

EMR Polio Bulletin

World Health Organization – Regional Office for Eastern Mediterranean Issue No. 1338, Week 21 (ending on 26/05/2024)

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

- 6 cases of Wild Polio 1
 - 03 in Afghanistan
 - 03 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

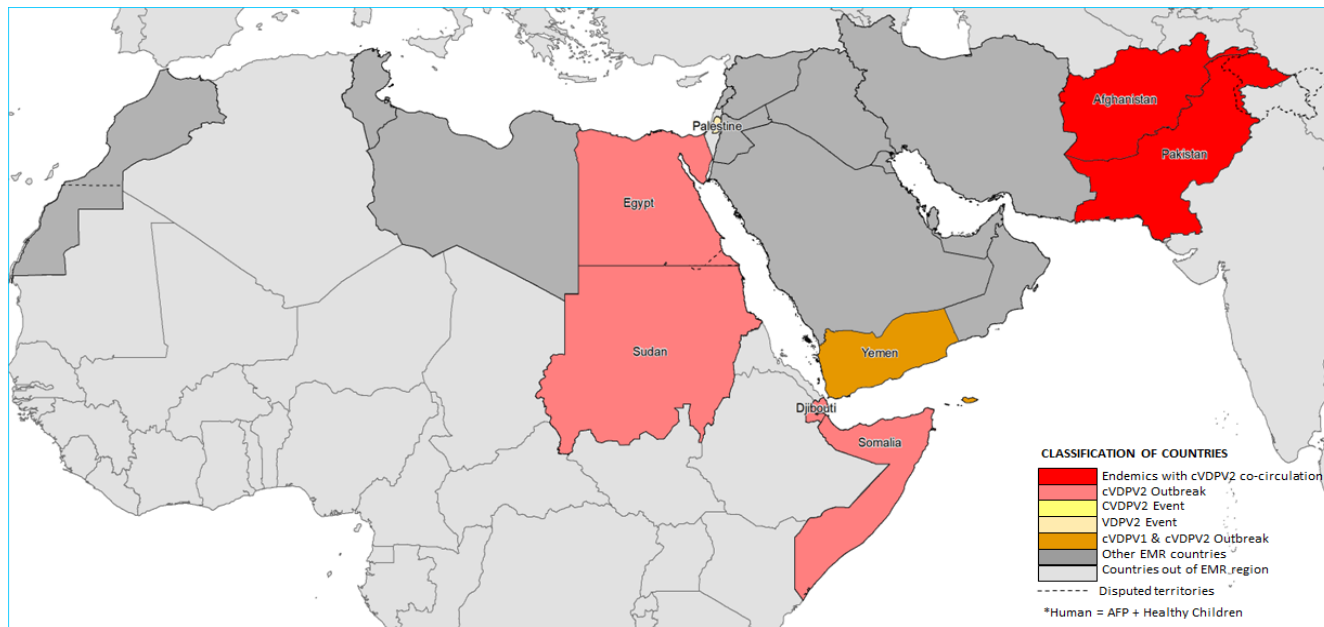
- 41 samples cVDPV2
 - 11 in Egypt
 - 16 in Yemen
 - 09 in Somalia
 - 05 in Sudan

2024

- 173 samples Wild Polio 1
 - 33 in Afghanistan
 - 140 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

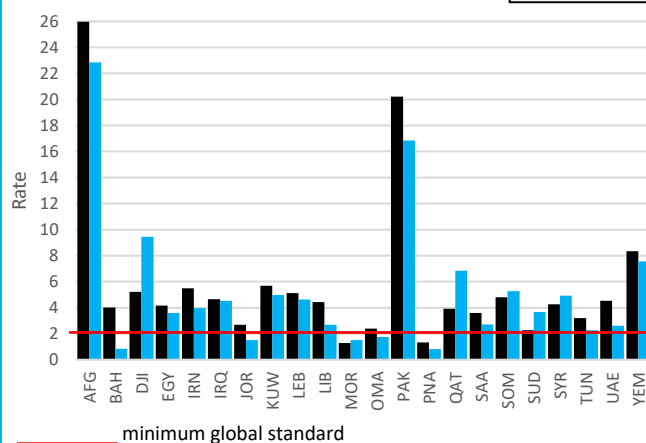
Wild Poliovirus

- One new WPV1 case in 2024 reported from Pakistan this week. The new case is from Killa Abdulla district of Balochistan province, with date of onset on 20th April 2024 (this index case had been identified by a positive contact). The WPV1 case count in 2024 to date is 6 (3 each from Afghanistan and Pakistan), and for 2023, the count remains to be 12 (6 each from Afghanistan and Pakistan).
- Six new WPV1 positive environmental samples (ES), all reported from Pakistan this week. The new ES are from: 4 from Balochistan province (2 from Chaman, and 1 each from Quetta and Pishin districts) and 2 from Sindh province (both from Hyderabad district), sample collection dates are between 6th and 7th May 2024. ES count to date in 2024 is 173 (33 from Afghanistan and 140 from Pakistan). In 2023, the count remains to be 188 (62 in Afghanistan and 126 in Pakistan).

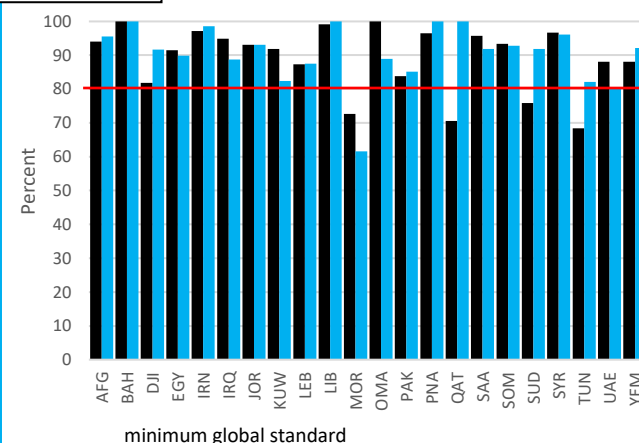
Vaccine derived poliovirus (VDPV)

- 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) and 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 to be 41 (16 from Yemen, 11 from Egypt, 9 from Somalia, and 5 from Sudan).

Non polio AFP rate



Stool adequacy

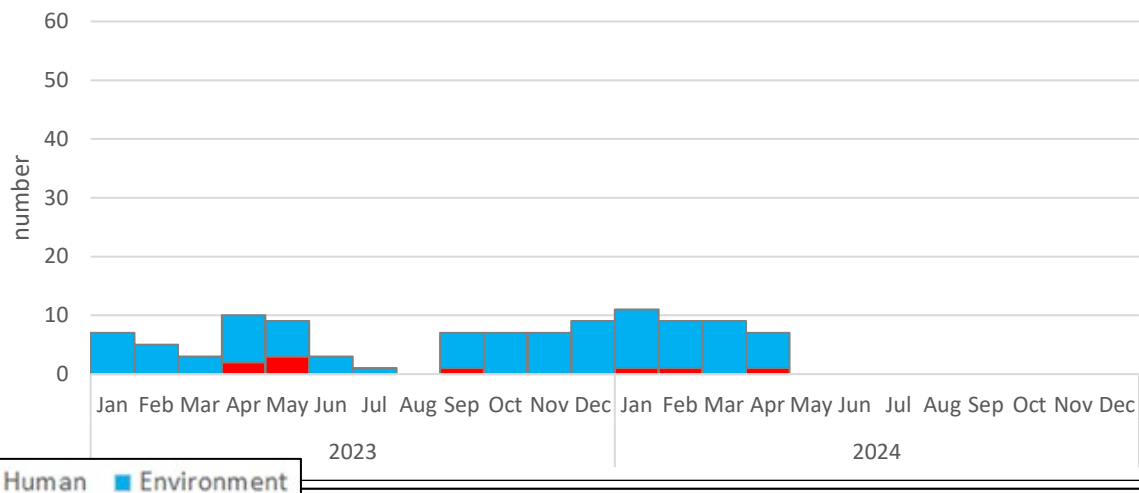


Wild Poliovirus type-1 (WPV1) Vaccine-derived Poliovirus (VDPV)

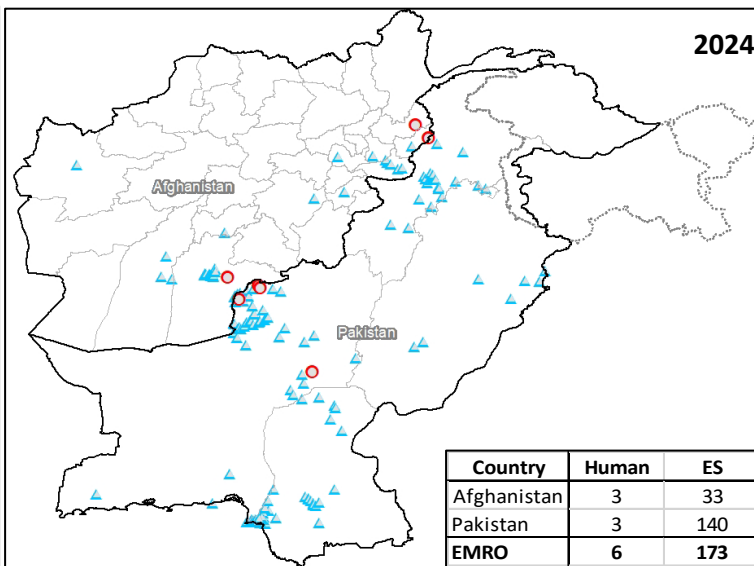
WPV1 Positive isolates from Afghanistan and Pakistan by source

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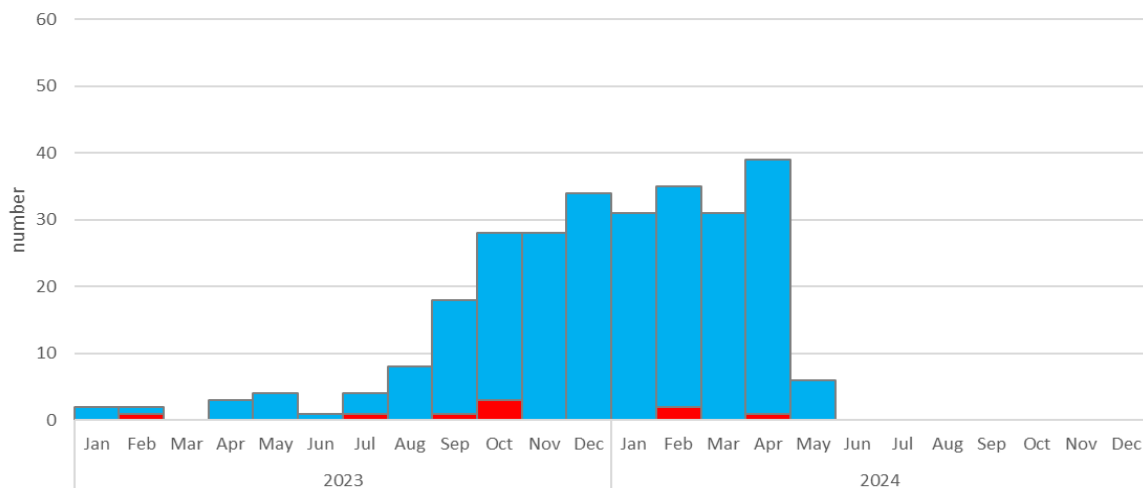
Afghanistan



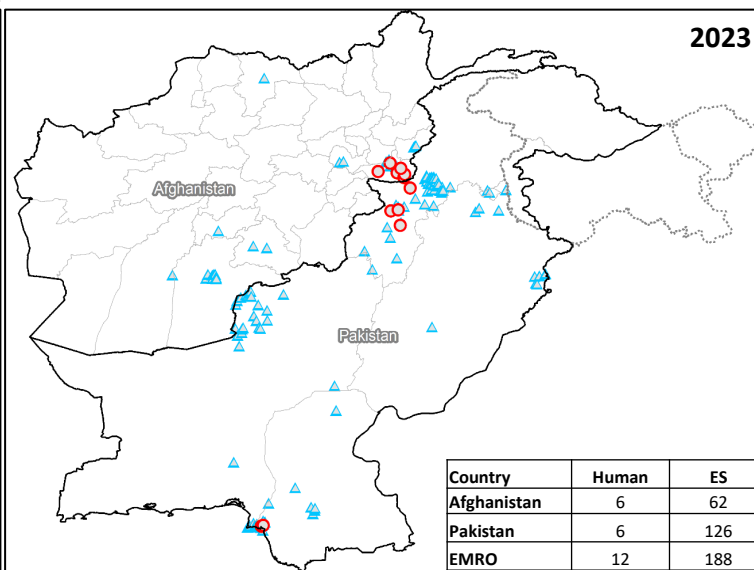
2024



Pakistan



2023



Virus isolation by country, last 12 months (26 May 2023, to 26 May 2024)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	4	8	1	8		16	37
Wild	4	8					12
cVDPV2				8		16	24
aVDPV2							
VDPV2			1				1
Environment	66	256	12	7	7	16	364
Wild	66	255					321
cVDPV2			12	7	7	15	41
aVDPV2							
VDPV2						1	1
WILD+VDPV1		1					1
Total	70	264	13	15	7	32	401

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	26 May		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2023						2024						
			2023	2024	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Afghanistan	2	6	5	3	0	0	0	1	0	0	0	1	1	0	1		05-Apr-24
Bahrain	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				
Egypt	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	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			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	20	6	1	3	0	1	0	1	3	0	0	0	2		1		20-Apr-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				
Somalia	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					
Yemen	0	0	0	0	0	0	0	0	0	0							
EMR	22	12	6	6	0	1	0	2	3	0	0	1	3	0	2	0	20-Apr-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	2073	3	0	1800	0	4	0	22.85	95.56	5855	6	0	5849	0	0	0	25.97	94.01	26-May-24
BAHRAIN	1	0	0	0	0	0	0	0.83	100.00	12	0	0	12	0	0	0	4.01	100.00	26-May-24
DJIBOUTI	12	0	0	4	0	0	0	9.45	91.67	22	0	0	22	0	0	0	5.23	81.82	25-May-24
EGYPT	610	0	0	508	0	9	0	3.59	89.84	1714	0	0	1714	1	0	0	4.16	91.48	16-May-24
IRAN	336	0	0	320	0	0	0	3.96	98.51	1150	0	0	1150	0	0	0	5.48	97.13	11-May-24
IRAQ	327	0	0	222	0	17	0	4.53	88.69	820	0	0	820	0	0	0	4.66	94.88	24-May-24
JORDAN	29	0	0	25	0	0	0	1.51	93.10	116	0	0	116	0	0	0	2.68	93.10	23-May-24
KUWAIT	17	0	0	14	0	0	0	4.96	82.35	49	0	0	49	0	0	0	5.69	91.84	26-May-24
LEBANON	32	0	0	17	0	1	0	4.63	87.50	79	0	0	79	0	0	0	5.11	87.34	26-May-24
LIBYA	28	0	0	13	0	0	0	2.68	100.00	115	0	0	115	0	0	0	4.43	99.13	25-May-24
MOROCCO	65	0	0	0	0	35	1	1.50	61.54	150	0	0	150	0	0	0	1.28	72.67	6-May-24
OMAN	9	0	0	8	0	0	0	1.76	88.89	30	0	0	30	0	0	0	2.38	100.00	23-May-24
PAKISTAN	6640	3	0	5496	0	138	0	16.84	85.08	19767	6	0	19745	0	16	0	20.21	83.80	26-May-24
PALESTINE	7	0	0	4	0	1	0	0.82	100.00	28	0	0	27	0	1	0	1.35	96.43	26-May-24
QATAR	12	0	0	0	0	2	0	6.85	100.00	17	0	0	17	0	0	0	3.91	70.59	26-May-24
SAUDI ARABIA	86	0	0	44	0	0	0	2.71	91.86	301	0	0	301	0	0	0	3.60	95.68	26-May-24
SOMALIA	195	0	0	180	2	0	0	5.27	92.82	433	0	0	425	8	0	0	4.81	93.30	26-May-24
SUDAN	135	0	0	11	0	41	3	3.67	91.85	473	0	0	452	0	21	1	2.28	75.90	19-May-24
SYRIA	154	0	0	112	0	0	0	4.92	96.10	332	0	0	332	0	0	0	4.27	96.69	25-May-24
TUNISIA	28	0	0	24	0	0	0	2.28	82.14	95	0	0	95	0	0	0	3.20	68.42	24-May-24
U.A.E.	15	0	0	1	0	5	3	2.61	80.00	67	0	0	67	0	0	0	4.54	88.06	13-May-24
YEMEN	493	0	0	234	7	9	2	7.55	92.09	1331	0	0	1321	9	1	0	8.33	88.05	25-May-24
EMR POL	11304	6	0	9037	9	262	9	9.98	88.43	32956	12	0	32888	18	39	1	11.30	87.22	

* 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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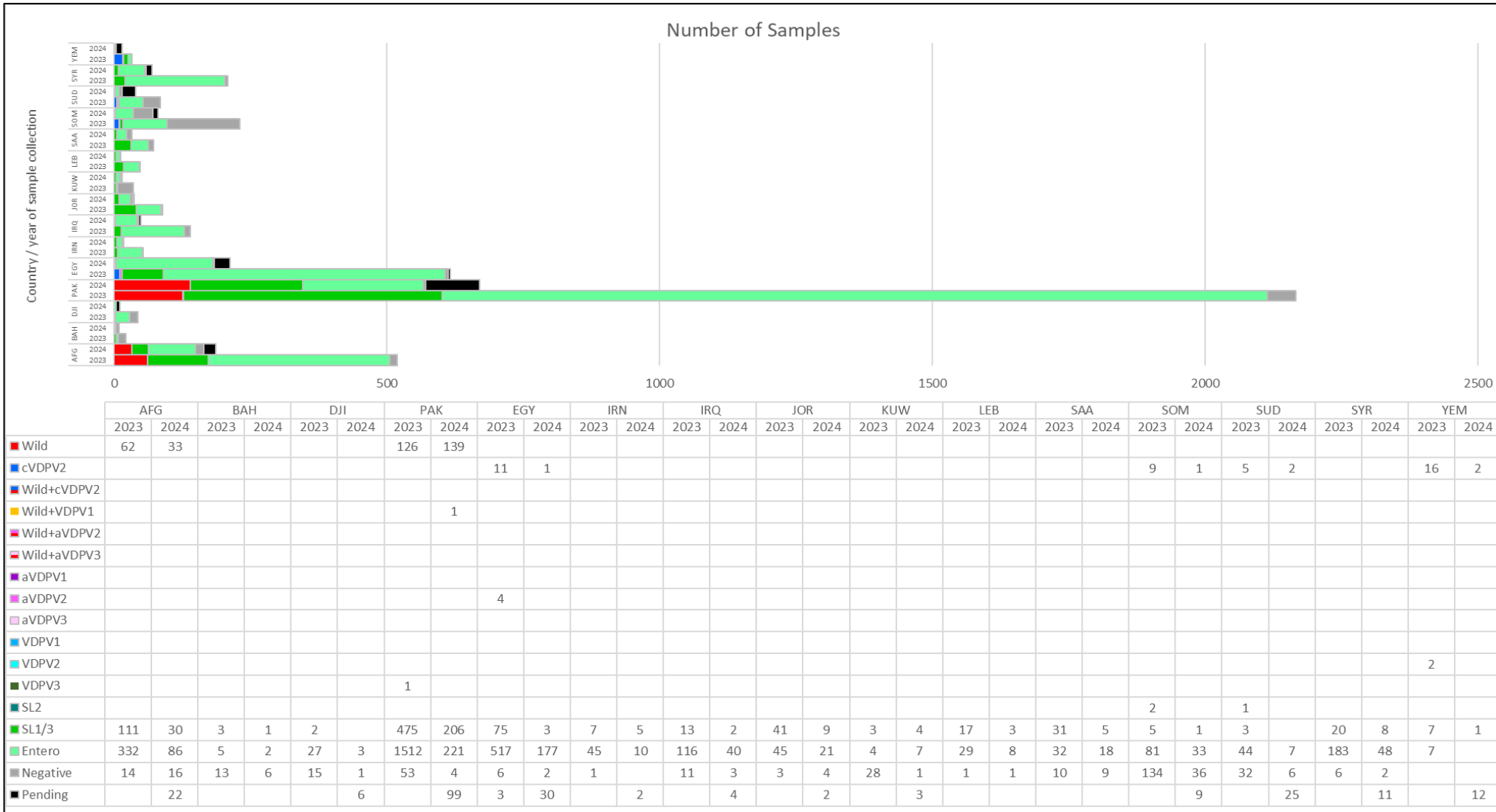
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results													Indicators				Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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 or 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	3	61					75							9%	84%	100%	75%	26-May-24
Bahrain	NPL Oman / CDC																									23-May-24
Djibouti	NPL Kenya / CDC	9				4		5														0%	25%		100%	25-May-24
Egypt	RRL Egypt	623	6		32	549	35	1		1					4							4%	93%	100%	99%	16-May-24
Iran	NPL Iran / CDC	415	2		4	394	15			1					2							1%	100%	100%	99%	25-May-24
Iraq	NPL Iraq, RRL Egypt	332	10		38	228	47	9		3					8							13%	100%	100%	99%	23-May-24
Jordan	NPL Jordan, RRL Egypt	29			6	23																21%	86%		97%	26-May-24
Kuwait	RRL Kuwait / RIVM	17	1		1	13	2													1		4%	87%		100%	24-May-24
Lebanon	NPL Syria, RRL Egypt	19				18		1														0%	100%			19-May-24
Libya	RRL Tunisia / RIVM	27				13	14															0%	100%		38%	26-May-24
Morocco	NPL Morocco, RRL Tunisia	73				45	18	10														0%	100%		98%	24-May-24
Oman	NPL Oman / CDC	9				7	1	1														4%	86%		100%	23-May-24
Pakistan	RRL Pakistan	6461	313	13	678	4853	449	120	2 *	188					221		1					9%	89%	100%	96%	26-May-24
Palestine & UNRWA		6				5		1														0%	20%		100%	26-May-24
Qatar	NPL Oman / CDC	10	1			9									1							0%	100%	1	100%	23-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	177	5		18	139		15		2			1	2	1							11%	3%		91%	26-May-24
Sudan	NPL Sudan / RRL Egypt	120			5	48	67															8%	100%		36%	14-Apr-23
Syria	NPL Syria / RRL Egypt	129	1		3	108		17														3%	100%			19-May-24
Tunisia	RRL Tunisia	29				25	4															0%	100%		100%	26-May-24
U.A.E	NPL Oman / CDC	12				6	6															0%	100%		0%	23-May-24
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	319	16		41	188		75		2			1	6 **	2					5		17%	30%	91%	12%	25-May-24
Total EMR 2024		10952	456	24	1052	8231	856	270	6 *	259			2	9 **		315		1		1	6	8%	86%	100%	90%	
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

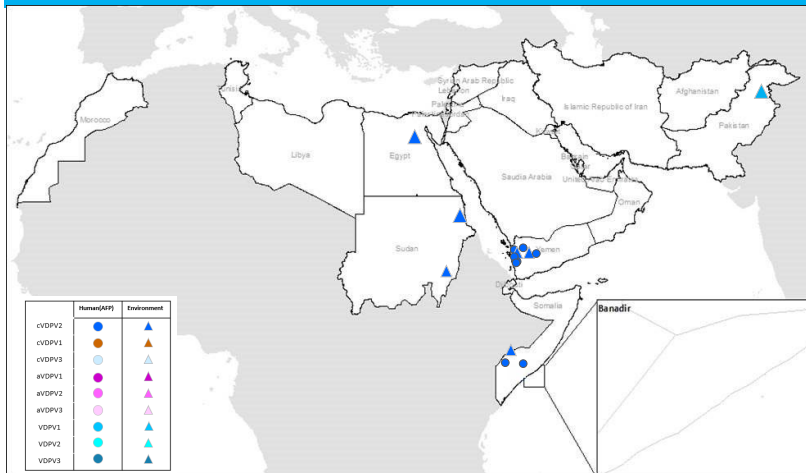
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VDPVs isolations by Source and Country

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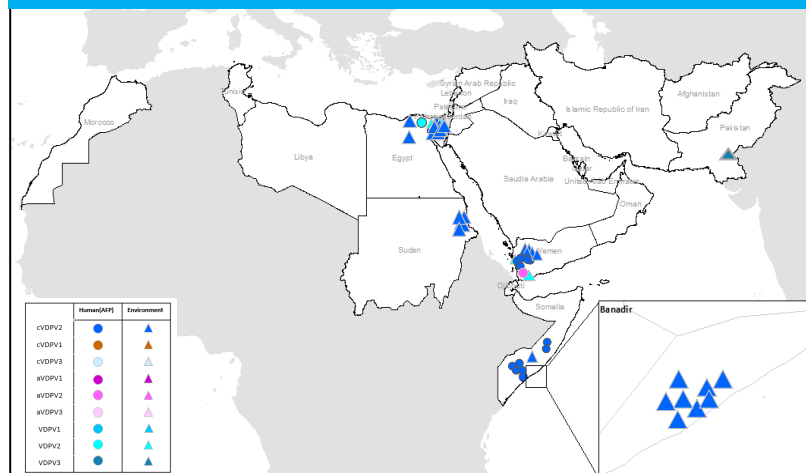
VDPV Isolates, EMR countries, 2024



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)