

Highlights



Children Paralyzed by polio

2023

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

- 16 cases of cVDPV2
 - 08 in Somalia
 - 08 in Yemen

- Zero cVDPV1 cases

2024

- 3 cases of Wild Polio 1
 - 01 in Afghanistan
 - 02 in Pakistan

- 2 cases of cVDPV2
 - 01 in Somalia
 - 01 in Yemen

- Zero cVDPV1 cases



Sewage water sampling

2023

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

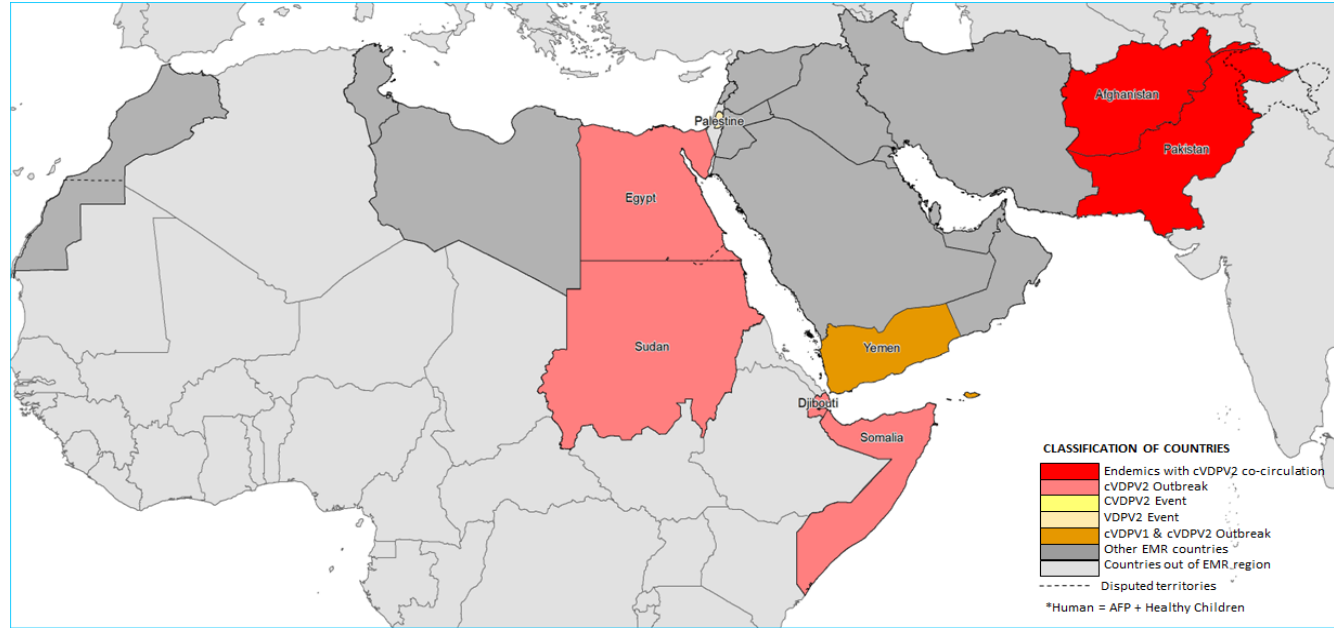
- 35 samples cVDPV2
 - 11 in Egypt
 - 10 in Yemen
 - 09 in Somalia
 - 05 in Sudan

2024

- 93 samples Wild Polio 1
 - 10 in Afghanistan
 - 83 in Pakistan

- 2 sample cVDPV2
 - 1 in Sudan
 - 1 in Egypt

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

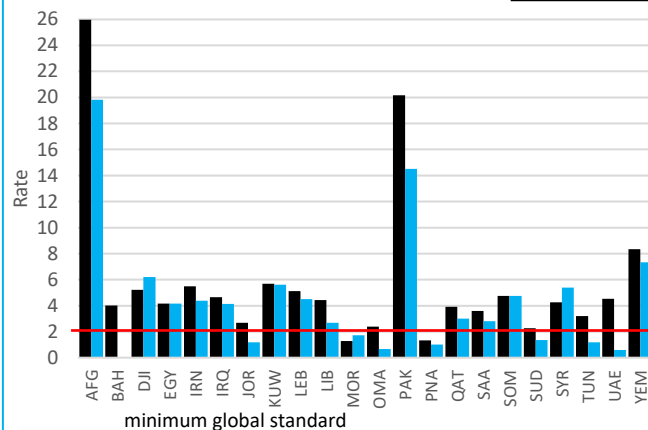
Wild Poliovirus

- One new WPV1 case reported from Afghanistan this week. The new WPV1 case is from Dangam district, Kunar province, with date of onset 8th January 2024. The WPV1 case count in 2024 to date is 3 (1 from Afghanistan and 2 from Pakistan), while for 2023, the count remains to be 12 (6 each from Afghanistan and Pakistan).
- Twelve new WPV1 positive environmental samples (ES) from Pakistan in 2024 reported this week as follows: 8 from Sindh province (6 from Karachi towns, and 1 each from Sukkur and Badin districts), 2 from Balochistan province (both from Chaman district), and one each from Punjab province (Lahore district and Khyber Pakhtunkhwa province (Peshawar district). The sample collection dates vary between 4th to 13th March 2024.
- The count of the WPV1 positive environmental samples in 2024 to date is 93 (10 from Afghanistan and 83 from Pakistan) and in 2023 the count remains to be 188 (62 in Afghanistan and 126 in Pakistan).

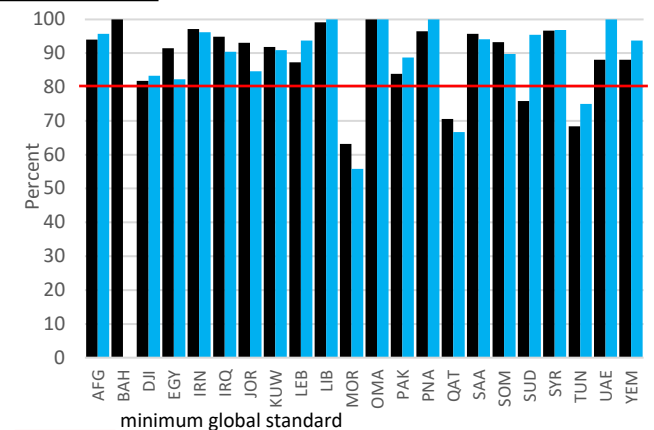
Vaccine derived poliovirus (VDPV)

- No new cVDPV2 isolates reported this week. The total count of cVDPV2 cases to date in 2024 is 2 (1 each from Somalia and Yemen) and in 2023 the count is 16 (8 each from Somalia and Yemen), while the positive environmental samples total count in 2024 is 2 (one each from Egypt and Sudan) and in 2023 the count remains 35 (11 from Egypt, 10 from Yemen, 9 from Somalia, and 5 from Sudan).

Non polio AFP rate



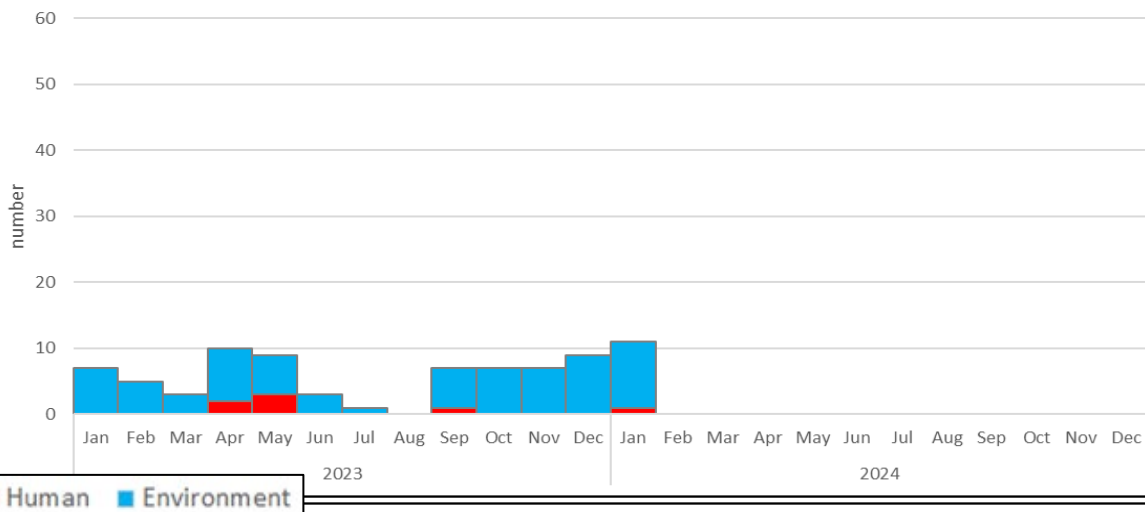
Stool adequacy



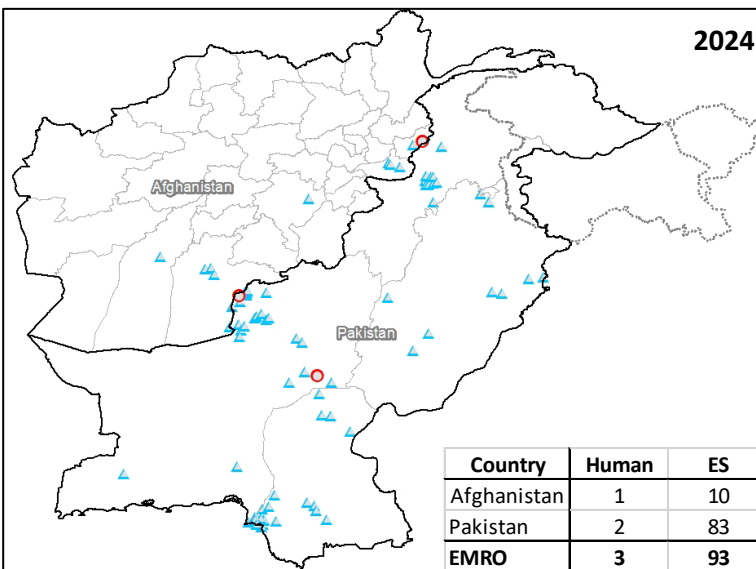
WPV1 Positive isolates from Afghanistan and Pakistan by source

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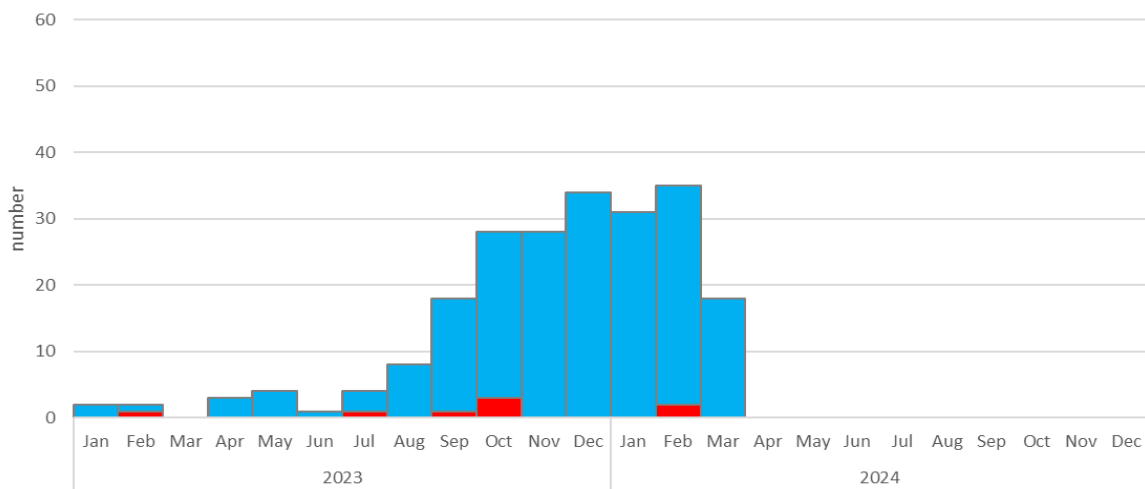
Afghanistan



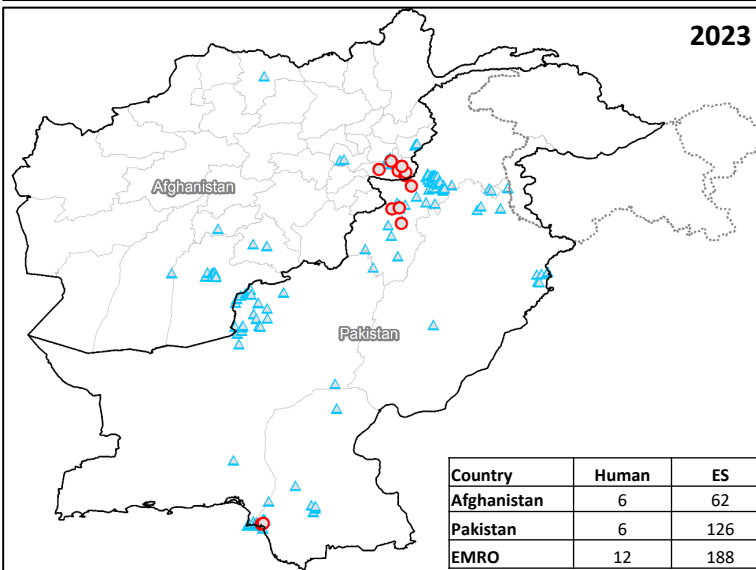
2024



Pakistan



2023



Virus isolation by country, last 12 months (31 Mar. 2023, to 31 Mar. 2024)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	7	7	1	7		10	32
Wild	7	7					14
cVDPV2				7		9	16
aVDPV2						1	1
VDPV2			1				1
Environment	57	206	13	9	7	10	302
Wild	57	205					262
cVDPV2			12	9	6	8	35
aVDPV2			1				1
VDPV2					1	2	3
Wild+VDPV1		1					1
Total	64	213	14	16	7	20	334

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	31 March		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
			2023	2024	2023									2024			
					Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Afghanistan	2	6	0	1	2	3	0	0	0	0	1	0	0	0	1		08-Jan-24
Bahrain	0	0	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	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	0		
Lebanon ****	0	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				
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	20	6	1	2	0	0	0	1	0	1	3	0	0	0	2		29-Feb-24
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	0				
Syria ****	0	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	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	1	3	2	3	0	1	0	2	3	0	0	1	2	0	29-Feb-23

**** 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	1204	1	0	341	0	0	0	21.45	96.26	5854	6	0	5846	0	2	0	25.97	94.02	31-Mar-24
BAHRAIN	0	0	0	0	0	0	0	0.00		12	0	0	12	0	0	0	4.01	100.00	31-Mar-24
DJIBOUTI	6	0	0	3	0	0	0	7.63	83.33	22	0	0	22	0	0	0	5.23	81.82	30-Mar-24
EGYPT	452	0	0	302	0	0	0	4.29	86.73	1714	0	0	1706	1	8	0	4.16	91.48	28-Mar-24
IRAN	231	0	0	191	0	0	0	4.40	96.10	1150	0	0	1150	0	0	0	5.48	97.13	30-Mar-24
IRAQ	178	0	0	132	0	0	0	4.07	91.01	820	0	0	820	0	0	0	4.66	94.88	28-Mar-24
JORDAN	13	0	0	9	0	0	0	1.09	84.62	116	0	0	116	0	0	0	2.68	93.10	28-Mar-24
KUWAIT	13	0	0	10	0	0	0	5.66	84.62	49	0	0	49	0	0	0	5.69	91.84	31-Mar-24
LEBANON	19	0	0	12	0	0	0	4.94	89.47	79	0	0	79	0	0	0	5.11	87.34	30-Mar-24
LIBYA	16	0	0	2	0	0	0	2.48	100.00	115	0	0	115	0	0	0	4.43	99.13	23-Mar-24
MOROCCO	49	0	0	0	0	0	0	1.83	61.22	152	0	0	72	0	80	0	1.29	71.71	29-Mar-24
OMAN	2	0	0	2	0	0	0	0.63	100.00	30	0	0	30	0	0	0	2.38	100.00	28-Mar-24
PAKISTAN	3702	2	0	2835	0	0	0	15.15	88.52	19741	6	0	19648	0	87	0	20.18	83.90	31-Mar-24
PALESTINE	5	0	0	0	0	0	0	0.94	100.00	28	0	0	26	0	2	1	1.35	96.43	17-Mar-24
QATAR	4	0	0	0	0	0	0	3.69	75.00	17	0	0	17	0	0	0	3.91	70.59	31-Mar-24
SAUDI ARABIA	53	0	0	14	0	0	0	2.70	94.34	301	0	0	301	0	0	0	3.60	95.68	31-Mar-24
SOMALIA	118	0	0	76	1	0	0	5.15	91.53	433	0	0	425	8	0	0	4.81	93.30	31-Mar-24
SUDAN	75	0	0	0	0	0	0	3.32	88.00	473	0	0	445	0	28	1	2.28	75.90	31-Mar-24
SYRIA	103	0	0	78	0	0	0	5.32	97.09	332	0	0	332	0	0	0	4.27	96.69	30-Mar-24
TUNISIA	8	0	0	2	0	0	0	1.09	75.00	95	0	0	95	0	0	0	3.20	68.42	17-Mar-24
U.A.E.	2	0	0	0	0	0	0	0.54	100.00	67	0	0	67	0	0	0	4.54	88.06	27-Mar-24
YEMEN	269	0	0	97	1	0	0	6.77	93.68	1331	0	0	1262	9	60	49	8.33	88.05	24-Mar-24
EMR POL	6522	3	0	4106	2	0	0	9.32	90.40	32931	12	0	32635	18	267	51	11.29	87.28	

* 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 2024

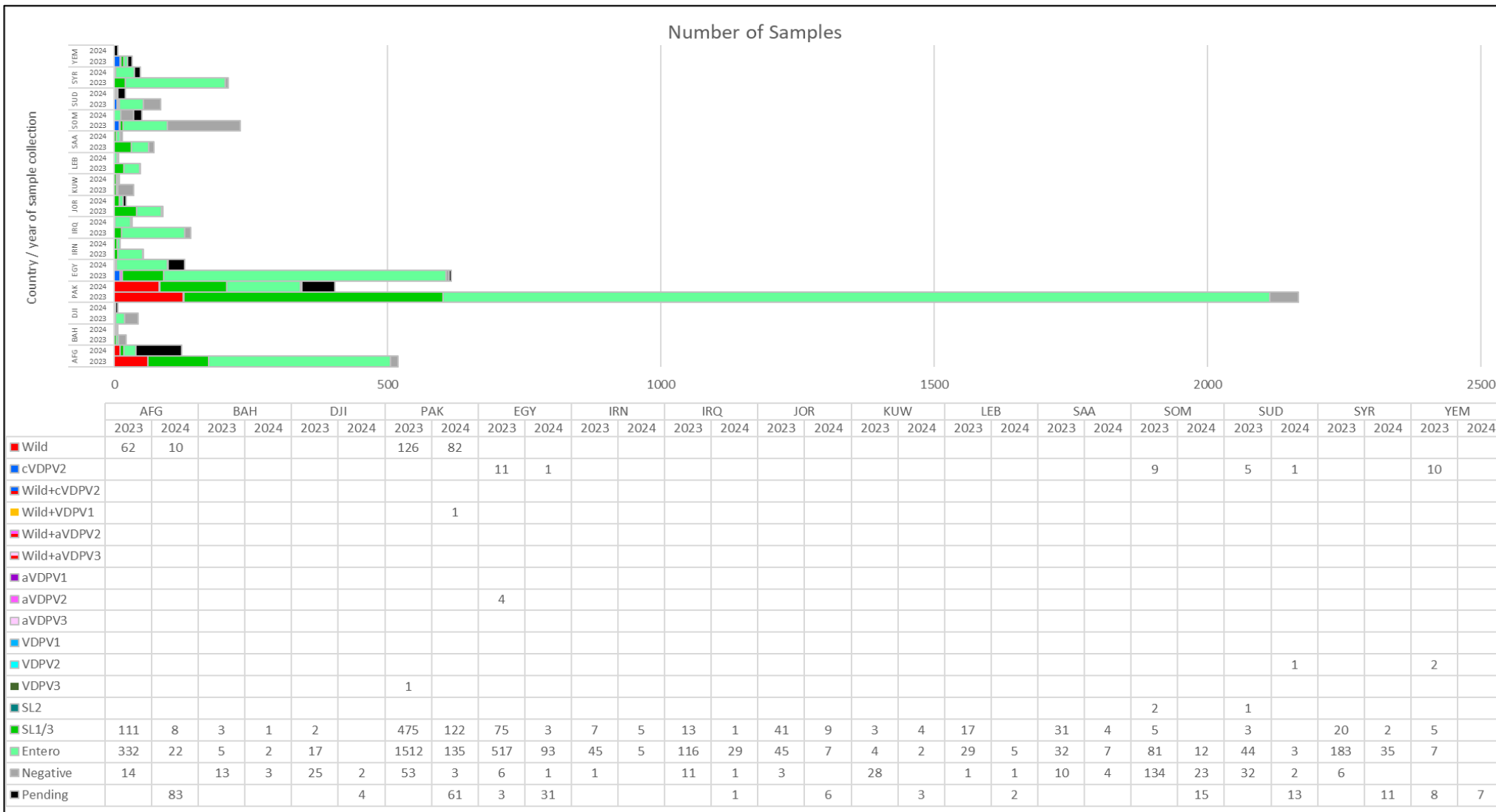
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Country	Polio laboratories		Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results										Indicators				Latest report Date				
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		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		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		1196	19	3	37	282	782	50	1	12						15					8%	100%	100%	89%	31-Mar-24	
Bahrain	NPL Oman / CDC																									28-Mar-24	
Djibouti	NPL Kenya / CDC		6				3	1	2													0%	33%		100%	30-Mar-24	
Egypt	RRL Egypt		423	4		14	341	62	2	1							2					4%	97%	100%	100%	28-Mar-24	
Iran	NPL Iran / CDC		250	2		3	226	19		1												1%	100%	100%	100%	30-Mar-24	
Iraq	NPL Iraq, RRL Egypt		183	7		22	133	19	2	2							5					14%	100%	100%	99%	29-Mar-24	
Jordan	NPL Jordan, RRL Egypt		13				10	3														0%	70%		90%	25-Mar-24	
Kuwait	RRL Kuwait / RIVM		11	1		1	8		1											1		6%	80%		100%	21-Mar-24	
Lebanon	NPL Syria, RRL Egypt		13				13															0%	100%			28-Mar-24	
Libya	RRL Tunisia / RIVM		2				2															0%	100%		100%	13-Mar-24	
Morocco	NPL Morocco, RRL Tunisia		31				27	1	3													0%	100%		100%	22-Mar-24	
Oman	NPL Oman / CDC		2				2															5%	100%		100%	28-Mar-24	
Pakistan	RRL Pakistan		3693	230	6	313	2724	347	46	2	138						157					7%	100%	100%	98%	31-Mar-24	
Palestine & UNRWA			5				4		1													0%	25%		100%	17-Mar-24	
Qatar	NPL Oman / CDC		3				2	1														0%	100%		100%	28-Mar-24	
Saudi Arabia	NPL Saudi Arabia / CDC		41	2		5	32		2								1			1		12%	90%	50%	100%	17-Mar-24	
Somalia	NPL Kenya / CDC		118	3		9	65	11	30		2					1	1					12%	1%		88%	31-Mar-24	
Sudan	NPL Sudan / RRL Egypt		53			3	10	40														23%	100%		69%	14-Apr-23	
Syria	NPL Syria / RRL Egypt		103			1	79	23														2%	100%			28-Mar-24	
Tunisia	RRL Tunisia		8				8															0%	100%		100%	13-Mar-24	
U.A.E	NPL Oman / CDC																					0%				28-Mar-24	
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt		121	3		24	94		1	1						1	1					17%	48%	100%	23%	24-Mar-24	
Total EMR 2024			6275	271	9	432	4065	1309	140	3	157					2	184				1	7%	96%	100%	95%		
Total EMR 2023			32170	1012	81	4527	26506	1	36	12	656					8	22				4	3	1	12%	90%	100%	93%

* Two WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

Environmental Surveillance Isolation by Classification

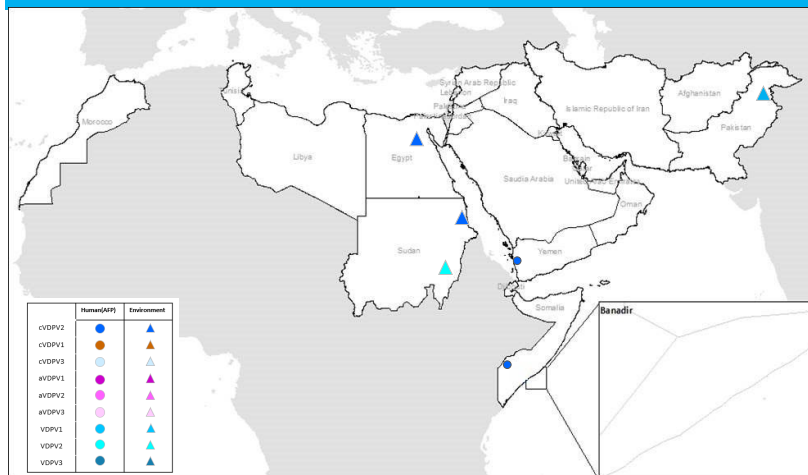
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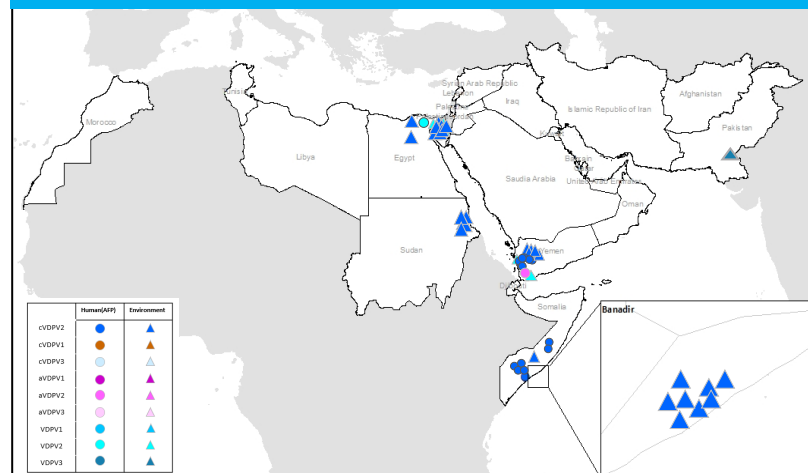
VDPVs isolations by Source and Country

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VDPV Isolates, EMR countries, 2024



VDPV Isolates, EMR countries, 2023



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																		174	40										23-06-21	
	Djibouti																			5	12										22-05-22
	Egypt																			12	6	11	1							31-01-24	
	Iran																			3	1										20-02-21
	Pakistan	22	135	8																38	135	35								11-08-21	
	Somalia	3	14	1	5	8	1																							26-10-23	
	Sudan		58		1																									11-01-24	
	Yemen			66	162	8	1																							25-09-23	
cVDPV1	Yemen	1	31	3																									27-03-21		
cVDPV3	Somalia																												07-09-18		
aVDPV1	Afghanistan																												22-02-21		
	Egypt																												16-07-20		
	Pakistan																												10-02-21		
	Somalia																												26-01-20		
	Yemen																												20-07-21		
aVDPV2	Afghanistan	3	1	1																									01-01-22		
	Egypt																												14-06-21		
	Iran																												14-02-22		
	Pakistan	7	8																										28-04-21		
	Somalia				2																								22-08-22		
	Yemen			3	1																								09-09-23		
aVDPV3	Afghanistan																												23-06-20		
	Egypt																												30-09-20		
	Pakistan																												05-04-21		
	Libya																												15-01-20		
VDPV1	Egypt																												11-07-21		
	Pakistan																												14-02-24		
VDPV2	Egypt					1																							17-07-23		
	Iran																												04-02-22		
	Jordan																												25-05-22		
	Somalia					1																							22-04-22		
	Sudan																												24-01-24		
	Yemen																												27-05-23		
VDPV3	Pakistan																											14-02-23			

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)