

Highlights



Children
Paralyzed
by polio

2023

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

- 9 cases of cVDPV2
 - 05 in Somalia
 - 04 in Yemen

- Zero cVDPV1 cases

2024

- Zero cases of Wild Polio 1

- Zero cases of cVDPV2

- Zero cVDPV1 cases



Sewage
water
sampling

2023

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

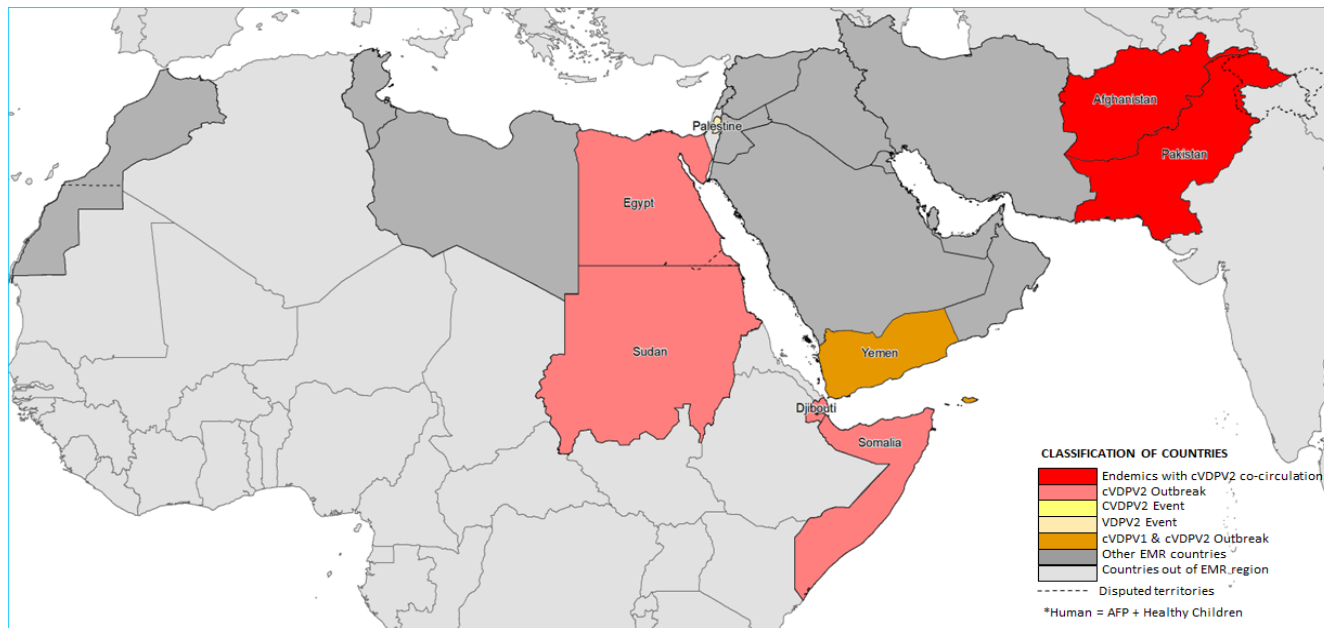
- 35 samples cVDPV2
 - 11 in Egypt
 - 10 in Yemen
 - 09 in Somalia
 - 05 in Sudan

2024

- 30 samples Wild Polio 1
 - 30 in Pakistan

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

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

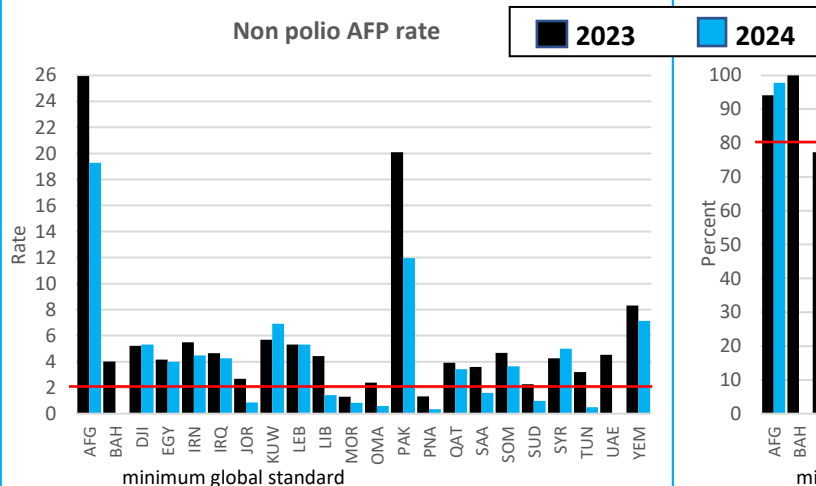
Wild Poliovirus

- No new WPV1 cases reported this week nor for the year 2024. In 2023, the WPV1 cases count remains to be 12 cases (6 each from Afghanistan and Pakistan).
- Two new positive WPV1 environmental samples were reported this week from Pakistan. The new WPV1 ES are from: one from each of Sibi district of Balochistan province and Peshawar district of Khyber Pakhtunkhwa province, with collection dates 15th and 22nd January 2024 respectively. The count of the WPV1 positive environmental samples in 2024 to date is 30 (all from Pakistan) and in 2023 the count remains to be 188 (62 in Afghanistan and 126 in Pakistan).

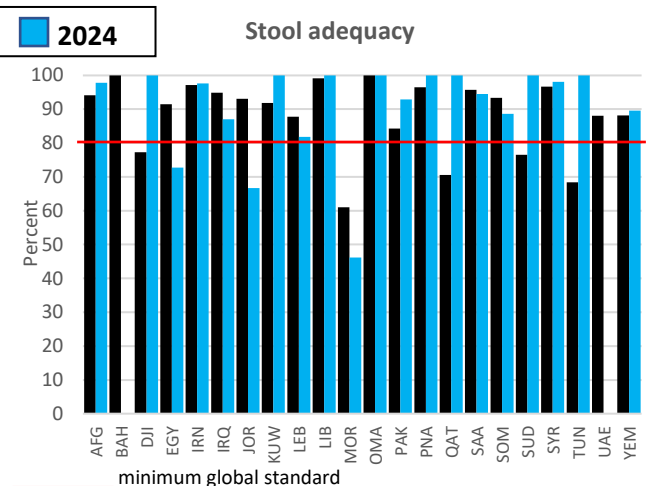
Circulating Vaccine derived poliovirus (cVDPV)

- No new cVDPV2 cases were reported this week. No cVDPV2 cases reported in 2024. In 2023 to date, the count of cVDPV2 cases is 9 (5 from Somalia and 4 from Yemen).
- One new positive cVDPV2 environmental sample was reported this week from Egypt. This is an importation event, genetically linked to transmission in Sudan. The sample was collected from M. ElSalam 1 district of Cairo province on 31st January 2024. In 2024, two cVDPV2 positive (ES) were reported one from Sudan and one from Egypt, while in 2023 the count is 35 (11 from Egypt, 10 from Yemen, 9 from Somalia, and 5 from Sudan).

Non polio AFP rate

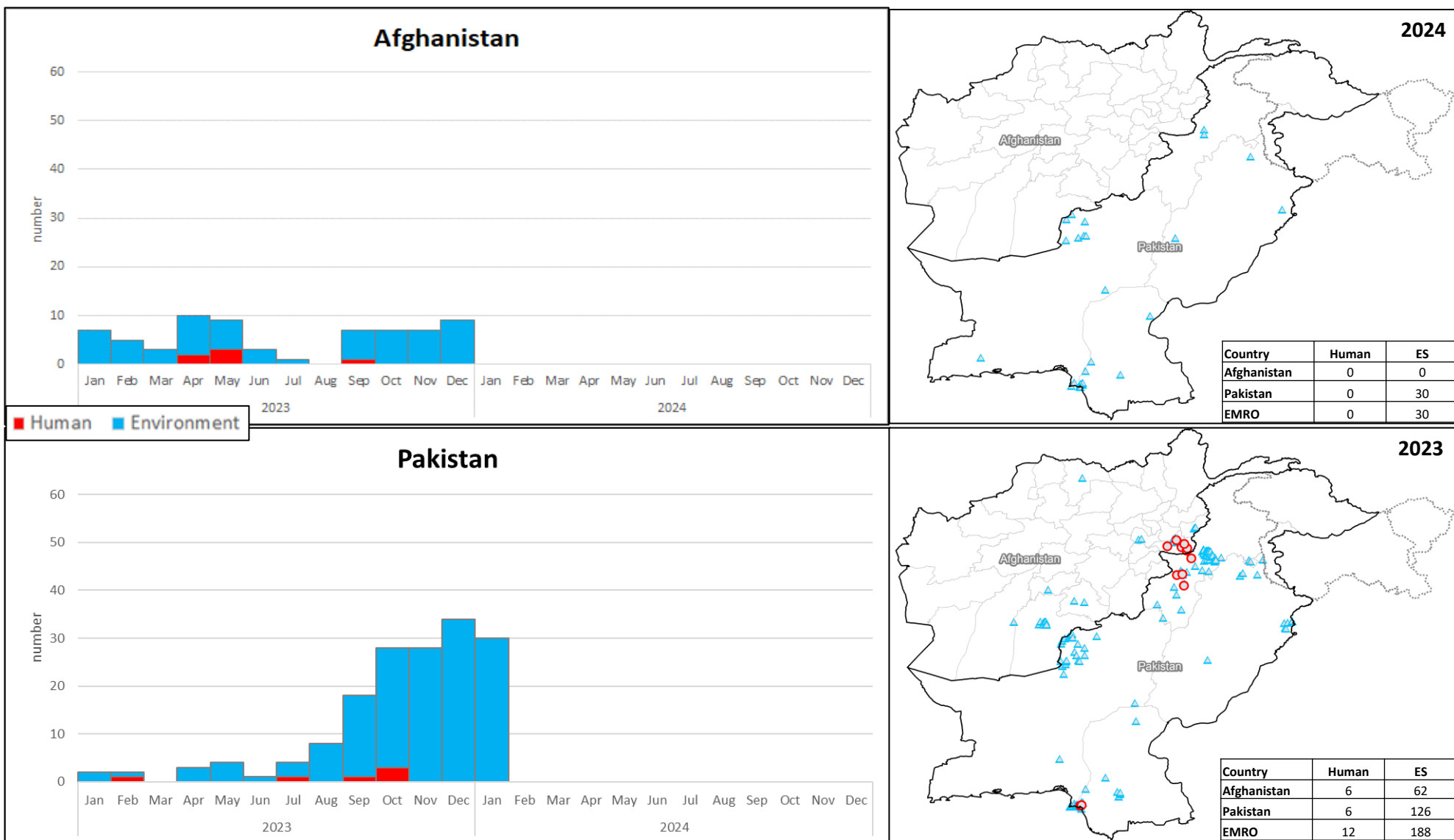


Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

EMR Polio Bulletin - Issue No. 1323, Week 06 (ending on 11/02/2024)



Virus isolation by country, last 12 months (Feb. 18 , 2023, to Feb. 18, 2024)

EMR Polio Bulletin - Issue No. 1324, Week 07 (ending on 18/02/2024)

Source / Virus type	AFG	DJI	PAK	EGY	JOR	SOM	SUD	YEM	Total
Human (AFP only)	7		26	1		10	1	126	171
Wild	7		26						33
cVDPV2						9	1	124	134
aVDPV2						1		2	3
VDPV2				1					1
VDPV3									
Environment	84	9	194	25	2	16	7	38	375
Wild	84		193						277
cVDPV2		9		18		15	7	33	82
aVDPV2				7					7
VDPV2					2	1		5	8
VDPV3			1						1
Total	91	9	220	26	2	26	8	164	546

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	18 February		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2023										2024		
			2023	2024	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Afghanistan	2	6	0	0	0	2	3	0	0	0	1	0	0	0			04-Sep-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				
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	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			
Lebanon ****	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	0			
Morocco	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	0	0	0	0	0	0	0	1	0	1	3	0			24-Oct-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			
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	0			
U.A.E	0	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	0						
EMR	22	12	0	0	0	2	3	0	1	0	2	3	0	0	0	0	24-Oct-23

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

Investigation of AFP cases with paralysis onset in 2023 & 2024

EMR Polio Bulletin - Issue No. 1324, Week 07 (ending on 18/02/2024)

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	Pollo Compatible	Discarded (non Pollo AFP)	VDPV	Pending classification > 90 days from onset	Pending LAB classification > 90 days from onset	Annualized Non pollo AFP rate	% with adequate specimens		Total Confirmed WPV1 Polio Cases	Pollo Compatible	Discarded (non pollo AFP)	VDPV	Pending classification > 90 days from onset	Pending LAB classification > 90 days from onset	Annualized Non pollo AFP rate	% with adequate specimens	
AFGHANISTAN	582	0	0	255	0	0	0	19.27	97.77	5848	6	0	5817	0	5	0	25.94	94.08	18-Feb-24
BAHRAIN	0	0	0	0	0	0	0	0.00		12	0	0	10	0	2	1	4.01	100.00	18-Feb-24
DJIBOUTI	3	0	0	0	0	0	0	5.32	100.00	22	0	0	22	0	0	0	5.23	77.27	18-Feb-24
EGYPT	220	0	0	79	0	0	0	3.98	72.73	1714	0	0	1686	1	21	0	4.16	91.48	15-Feb-24
IRAN	126	0	0	96	0	0	0	4.48	97.62	1150	0	0	1150	0	0	0	5.48	97.13	17-Feb-24
IRAQ	100	0	0	48	0	0	0	4.25	87.00	820	0	0	816	0	3	2	4.66	94.88	15-Feb-24
JORDAN	6	0	0	2	0	0	0	0.88	66.67	116	0	0	116	0	0	0	2.68	93.10	15-Feb-24
KUWAIT	8	0	0	6	0	0	0	6.92	100.00	49	0	0	49	0	0	0	5.69	91.84	18-Feb-24
LEBANON	11	0	0	7	0	0	0	5.31	81.82	82	0	0	75	0	6	0	5.31	87.80	18-Feb-24
LIBYA	5	0	0	2	0	0	0	1.44	100.00	115	0	0	115	0	0	0	4.43	99.13	11-Feb-24
MOROCCO	13	0	0	0	0	0	0	0.84	46.15	154	0	0	42	0	78	18	1.31	61.04	5-Feb-24
OMAN	1	0	0	1	0	0	0	0.59	100.00	30	0	0	30	0	0	0	2.38	100.00	11-Feb-24
PAKISTAN	1574	0	0	1150	0	0	0	11.95	92.88	19656	6	0	19203	0	202	0	20.09	84.25	18-Feb-24
PALESTINE	1	0	0	0	0	0	0	0.36	100.00	28	0	0	24	0	0	0	1.35	96.43	18-Feb-24
QATAR	2	0	0	0	0	0	0	3.43	100.00	17	0	0	17	0	0	0	3.91	70.59	18-Feb-24
SAUDI ARABIA	18	0	0	0	0	0	0	1.61	94.44	301	0	0	281	0	0	0	3.60	95.68	11-Feb-24
SOMALIA	44	0	0	17	0	0	0	3.65	88.64	420	0	0	411	5	0	0	4.68	93.33	18-Feb-24
SUDAN	28	0	0	0	0	0	0	0.98	100.00	473	0	0	399	0	35	4	2.28	76.53	18-Feb-24
SYRIA	52	0	0	22	0	0	0	5.00	98.08	332	0	0	331	0	0	0	4.27	96.69	17-Feb-24
TUNISIA	2	0	0	0	0	0	0	0.51	100.00	95	0	0	95	0	0	0	3.20	68.42	9-Feb-24
U.A.E.	0	0	0	0	0	0	0	0.00		67	0	0	66	0	0	0	4.54	88.06	13-Feb-24
YEMEN	153	0	0	0	0	0	0	7.15	89.54	1330	0	0	1163	6	30	20	8.32	88.12	17-Feb-24
EMR POL	2949	0	0	1685	0	0	0	7.52	92.03	32831	12	0	31918	12	382	45	11.26	87.46	

* 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

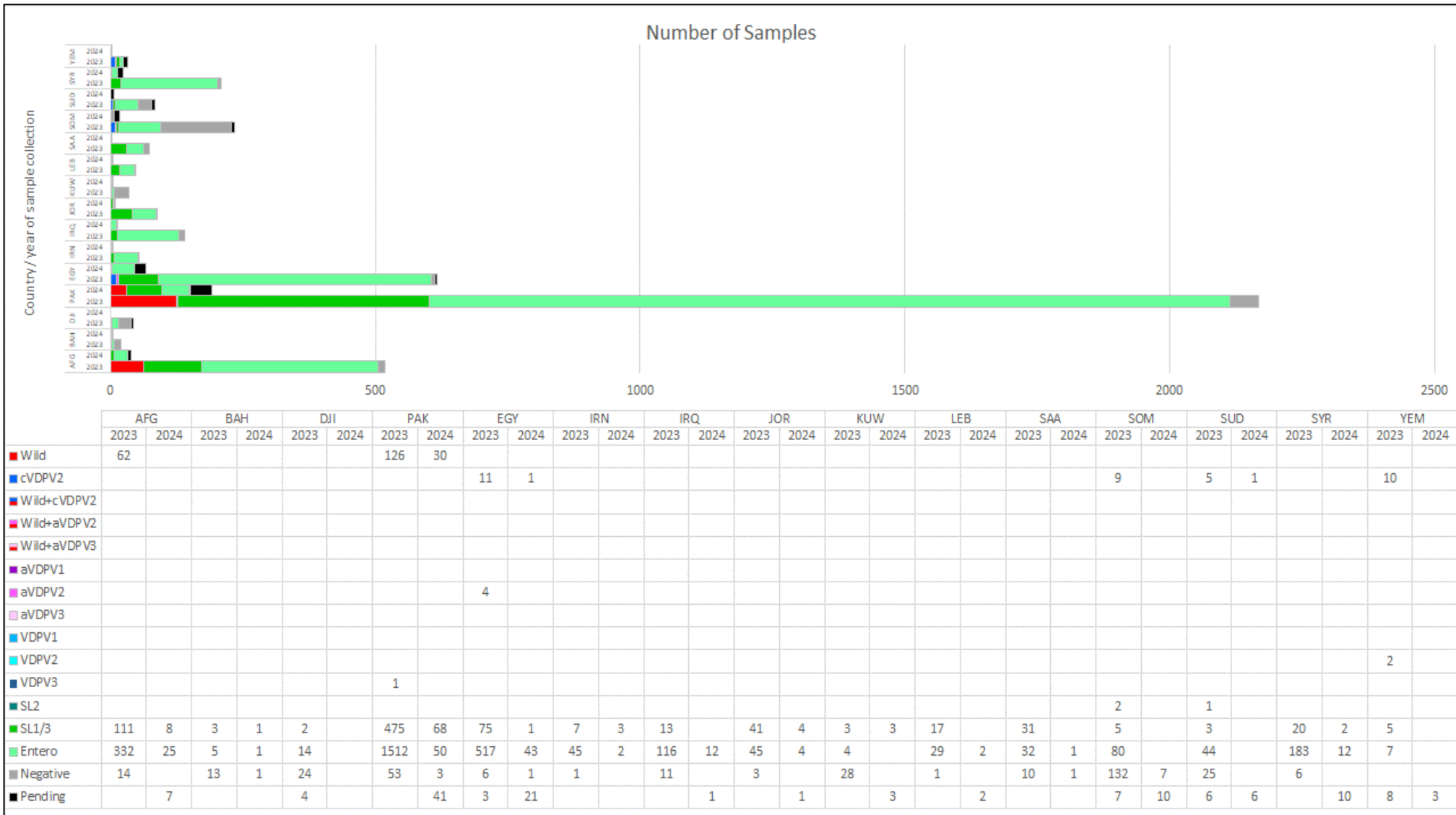
EMR Polio Bulletin - Issue No. 1324, Week 07 (ending on 18/02/2024)

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	443	12	2	31	212		1		8						10						9%	100%	100%	100%	18-Feb-24
Bahrain	NPL Oman / CDC																									18-Feb-24
Djibouti	NPL Kenya / CDC	3					1	2																		17-Feb-24
Egypt	RRL Egypt	176	2		5	116	49	4		1						1						4%	97%	100%	100%	15-Feb-24
Iran	NPL Iran / CDC	140	1			126	11	2		1						1						0%	99%	100%	100%	17-Feb-24
Iraq	NPL Iraq, RRL Egypt	105	1		12	52	31	9		1												19%	100%	100%	100%	16-Feb-24
Jordan	NPL Jordan, RRL Egypt	3				3																0%	100%		100%	18-Feb-24
Kuwait	RRL Kuwait / RIVM	8	1		1	4		2												1		8%	67%		100%	15-Feb-24
Lebanon	NPL Syria, RRL Egypt	7				7																0%	100%			15-Feb-24
Libya	RRL Tunisia / RIVM	2				2																0%	100%		100%	14-Feb-24
Morocco	NPL Morocco, RRL Tunisia	14				9	5															0%	100%		100%	16-Feb-24
Oman	NPL Oman / CDC	1				1																0%	100%		100%	18-Feb-24
Pakistan	RRL Pakistan	1576	97	1	108	986	271	96		50						78						6%	100%	100%	100%	18-Feb-24
Palestine & UNRWA		1				1																0%	100%		100%	18-Feb-24
Qatar	NPL Oman / CDC	1					1																			18-Feb-24
Saudi Arabia	NPL Saudi Arabia / CDC	3				3																0%	100%		100%	25-Jan-24
Somalia	NPL Kenya / CDC	44			2	15	9	18														12%	0%		94%	18-Feb-24
Sudan	NPL Sudan / RRL Egypt																									14-Apr-23
Syria	NPL Syria / RRL Egypt	49				24	24	1														3%	100%			15-Feb-24
Tunisia	RRL Tunisia	5				1	4															0%	100%		100%	14-Feb-24
U.A.E	NPL Oman / CDC																					0%				18-Feb-24
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt																									17-Feb-24
Total EMR 2024		2581	114	3	159	1562	406	135		61						90				1	7%	99%	100%	100%		
Total EMR 2023		31963	1003	81	4475	26316	21	61	12 *	655		4	8	11		765		4	3	1	12%	91%	100%	93%		

* In 2023 – Two WPV1 cases are confirmed due to positive contacts while in 2022 - three WPV1 cases were confirmed due to positive contacts (Index cases were negative for WPV1)

Environmental Surveillance Isolation by Classification

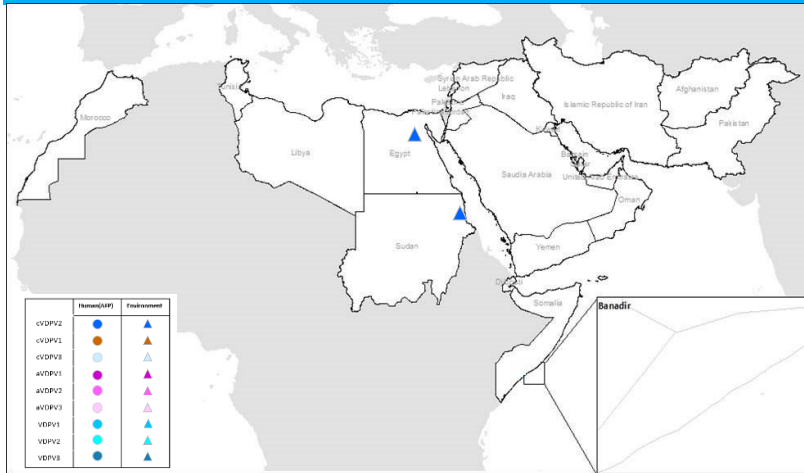
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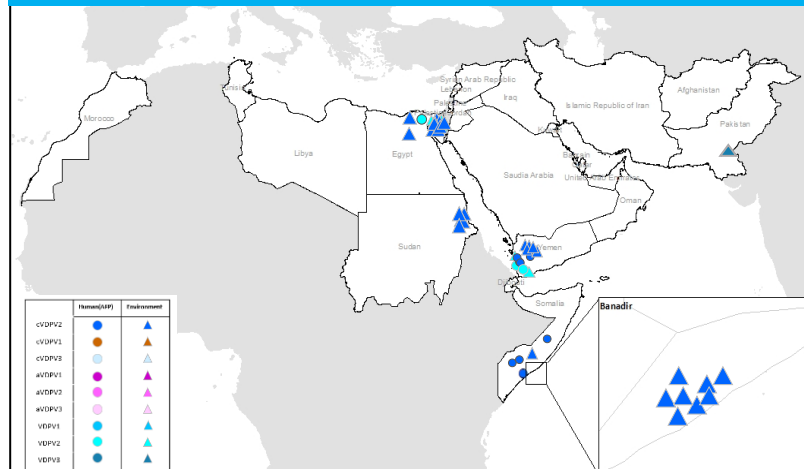
VDPVs isolations by Source and Country

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VDPV Isolates, EMR countries, 2024



VDPV Isolates, EMR countries, 2023



VDPVs isolated from 2018-2023

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	5		16-09-23	1	11		6	3		03-08-23	5	26	1	6	9		26-10-23	1	5		1		10-03-22
	Sudan		58		1			31-10-22		18					08-10-20		14		1	5	1	11-01-24		4				24-08-20
	Yemen			66	162	4		17-11-23			23	40	1		11-06-23			13	26	10		25-09-23						
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																				
aVDPV2	Yemen			1				20-07-21																				
	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						
aVDPV3	Yemen			3				01-11-21		1					09-12-21													
	Afghanistan	1						23-06-20																				
	Egypt															2						30-09-20						
	Pakistan																	1				05-04-21						
VDPV1	Libya	1						15-01-20																				
VDPV2	Egypt																	1				11-07-21						
	Iran																		1			04-02-22						
	Jordan																		2			25-05-22						
	Somalia				1			01-09-22											1			22-04-22						
	Sudan																											
	Yemen					2		11-11-23											3	2		27-05-23						
VDPV3	Pakistan																		1			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)