	12%	90%	100%	92%			

* In 2024 – Nine WPV1 cases are confirmed due to positive contact (Index cases were negative for WPV1)
 In 2023 - Two WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

** In 2024 – One cVDPV2 case was confirmed due to two positive contacts (Index case was negative for cVDPV2)

Environmental Surveillance Isolation by Classification

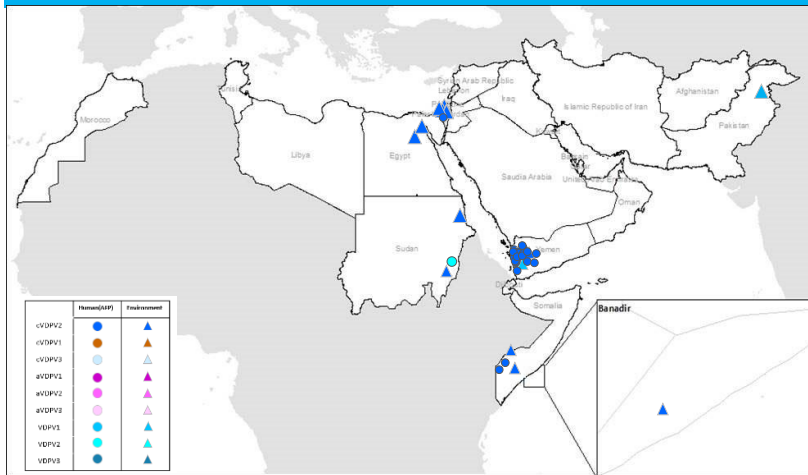
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VDPVs isolations by Source and Country

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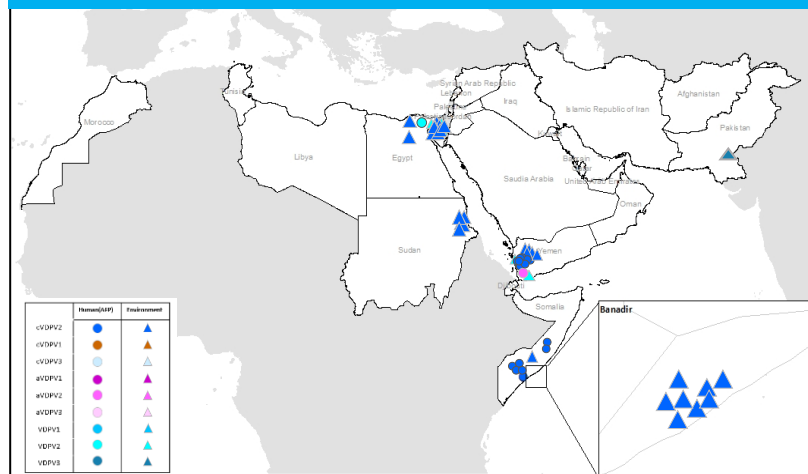
VDPV Isolates, EMR countries, 2024



VDPVs isolated from 2019-2024

Isolate type	EMR Country	Sources																										
		AFP cases(Human)						Contacts(Human)						Environment						Other Sources (Healthy Children)								
		2019	2020	2021	2022	2023	2024	Most recent	2019	2020	2021	2022	2023	2024	Most recent	2019	2020	2021	2022	2023	2024	Most recent	2019	2020	2021	2022	2023	Most recent
cVDPV2	Afghanistan	307	43					09-07-21																				
	Djibouti																											
	Egypt																											
	Iran																											
	Pakistan	22	135	8				23-04-21																				
	OPT						1	25-07-24																				
	Somalia	3	14	1	5	8	3	05-06-24	1	11		6	3	3	12-03-24	5	26	1	6	9	3	14-05-24	1	5		1		10-03-22
	Sudan	58			1			31-10-22		18					08-10-20	14		1	5	2	24-01-24		4					24-08-20
Yemen			66	162	8	33	19-05-24		23	40	1	2	09-03-24		13	26	16	6	23-03-24									
cVDPV1	Yemen	1	31	3				27-03-21	2					10-07-19														
cVDPV3	Somalia							07-09-18						30-06-18														
aVDPV1	Afghanistan						1	22-02-21																				
	Egypt														1												16-07-20	
	Pakistan															1											10-02-21	
	Somalia						1	26-01-20																				
	Yemen							20-07-21																				
aVDPV2	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			1			22-08-22	1												03-02-19	
	Yemen				3	1			05-09-23		1			09-12-21														
aVDPV3	Afghanistan	1						23-06-20																				
	Egypt													2													30-09-20	
	Pakistan														1												05-04-21	
VDPV1	Libya	1						15-01-20																				
	Egypt													1													11-07-21	
	Pakistan																							1			14-02-24	
VDPV2	Yemen																										20-03-24	
	Egypt						1	17-07-23																				
	Iran																							1			04-02-22	
	Jordan																							2			25-05-22	
	Somalia						1	01-09-22																1			22-04-22	
	Sudan						1	24-05-24																	1		24-01-24	
VDPV3	Yemen																							3	2		27-05-23	
	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)