

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

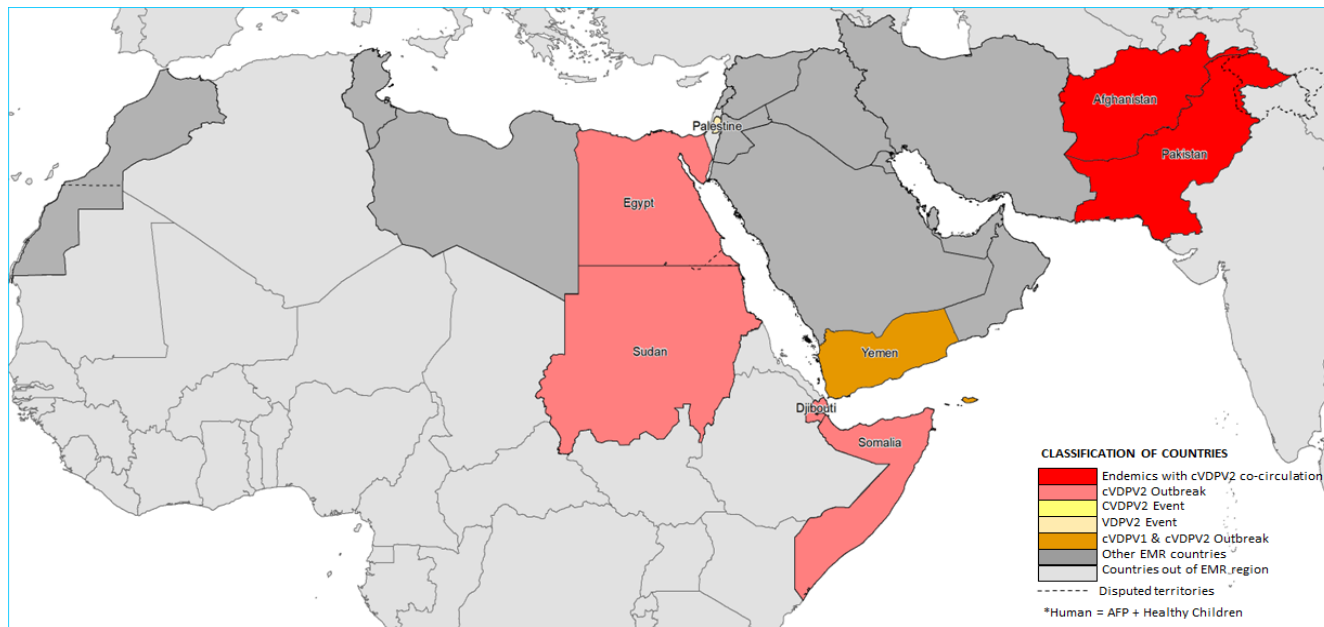
- 33 samples cVDPV2
 - 10 in Yemen
 - 10 in Egypt
 - 09 in Somalia
 - 04 in Sudan

2024

- 28 samples Wild Polio 1
 - 28 in Pakistan

- Zero samples of cVDPV2

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

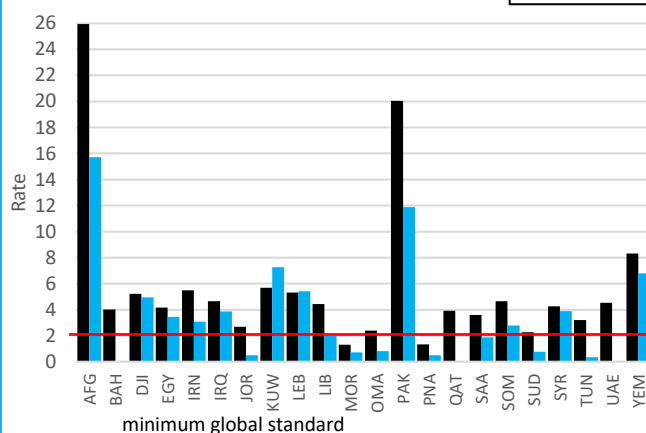
Wild Poliovirus

- No new WPV1 case reported this week. No WPV1 cases reported in 2024 while in 2023, the WPV1 cases count remains to be 12 cases (6 each from Afghanistan and Pakistan).
- Thirty new WPV1 positive environmental samples (ES) reported this week all from Pakistan (2 are from 2023 and 28 in 2024). The two new WPV1 ES in 2023 are both from Balochistan province with specimen collection dates in December 2023; while the 28 WPV1 ES in 2024 areas follows: 14 from Sindh province, 9 from Balochistan province, 3 from Punjab province and 2 from Khyber Pakhtunkhwa province with specimen collection dates varying between 2-16 January 2024. The total WPV1 positive environmental samples' count in 2024 is 28 (all from Pakistan) while in 2023 the count to date is 188 (62 in Afghanistan and 126 in Pakistan).

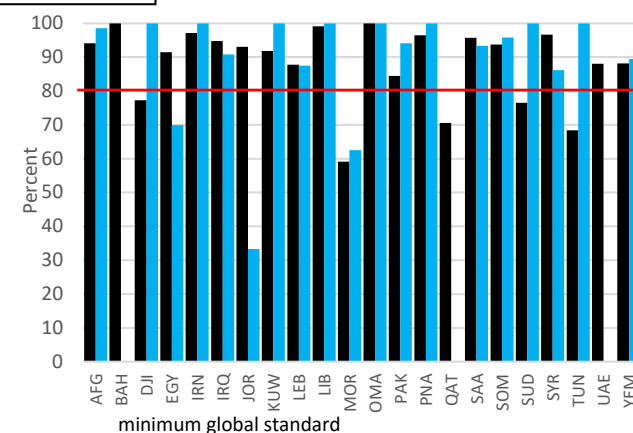
Vaccine derived poliovirus (VDPV)

- No new cVDPV2 cases reported this week. No cVDPV2 cases reported in 2024 and in 2023, to date the count of cVDPV2 cases is 9 (5 from Somalia and 4 from Yemen).
- Two new cVDPV2 ES reported this week from Egypt, both are from North Sinai province, with specimen collection dates on 30th and 31st December 2023. In 2023, the count to date is 33 (10 from each Yemen and Egypt, 9 from Somalia, and 4 from Sudan). No cVDPV2 ES reported in 2024.

Non polio AFP rate

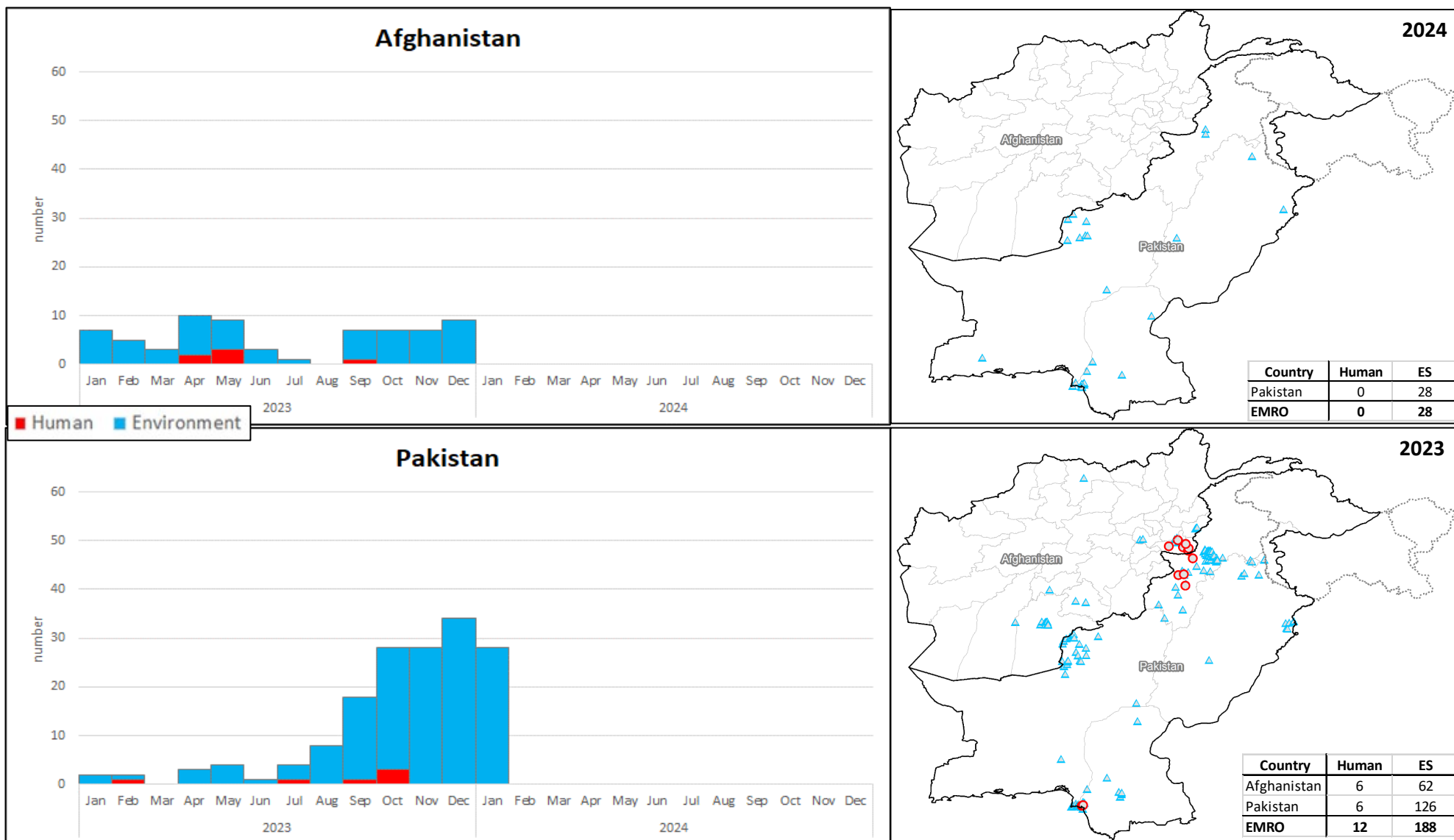


Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

EMR Polio Bulletin - Issue No. 1322, Week 05 (ending on 04/02/2024)



Virus isolation by country, last 12 months (Feb. 04 , 2023, to Feb. 04, 2024)

EMR Polio Bulletin - Issue No. 1322, Week 05 (ending on 04/02/2024)

Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	6	6	1	4		6	23
Wild	6	6					12
cVDPV2				4		4	8
aVDPV2						2	2
VDPV2			1				1
VDPV3							
Environment	53	153	13	9	4	12	244
Wild	53	152					205
cVDPV2			10	9	4	10	33
aVDPV2			3				3
VDPV2						2	2
VDPV3		1					1
Total	59	159	14	13	4	18	267

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

EMR Polio Bulletin - Issue No. 1322, Week 05 (ending on 04/02/2024)

Country	Total year 2022	Total year 2023	4 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	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								
Oman	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		
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 2022 & 2023

EMR Polio Bulletin - Issue No. 1322, Week 05 (ending on 04/02/2024)

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	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	339	0	0	162	0	0	0	15.72	98.53	5847	6	0	5811	0	3	0	25.94	94.10	4-Feb-24
BAHRAIN	0	0	0	0	0	0	0	0.00		12	0	0	10	0	2	1	4.01	100.00	4-Feb-24
DJIBOUTI	2	0	0	0	0	0	0	4.96	100.00	22	0	0	9	0	5	0	5.23	77.27	4-Feb-24
EGYPT	136	0	0	13	0	0	0	3.45	69.85	1714	0	0	1677	1	17	0	4.16	91.48	1-Feb-24
IRAN	62	0	0	19	0	0	0	3.09	100.00	1150	0	0	1147	0	0	0	5.48	97.13	3-Feb-24
IRAQ	65	0	0	31	0	0	0	3.87	90.77	820	0	0	802	0	9	0	4.66	94.76	3-Feb-24
JORDAN	3	0	0	2	0	0	0	0.49	33.33	116	0	0	116	0	0	0	2.68	93.10	31-Jan-24
KUWAIT	6	0	0	3	0	0	0	7.27	100.00	49	0	0	49	0	0	0	5.69	91.84	4-Feb-24
LEBANON	8	0	0	4	0	0	0	5.41	87.50	82	0	0	75	0	6	0	5.31	87.80	4-Feb-24
LIBYA	5	0	0	0	0	0	0	2.01	100.00	115	0	0	112	0	0	0	4.43	99.13	27-Jan-24
MOROCCO	8	0	0	0	0	0	0	0.72	62.50	154	0	0	42	0	68	13	1.31	59.09	19-Jan-24
OMAN	1	0	0	1	0	0	0	0.83	100.00	30	0	0	30	0	0	0	2.38	100.00	4-Feb-24
PAKISTAN	1118	0	0	545	0	0	0	11.89	94.10	19613	6	0	19070	0	195	0	20.05	84.43	4-Feb-24
PALESTINE	1	0	0	0	0	0	0	0.50	100.00	28	0	0	22	0	1	0	1.35	96.43	4-Feb-24
QATAR	0	0	0	0	0	0	0	0.00		17	0	0	11	0	4	0	3.91	70.59	28-Jan-24
SAUDI ARABIA	15	0	0	0	0	0	0	1.87	93.33	301	0	0	278	0	0	0	3.60	95.68	4-Feb-24
SOMALIA	24	0	0	0	0	0	0	2.79	95.83	417	0	0	404	5	0	0	4.64	93.76	4-Feb-24
SUDAN	16	0	0	0	0	0	0	0.76	100.00	473	0	0	399	0	24	4	2.28	76.53	4-Feb-24
SYRIA	29	0	0	0	0	0	0	3.90	86.21	332	0	0	330	0	0	0	4.27	96.69	3-Feb-24
TUNISIA	1	0	0	0	0	0	0	0.36	100.00	95	0	0	95	0	0	0	3.20	68.42	3-Feb-24
U.A.E.	0	0	0	0	0	0	0	0.00		67	0	0	52	0	4	4	4.54	88.06	31-Jan-24
YEMEN	104	0	0	0	0	0	0	6.80	89.42	1329	0	0	1162	6	22	11	8.32	88.19	3-Feb-24
EMR POL	1943	0	0	780	0	0	0	6.94	92.74	32783	12	0	31703	12	360	33	11.24	87.57	

* 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

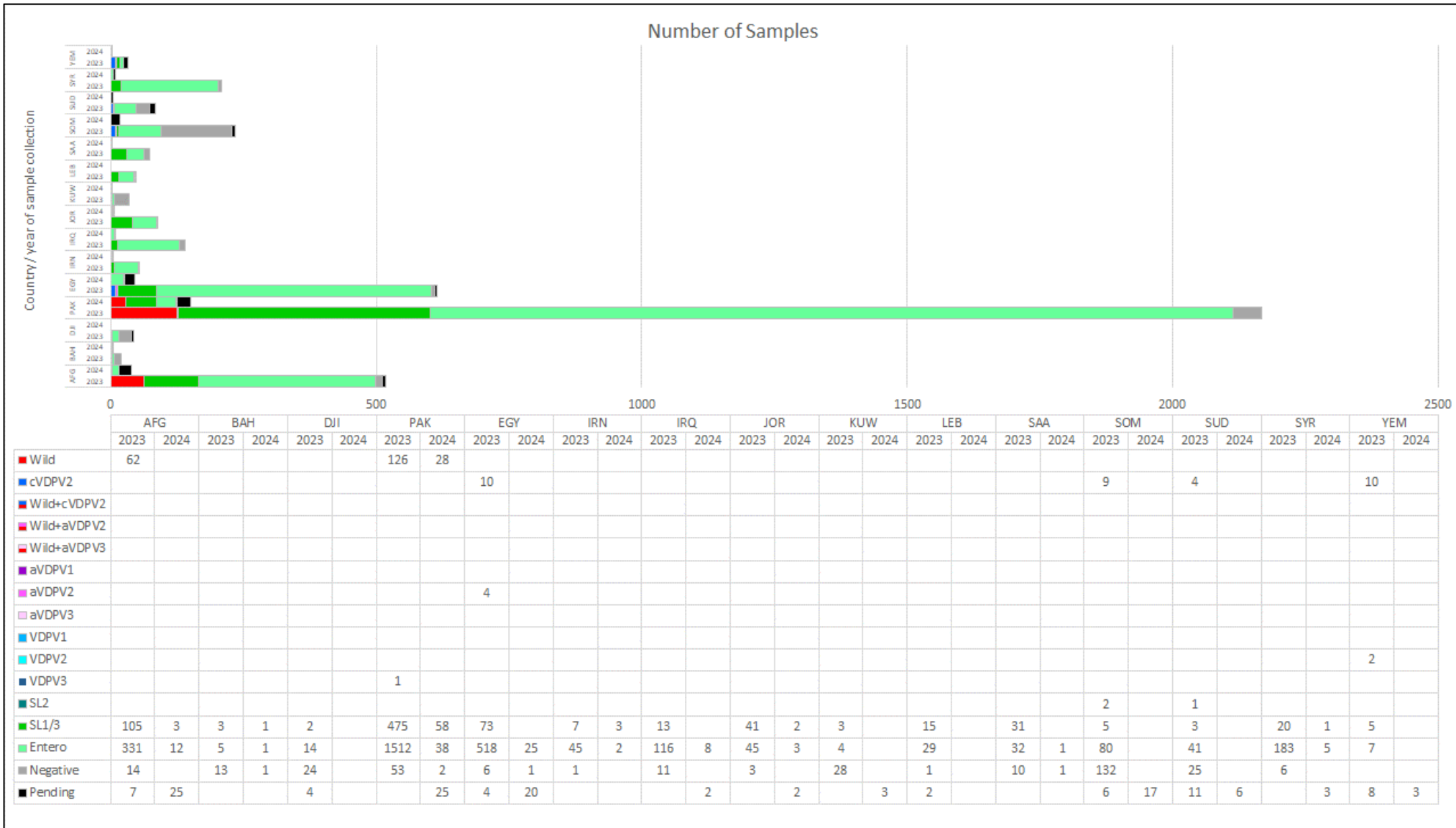
EMR Polio Bulletin - Issue No. 1322, Week 05 (ending on 04/02/2024)

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	339	11		20	133	91	3		6						7					2	10%	100%	100%	100%	4-Feb-24
Bahrain	NPL Oman / CDC																									28-Jan-24
Djibouti	NPL Kenya / CDC	2					2																			4-Feb-24
Egypt	RRL Egypt	107	1			33	50	23								1						2%	97%	100%	100%	1-Feb-24
Iran	NPL Iran / CDC	74	1			62	9	2		1						1						0%	98%	100%	100%	3-Feb-24
Iraq	NPL Iraq, RRL Egypt	70	1		8	21	39	1		1												26%	100%	100%	100%	2-Feb-24
Jordan	NPL Jordan, RRL Egypt	3				3																0%	100%		100%	4-Feb-24
Kuwait	RRL Kuwait / RIVM	8			1	2	4	1														12%	100%		100%	4-Feb-24
Lebanon	NPL Syria, RRL Egypt	4						4																		30-Jan-24
Libya	RRL Tunisia / RIVM	2					2																			27-Jan-24
Morocco	NPL Morocco, RRL Tunisia	9				5	4															0%	100%		100%	2-Feb-24
Oman	NPL Oman / CDC	1				1																0%	100%		100%	28-Jan-24
Pakistan	RRL Pakistan	1109	74		51	466	498	18		42						59						7%	100%	100%	100%	4-Feb-24
Palestine & UNRWA		1					1																			4-Feb-24
Qatar	NPL Oman / CDC																									28-Jan-24
Saudi Arabia	NPL Saudi Arabia / CDC	3				3																0%	100%		100%	25-Jan-24
Somalia	NPL Kenya / CDC	24					8	16																		4-Feb-24
Sudan	NPL Sudan / RRL Egypt																									14-Apr-23
Syria	NPL Syria / RRL Egypt	15					10	5														0%				30-Jan-24
Tunisia	RRL Tunisia	1						1																		27-Jan-24
U.A.E	NPL Oman / CDC																									28-Jan-24
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt																									3-Feb-24
Total EMR 2024		1772	88		80	729	718	74		50						68					2	7%	100%	100%	100%	
Total EMR 2023		31948	1002	81	4469	26252	62	76	12	655			8	11		764			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

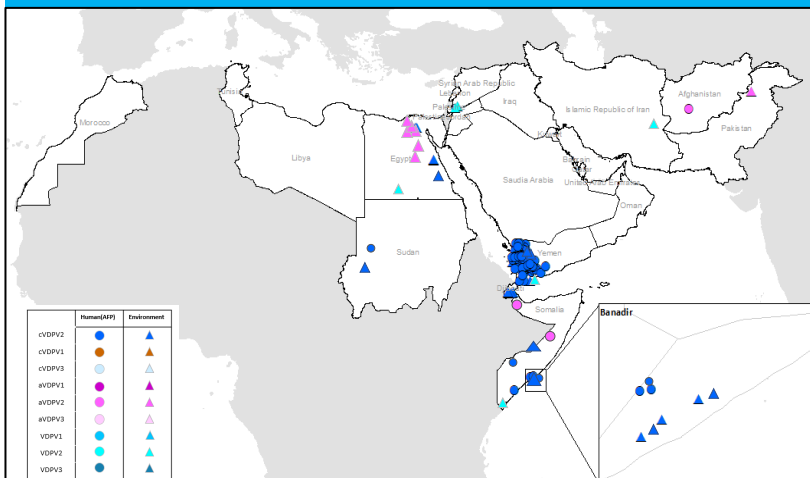
EMR Polio Bulletin - Issue No. 1322, Week 05 (ending on 04/02/2024)



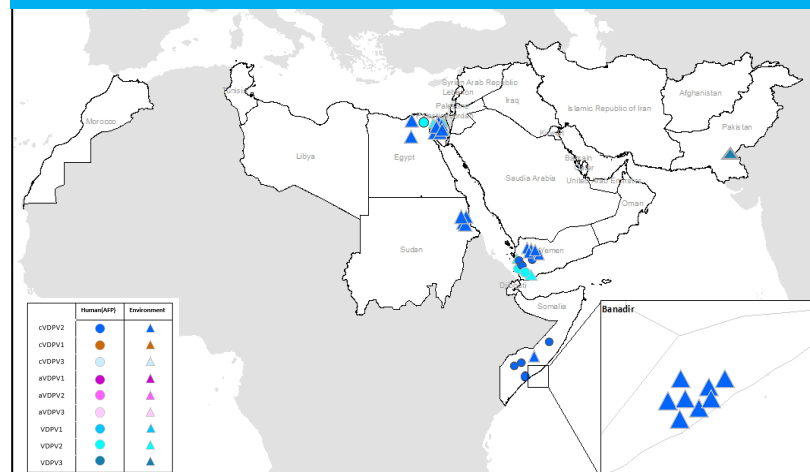
VDPVs isolations by Source and Country

EMR Polio Bulletin - Issue No. 1322 Week 05 (ending on 04/02/2024)

VDPV Isolates, EMR countries, 2022



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)									
		2018	2019	2020	2021	2022	2023	Most recent	2018	2019	2020	2021	2022	2023	Most recent	2018	2019	2020	2021	2022	2023	Most recent	2018	2019	2020	2021	2022	Most recent	
cVDPV2	Afghanistan			307	43			09-07-21										174	40			23-06-21							
	Djibouti																		5	12			22-05-22						
	Egypt																		12	6	10		31-12-23						
	Iran																		3	1			20-02-21						
	Pakistan		22	135	8			23-04-21									38	135	35				11-08-21						
	Somalia	6	3	14	1	5	5	16-09-23	3	1	11		6	3	03-08-23	19	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	4		30-11-23			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	7						07-09-18	7						30-06-18	12						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	2	1						03-02-19						
	Yemen				3			01-11-21				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						
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																												
	Yemen						2	11-11-23											3	2				27-05-23					
VDPV3	Pakistan																		1				14-02-23						

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)