

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

- 8 cases of Wild Polio 1
 - 04 in Afghanistan
 - 04 in Pakistan

- 9 cases of cVDPV2
 - 02 in Somalia
 - 07 in Yemen

- Zero cVDPV1 cases



Sewage
water
sampling

2023

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

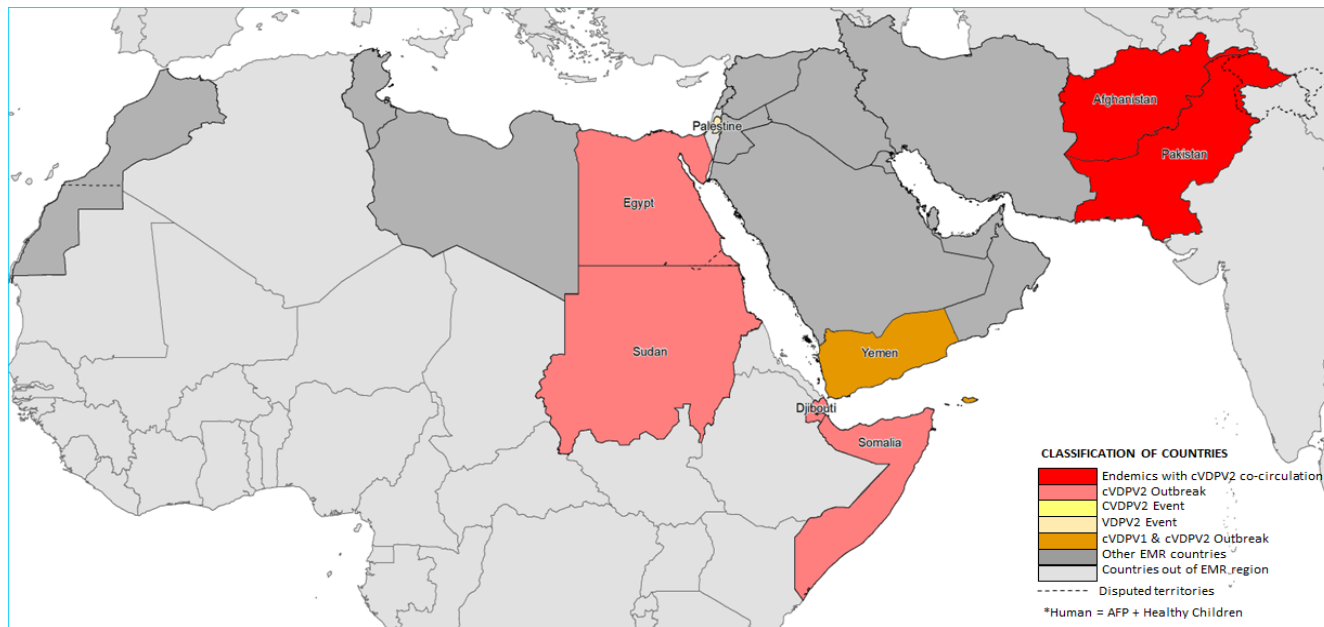
- 41 samples cVDPV2
 - 11 in Egypt
 - 16 in Yemen
 - 09 in Somalia
 - 05 in Sudan

2024

- 186 samples Wild Polio 1
 - 33 in Afghanistan
 - 153 in Pakistan

- 6 sample cVDPV2
 - 1 in Egypt
 - 1 in Somalia
 - 2 in Sudan
 - 2 in Yemen

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

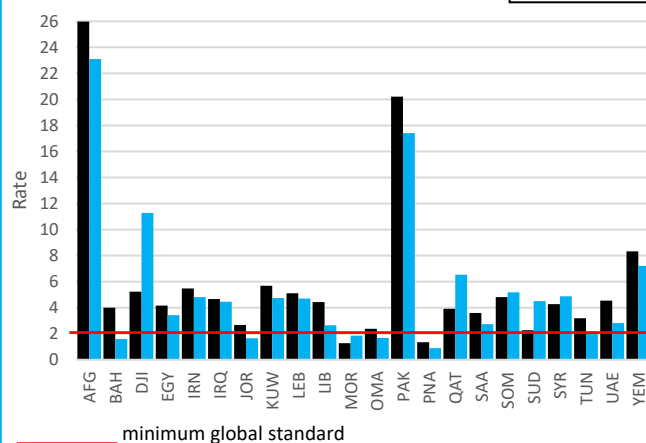
Wild Poliovirus

- Two new WPV1 cases in 2024 reported this week, one each from Afghanistan and Pakistan. The new case from Afghanistan is from Spinboldak district of Kandahar province, with date of onset on 10th May 2024, and the new case from Pakistan is from Shikarpur district of Sindh province, with date of onset 11th May 2024. The WPV1 case count in 2024 to date is 8 (4 each from Afghanistan and Pakistan), and for 2023, the count remains to be 12 (6 each from Afghanistan and Pakistan).
- Thirteen new WPV1 positive environmental samples (ES), all reported from Pakistan this week. The new isolates are as follows: 10 from Sindh province (6 from Karachi Towns, 2 from Sukkur, and 1 each from Jacobabad and Hyderabad districts) and 1 each from Punjab province (Lahore district), Balochistan province (Quetta district), and Khyber Pakhtunkhwa province (Kohat district). The sample collection dates vary between 6th and 15th May 2024. The ES count to date in 2024 is 186 (33 from Afghanistan and 153 from Pakistan). In 2023, the count remains to be 188 (62 in Afghanistan and 126 in Pakistan).

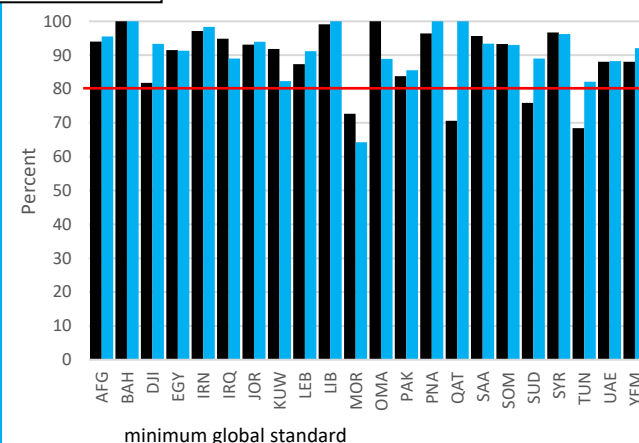
Vaccine derived poliovirus (VDPV)

- No new cVDPV2 isolates reported this week. The total count of cVDPV2 cases to date in 2024 is 9 (7 from Yemen and 2 from Somalia), while in 2023, the count remains to be 16 (8 each from Somalia and Yemen). The count of the cVDPV2 positive ES in 2024 to date is 6 (2 from Yemen, 2 from Sudan and 1 each from Egypt and Somalia), and in 2023 the count remains 41 (16 from Yemen, 11 from Egypt, 9 from Somalia, and 5 from Sudan).
- Advance notification:** Two cVDPV2 cases in 2024 were notified this week from Yemen. The cases are from Al Hudaidah and Ibb provinces with onset in March and April 2024.

Non polio AFP rate

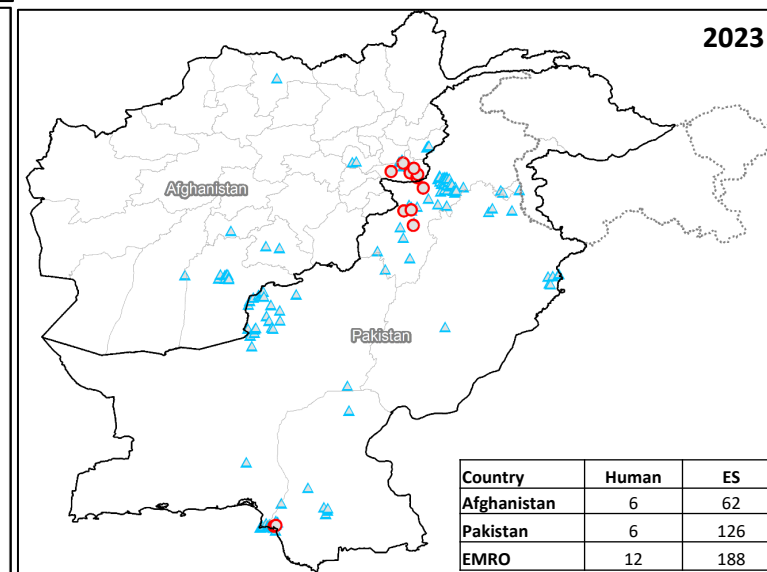
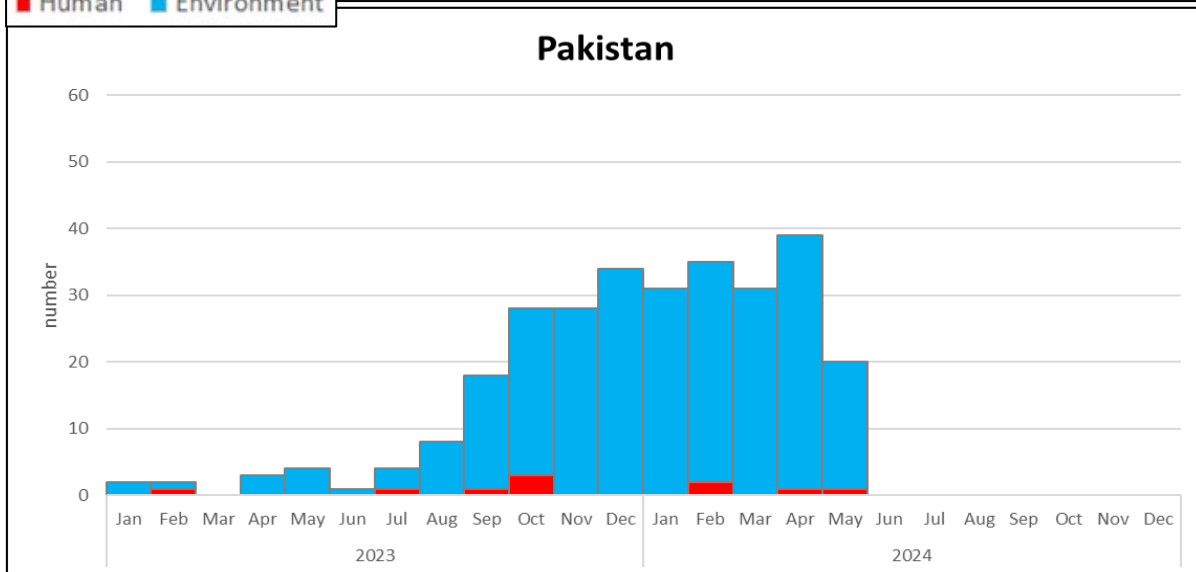
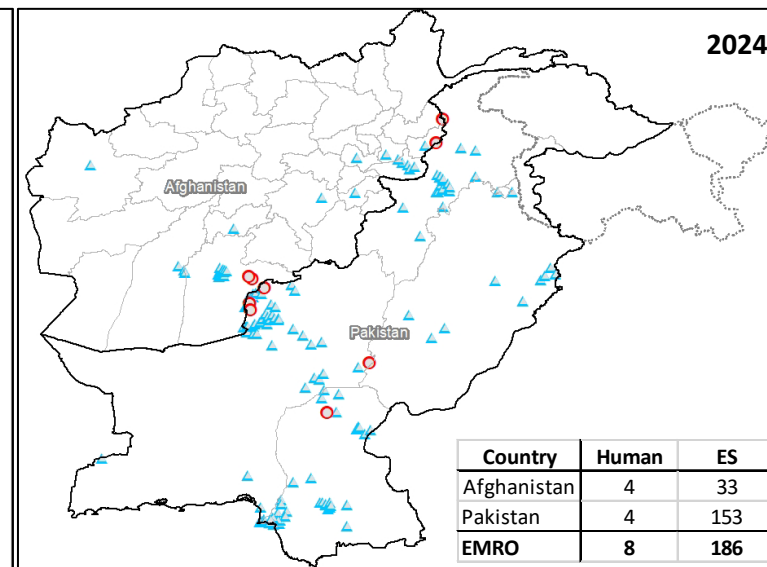
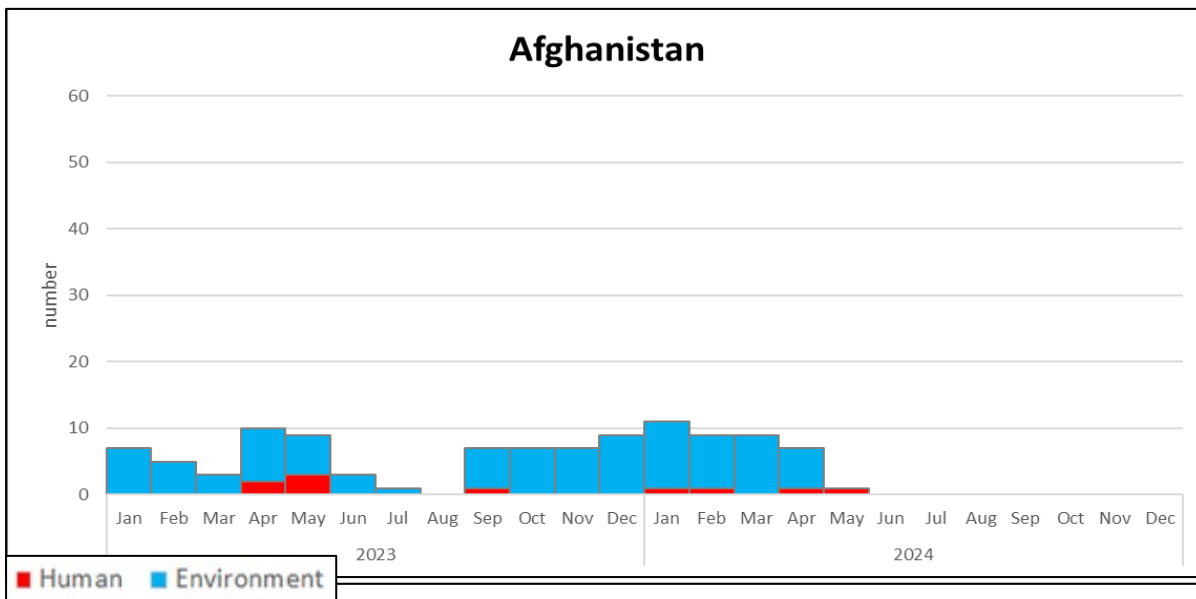


Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (2 June 2023, to 2 June 2024)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	5	9	1	8		16	39
Wild	5	9					14
cVDPV2				8		16	24
VDPV2			1				1
Environment	66	269	12	7	7	14	375
Wild	66	268					334
cVDPV2			12	7	7	14	40
WILD+VDPV1		1					1
Total	71	278	13	15	7	30	414

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	2 June		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2023						2024						
			2023	2024	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Afghanistan	2	6	5	4	0	0	1	0	0	0	1	1	0	1	1		10-May-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					
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				
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					
Morocco	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	1	4	1	0	1	3	0	0	0	2	0	1	1		11-May-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				
Saudi Arabia	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								
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	0			
U.A.E	0	0	0	0	0	0	0	0	0	0	0						
Yemen	0	0	0	0	0	0	0	0	0	0	0						
EMR	22	12	6	8	1	0	2	3	0	0	1	3	0	2	2	0	11-May-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	2197	4	0	1949	0	0	0	23.10	95.54	5856	6	0	5850	0	0	0	25.98	93.99	2-Jun-24
BAHRAIN	2	0	0	0	0	0	0	1.59	100.00	12	0	0	12	0	0	0	4.01	100.00	2-Jun-24
DJIBOUTI	15	0	0	4	0	1	0	11.27	93.33	22	0	0	22	0	0	0	5.23	81.82	31-May-24
EGYPT	610	0	0	562	0	10	0	3.42	91.31	1714	0	0	1714	1	0	0	4.16	91.48	30-May-24
IRAN	428	0	0	380	0	0	0	4.82	98.36	1150	0	0	1150	0	0	0	5.48	97.13	2-Jun-24
IRAQ	337	0	0	254	0	17	0	4.45	89.02	820	0	0	820	0	0	0	4.66	94.88	30-May-24
JORDAN	33	0	0	29	0	0	0	1.66	93.94	116	0	0	116	0	0	0	2.68	93.10	30-May-24
KUWAIT	17	0	0	17	0	0	0	4.74	82.35	49	0	0	49	0	0	0	5.69	91.84	2-Jun-24
LEBANON	34	0	0	25	0	1	0	4.70	91.18	79	0	0	79	0	0	0	5.11	87.34	31-May-24
LIBYA	29	0	0	13	0	0	0	2.65	100.00	115	0	0	115	0	0	0	4.43	99.13	2-Jun-24
MOROCCO	84	0	0	0	0	39	1	1.85	64.29	150	0	0	150	0	0	0	1.28	72.67	31-May-24
OMAN	9	0	0	9	0	0	0	1.68	88.89	30	0	0	30	0	0	0	2.38	100.00	30-May-24
PAKISTAN	7184	4	0	5975	0	125	0	17.41	85.54	19771	6	0	19754	0	11	1	20.22	83.78	2-Jun-24
PALESTINE	8	0	0	5	0	0	0	0.89	100.00	28	0	0	27	0	1	0	1.35	96.43	2-Jun-24
QATAR	12	0	0	0	0	2	0	6.54	100.00	17	0	0	17	0	0	0	3.91	70.59	2-Jun-24
SAUDI ARABIA	91	0	0	44	0	1	0	2.74	93.41	301	0	0	301	0	0	0	3.60	95.68	2-Jun-24
SOMALIA	201	0	0	182	2	0	0	5.18	93.03	433	0	0	425	8	0	0	4.81	93.30	2-Jun-24
SUDAN	173	0	0	11	0	49	6	4.51	89.02	473	0	0	451	0	22	1	2.28	75.90	2-Jun-24
SYRIA	160	0	0	146	0	0	0	4.88	96.25	332	0	0	332	0	0	0	4.27	96.69	1-Jun-24
TUNISIA	28	0	0	24	0	0	0	2.18	82.14	95	0	0	95	0	0	0	3.20	68.42	24-May-24
U.A.E.	17	0	0	7	0	2	2	2.82	88.24	67	0	0	67	0	0	0	4.54	88.06	27-May-24
YEMEN	493	0	0	234	7	15	7	7.21	92.09	1331	0	0	1321	9	1	0	8.33	88.05	25-May-24
EMR POL	12162	8	0	9870	9	262	16	10.26	88.78	32961	12	0	32897	18	35	2	11.30	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)

Laboratory investigation of AFP cases with paralysis onset in 2024

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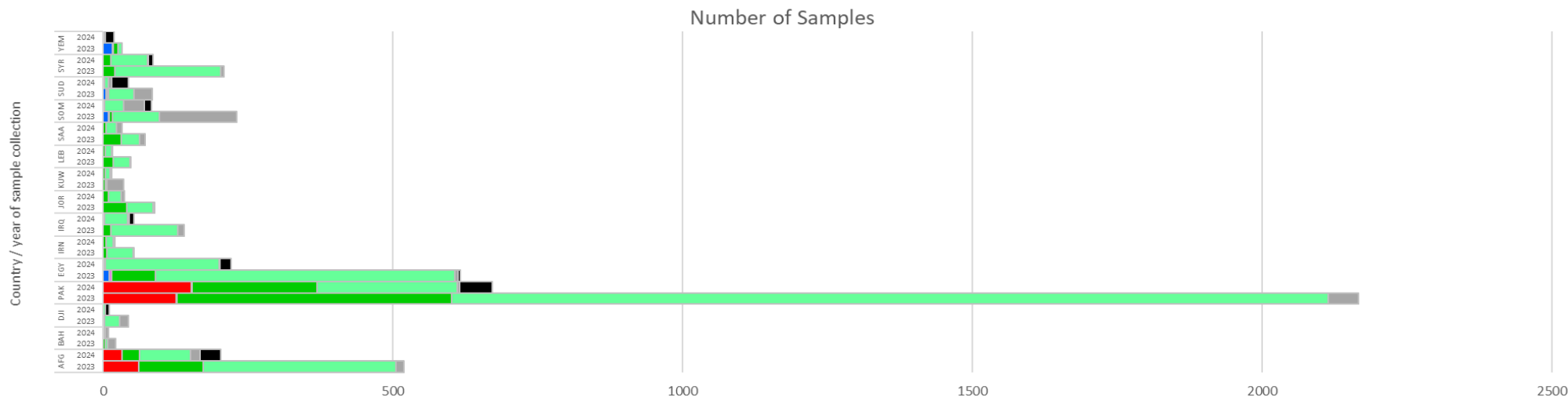
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results													Indicators				Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	2067	98	11	221	1495	198	15	4	61					75							9%	84%	100%	75%	2-Jun-24
Bahrain	NPL Oman / CDC																									30-May-24
Djibouti	NPL Kenya / CDC	15				4	3	8														0%	20%		100%	31-May-24
Egypt	RRL Egypt	640	6		37	556	41			1					4							5%	93%	100%	99%	30-May-24
Iran	NPL Iran / CDC	443	2		4	411	26			1					2							1%	100%	100%	99%	1-Jun-24
Iraq	NPL Iraq, RRL Egypt	342	11		41	251	26	13		3					9							13%	100%	100%	99%	31-May-24
Jordan	NPL Jordan, RRL Egypt	33			6	24	3															20%	87%		97%	2-Jun-24
Kuwait	RRL Kuwait / RIVM	17	1		1	15														1		3%	88%		100%	2-Jun-24
Lebanon	NPL Syria, RRL Egypt	28				28																0%	100%			30-May-24
Libya	RRL Tunisia / RIVM	27				14	13															0%	100%		43%	2-Jun-24
Morocco	NPL Morocco, RRL Tunisia	77				70	5	2														0%	100%		99%	31-May-24
Oman	NPL Oman / CDC	9				9																4%	89%		100%	30-May-24
Pakistan	RRL Pakistan	7045	336	14	745	5207	625	118	3 *	199					240		1					9%	89%	100%	96%	2-Jun-24
Palestine & UNRWA		8				6	2															0%	33%		100%	2-Jun-24
Qatar	NPL Oman / CDC	13	1			9	3								1							0%	100%	1	100%	30-May-24
Saudi Arabia	NPL Saudi Arabia / CDC	69	3		5	61				1					1				1			7%	87%	67%	100%	22-May-24
Somalia	NPL Kenya / CDC	201	8		24	152	8	9		4			1	2		2						13%	2%		90%	2-Jun-24
Sudan	NPL Sudan / RRL Egypt	120			7	58		55														10%	100%		31%	14-Apr-23
Syria	NPL Syria / RRL Egypt	159	2		4	142	11															3%	100%			30-May-24
Tunisia	RRL Tunisia	32				29	3															0%	100%		100%	2-Jun-24
U.A.E	NPL Oman / CDC	12			1	11																7%	50%		8%	30-May-24
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	367	16		54	238	48	12		4			1	8 **		3						17%	24%	94%	11%	25-May-24
Total EMR 2024		11724	484	25	1150	8790	1015	232	8 *	274			2	11 **		337		1		1	1	8%	87%	99%	93%	
Total EMR 2023		32173	1012	81	4530	26507	1	35	12 *	656			8	22		766		4	3	1	12%	90%	100%	92%		

* In 2024 - One WPV1 case is confirmed due to positive contact (Index case was 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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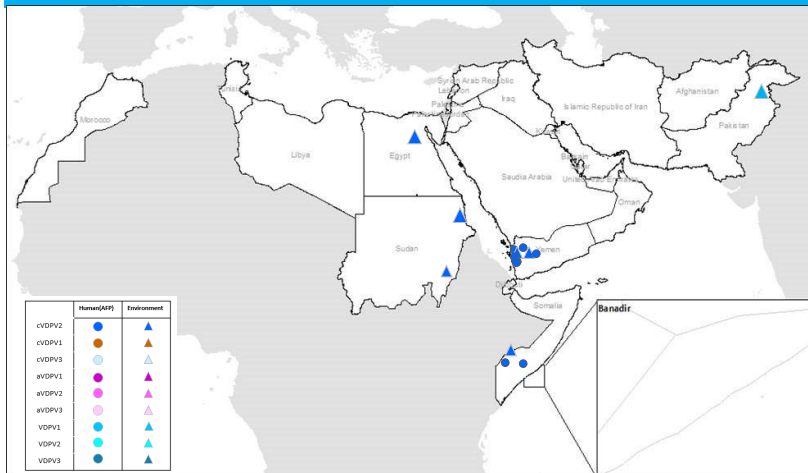


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024
Wild	62	33					126	152																						
cVDPV2									11	1													9	1	5	2			16	2
Wild+cVDPV2																														
Wild+VDPV1							1																							
Wild+aVDPV2																														
Wild+aVDPV3																														
aVDPV1																														
aVDPV2									4																					
aVDPV3																														
VDPV1																														
VDPV2																													2	
VDPV3							1																							
SL2																							2		1					
SL1/3	111	30	3	1	2		475	216	75	3	7	5	13	2	41	9	3	4	17	4	31	5	5	1	3		20	13	7	1
Enterovirus	332	88	5	2	27	3	1512	242	517	196	45	12	116	40	45	22	4	8	29	10	32	18	81	33	44	7	183	63	7	
Negative	14	16	13	6	15	1	53	4	6	2	1		11	3	3	5	28	1	1	2	10	9	134	36	32	6	6	2		
Pending		36				6		57	3	19		3		8				2						13		29		8		16

VDPVs isolations by Source and Country

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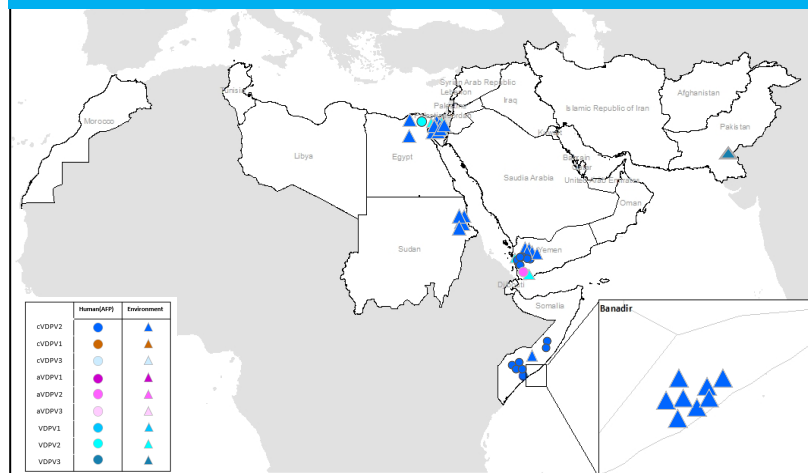
VDPV Isolates, EMR countries, 2024



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								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				23-04-21								38	135	35				11-08-21						
	Somalia	3	14	1	5	8	2	08-03-24	1	11		6	3	3	12-03-24	5	26	1	6	9	1	11-03-24	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	7	28-02-24			23	40	1	2	09-03-24		13	26	16	2		22-01-24						
cVDPV1	Yemen	1	31	3				27-03-21	2						10-07-19													
cVDPV3	Somalia							07-09-18							30-06-18							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					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						
	Libya		1					15-01-20																				
VDPV1	Egypt																1					11-07-21						
	Pakistan																		1			14-02-24						
VDPV2	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		24-01-24						
	Yemen																	3	2			27-05-23						
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)