



EMR Polio Bulletin

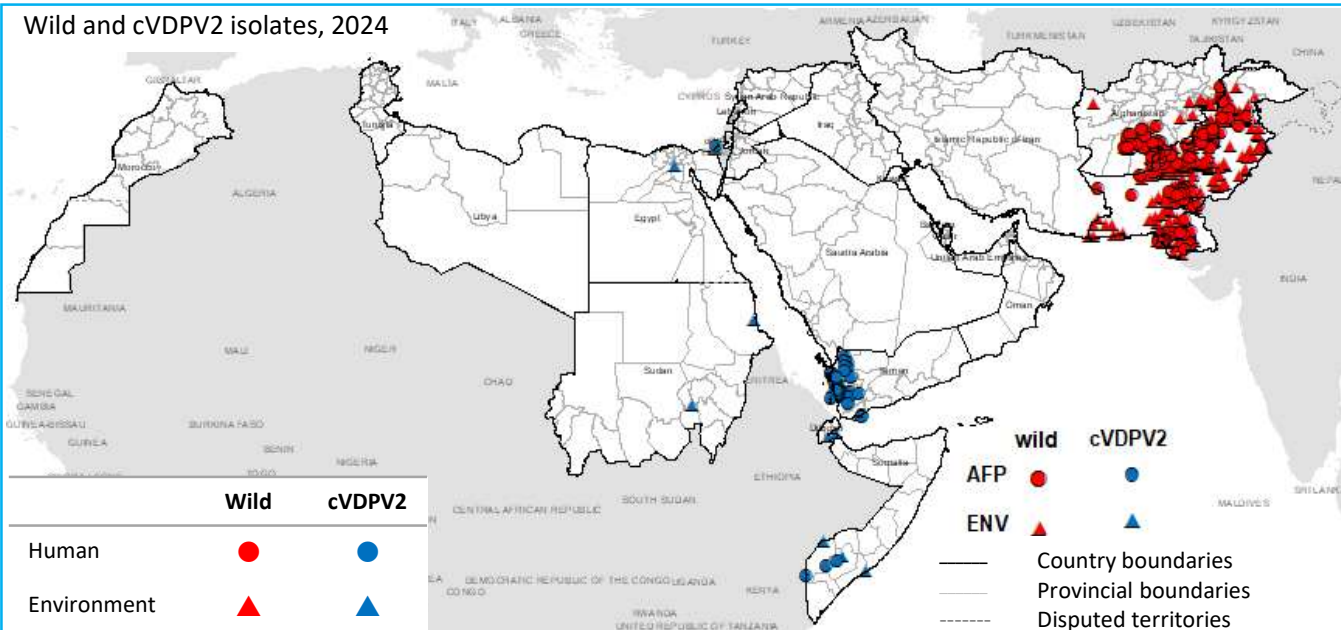
World Health Organization – Regional Office for Eastern Mediterranean Issue No. 1368, Week 51 (ending on 22/12/2024)

Highlights

	2023	2024
 Children Paralyzed by polio	12 cases of Wild Polio 1 - 06 in Afghanistan - 06 in Pakistan	89 cases of Wild Polio 1 - 25 in Afghanistan - 64 in Pakistan
	16 cases of cVDPV2 - 08 in Somalia - 08 in Yemen	39 cases of cVDPV2 - 03 in Somalia - 35 in Yemen - 01 in Occupied Palestinian Territory
	Zero cVDPV1 cases	Zero cVDPV1 cases
 Sewage water sampling	188 samples Wild Polio 1 - 62 in Afghanistan - 126 in Pakistan	650 samples Wild Polio 1 - 100 in Afghanistan - 550 in Pakistan
	41 samples cVDPV2 - 11 in Egypt - 16 in Yemen - 09 in Somalia - 05 in Sudan	34 sample cVDPV2 - 3 in Djibouti - 2 in Egypt - 3 in Somalia - 2 in Sudan - 7 in Yemen - 17 in Occupied Palestinian Territory

Classification of EMR countries by type of poliovirus circulation

Wild and cVDPV2 isolates, 2024



Highlights of the week

Wild Poliovirus

- One new WPV1 case was reported this week from Pakistan. The new case is from Jacobabad district of Sindh province with a date of onset of October 24, 2024. The total WPV1 case count for 2024 to date is 89 (25 from Afghanistan and 64 from Pakistan). In 2023, the total case count remains at 12 (6 from Afghanistan and 6 from Pakistan).
- Twenty new WPV1 environmental samples (ES) were reported this week: 11 from Pakistan and 9 from Afghanistan. In Pakistan, the ES were collected from Balochistan province (1 each from Sibi, Noshki, Lasbela, Khuzdar, Gwadar, Dukki, and Hub districts), Khyber Pakhtunkhwa province (2 from Bannu and 1 from Dera Ismail Khan districts), and Punjab province (1 from Lahore), with collection dates ranging between 18th and 30th November 2024. In Afghanistan, the samples were collected from Helmand province (1 each from Nahr-e-Saraj and Lashkargah), Kandahar province (4 from Kandahar city/district), and 1 each from Laghman province (Mehtarlam District), Nangarhar province (Behsud District), and Uruzgan (Tirinkot District), with collection dates ranging between 23rd and 25th November 2024. The total ES count to date in 2024 is 650 (100 from Afghanistan and 550 from Pakistan), compared to 188 in 2023 (62 from Afghanistan and 126 from Pakistan).

Vaccine derived poliovirus (VDPV)

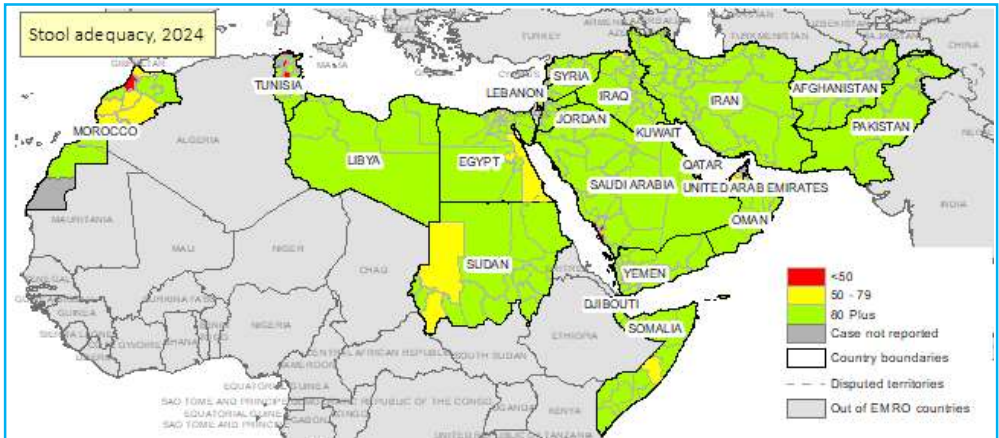
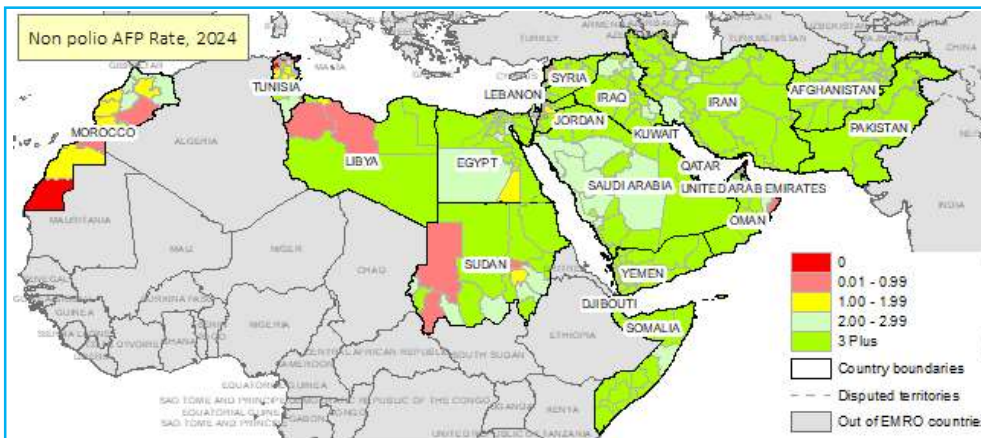
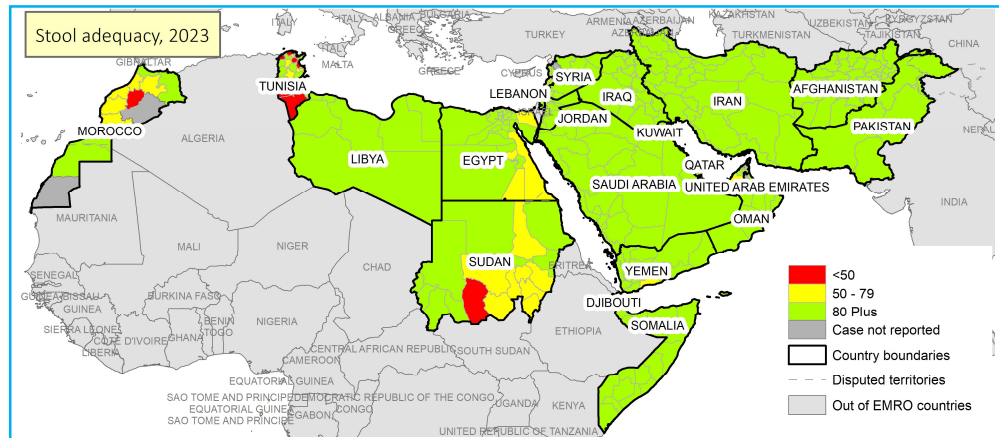
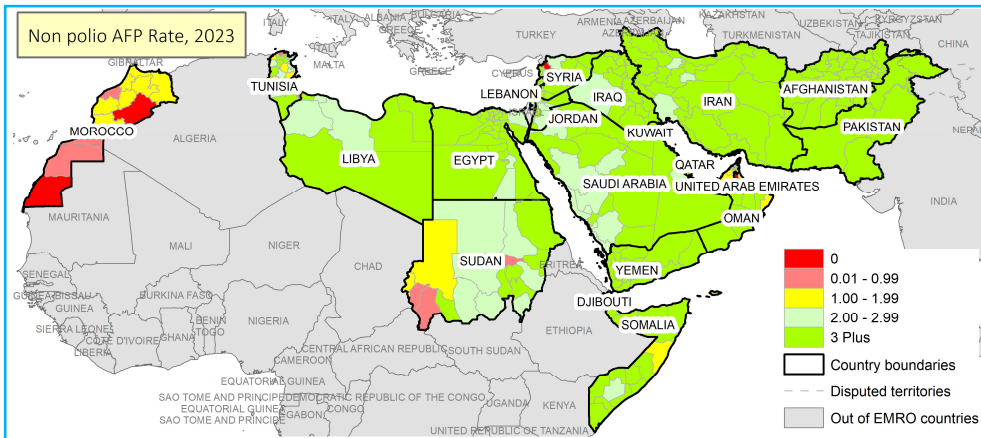
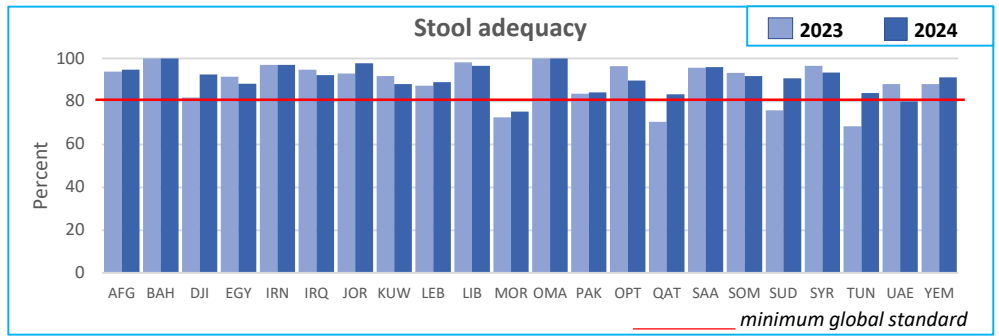
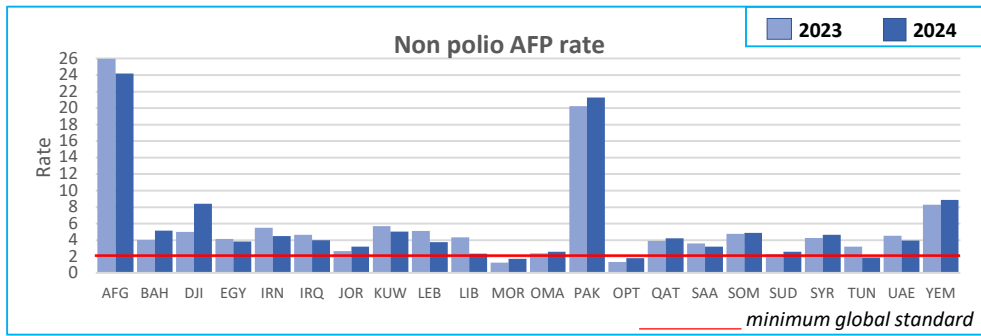
- No new cVDPV cases reported this week. The cVDPV2 cases count in 2024 to date remains 39 (35 from Yemen, 3 from Somalia, and 1 from Occupied Palestinian Territory). In 2023, the count remains 16 (8 each from Somalia and Yemen)
- No new cVDPV2 positive ES reported this week. The cVDPV2 positives ES in 2024 to date is 34 (17 from the Occupied Palestinian Territory, 7 from Yemen, 3 each from Somalia and Djibouti, and 2 each from Sudan and Egypt). In 2023, the count remains 41 (16 from Yemen, 11 from Egypt, 9 from Somalia, and 5 from Sudan).

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

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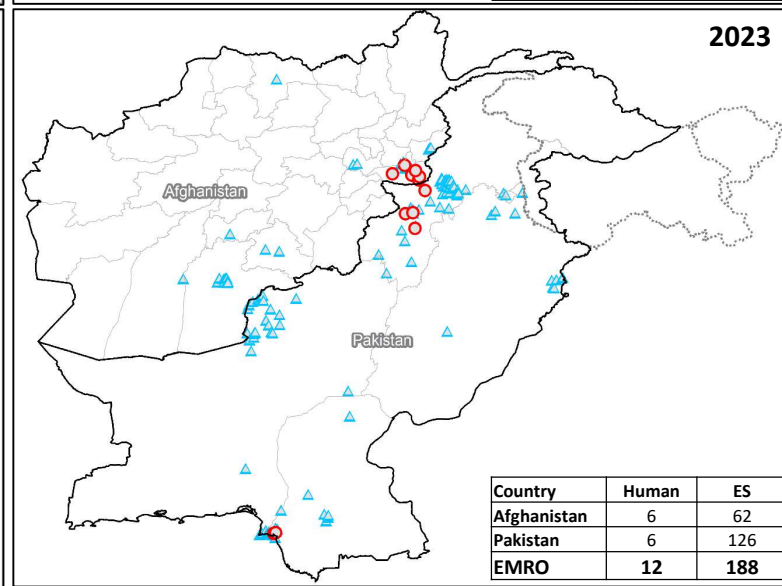
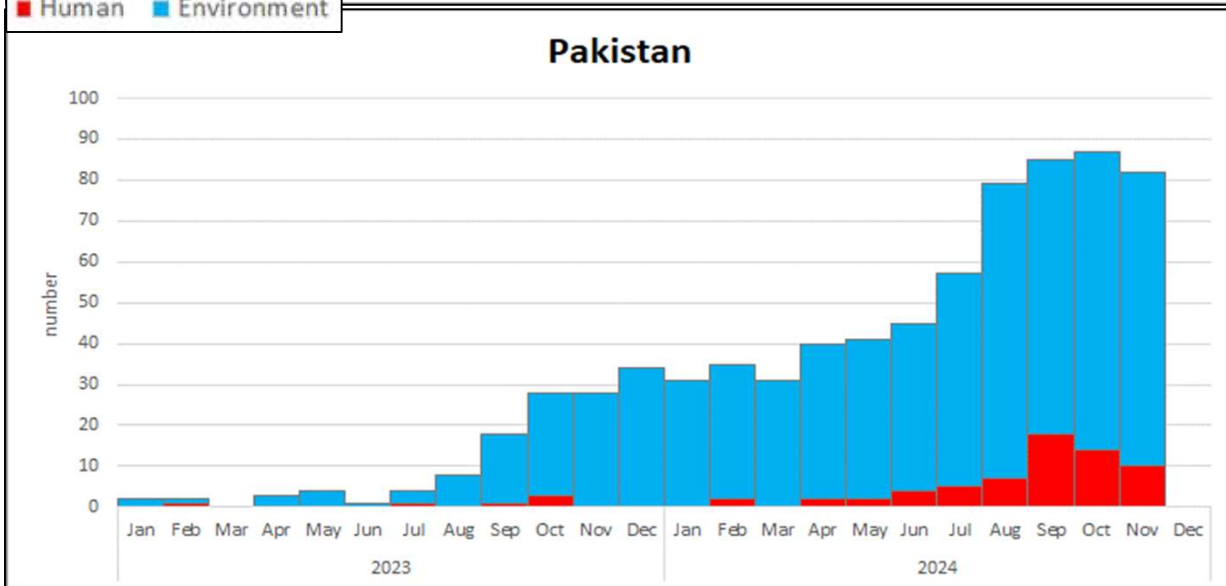
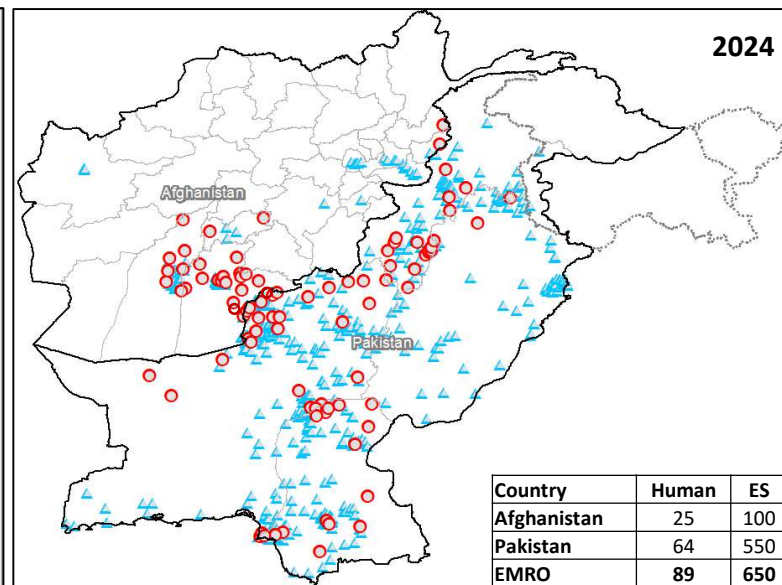
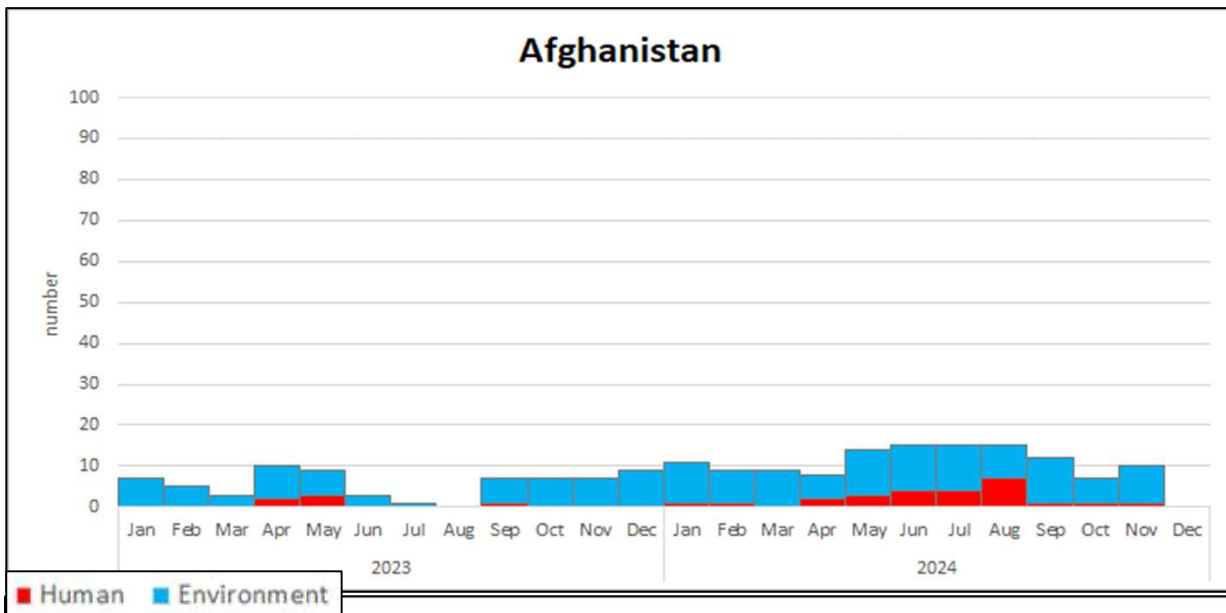
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Key surveillance indicators



WPV1 Positive isolates from Afghanistan and Pakistan by source

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For further details on Wild Poliovirus click: [line-list of WPV isolates](#)

Virus isolation by country, last 12 months (22 December 2023, to 22 December 2024)

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Source / Virus type	AFG	DJI	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	25		64		3	1	36	129
Wild	25		64					89
cVDPV2					3		36	39
VDPV2						1		1
Environment	105	3	550	5	3	5	7	678
Wild	105		550					655
cVDPV2		3		5	3	2	7	20
VDPV2						3		3
Total	130	3	614	5	6	6	43	807

Note: Viruses isolated from 'other' sources (example healthy children) are not included in this analysis; they are shown in page No. (9)

Confirmed Wild Polio 1 Cases by month of onset

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Country	Total year 2022	Total year 2023	22 Dec.		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
			2023	2024	2024												
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Afghanistan	2	6	6	25	1	1	0	2	3	4	4	7	1	1	1		05-Nov-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	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	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			
Pakistan	20	6	6	64	0	2	0	2	2	4	5	7	18	14	10		29-Nov-24
Occupied Palestinian Territory ****	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	0			
Sudan	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				
United Arab Emirates	0	0	0	0	0	0	0	0	0	0	0	0	0				
Yemen	0	0	0	0	0		0	0									
EMR	22	12	12	89	1	3	0	4	5	8	9	14	19	15	11	0	29-Nov-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	5470	25	0	5218	0	2	0	24.21	95	5856	6	0	5850	0	0	2	25.98	94	22-Dec-24		
Bahrain	15	0	0	5	0	7	0	5.15	100	12	0	0	12	0	0	0	4.01	100	22-Dec-24		
Djibouti	27	0	0	20	0	2	2	8.42	93	22	0	0	22	0	0	0	4.99	82	22-Dec-24		
Egypt	1570	0	0	1369	0	28	1	3.81	88	1714	0	0	1714	0	0	0	4.16	91	19-Dec-24		
Iraq	701	0	0	650	0	4	0	4.00	92	820	0	0	820	0	0	0	4.66	95	20-Dec-24		
Islamic Republic of Iran	925	0	0	913	0	1	0	4.48	97	1150	0	0	1150	0	0	0	5.49	97	21-Dec-24		
Jordan	141	0	0	129	0	0	0	3.21	98	116	0	0	116	0	0	0	2.68	93	19-Dec-24		
Kuwait	42	0	0	40	0	0	0	5.05	88	49	0	0	49	0	0	0	5.69	92	12-Dec-24		
Lebanon	64	0	0	54	0	5	0	3.75	89	79	0	0	79	0	0	0	5.11	87	01-Dec-24		
Libya	60	0	0	50	0	1	1	2.37	97	113	0	0	113	0	0	0	4.32	98	03-Dec-24		
Morocco	186	0	0	93	0	45	1	1.74	75	150	0	0	150	0	0	0	1.28	73	15-Dec-24		
Oman	33	0	0	31	0	0	0	2.58	100	30	0	0	30	0	0	0	2.38	100	19-Dec-24		
Pakistan	20397	64	0	19379	0	140	76	21.27	84	19773	6	0	19765	0	2	4	20.22	84	22-Dec-24		
Occupied Palestinian Territory	39	0	0	20	1	6	0	1.82	90	28	0	0	28	0	0	0	1.35	96	15-Dec-24		
Qatar	18	0	0	15	0	0	0	4.23	83	17	0	0	17	0	0	0	3.91	71	22-Dec-24		
Saudi Arabia	250	0	0	185	0	2	0	3.23	96	301	0	0	301	0	0	0	3.60	96	15-Dec-24		
Somalia	442	0	0	425	3	0	0	4.88	92	433	0	0	425	8	0	0	4.75	93	22-Dec-24		
Sudan	536	0	0	339	1	48	28	2.60	91	473	0	0	473	0	0	0	2.28	76	22-Dec-24		
Syrian Arab Republic	352	0	0	327	0	1	0	4.63	93	332	0	0	332	0	0	0	4.27	97	21-Dec-24		
Tunisia	56	0	0	45	0	0	0	1.88	84	95	0	0	95	0	0	0	3.20	68	22-Dec-24		
United Arab Emirates	55	0	0	47	0	2	0	3.94	80	67	0	0	67	0	0	0	4.54	88	12-Dec-24		
Yemen	1442	0	1	583	35	508	493	8.86	91	1331	0	0	1322	9	0	0	8.27	88	12-Dec-24		
EMR POL	32821	89	1	29937	40	802	602	11.42	88	32961	12	0	32930	17	2	6	11.31	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)

For further details on Contacts click: [detail of contact samples](#)

Laboratory investigation of AFP cases with paralysis onset in 2024

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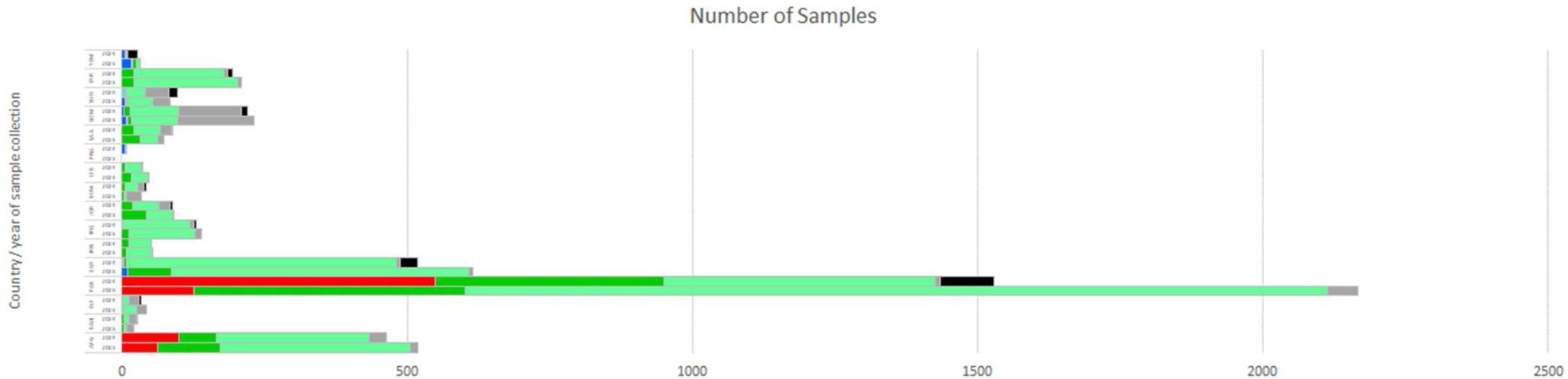
Country	Polio laboratories ITD / nucleotide Sequencing Sequencing performed by CDC and RIVM laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results											Indicators				Latest report Date			
			Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3		Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD							
			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	5436	284	27	757	4177	145	3	18*	189						205							11%	94%	100%	90%	22-12-24
Bahrain	PNL Oman / CDC	15	1		1	13				1						1							7%	100%	100%	93%	19-12-24
Djibouti	PNL Kenya / CDC	26			3	17		6															15%	25%		90%	13-12-24
Egypt	RRL Egypt	1491	13	1	155	1240	76	6		7						8		1					9%	95%	100%	99%	19-12-24
Iran	PNL Iran / CDC	967	10		13	921	23			3						9							1%	100%	100%	99%	21-12-24
Iraq	PNL Iraq, RRL Egypt	280	10		34	200		36		3						8							13%	100%	100%	99%	13-12-24
Jordan	PNL Jordan, RRL Egypt	137	6		24	106		1		1						1			4	1			16%	90%	60%	99%	22-12-24
Kuwait	RRL Kuwait / RIVM	44	2		1	40	1													2			1%	93%		100%	19-12-24
Lebanon	NPL Syria RRL Egypt	60			1	57		2															2%	100%			30-11-24
Libya	RRL Tunisia / RIVM	49			1	48																	2%	100%		45%	20-12-24
Morocco	PNL Morocco, RRL Tunisia	153			2	138		13															1%	99%		97%	20-12-24
Oman	PNL Oman / CDC	33	1			31	1									1							5%	78%	100%	100%	19-12-24
Pakistan	RRL Pakistan / CDC	19849	776	44	2825	15706	430	49	48*	467						534							11%	95%	100%	96%	22-12-24
Palestine & UNRWA		41	2	1	8	24		7					1	1				1	1				25%	44%	100%	85%	15-12-24
Qatar	RRL Oman / CDC	17	1			16										1							0%	100%	100%	100%	19-12-24
Saudi Arabia	PNL Saudi Arabia / CDC	219	4		9	194		12		2						1			1				4%	91%	75%	100%	05-12-24
Somalia	PNL Kenya / CDC	434	18		56	354	1	5		7				9		7							13%	3%		90%	13-12-24
Sudan	PNL Sudan, RRL Egypt	444	7		90	317	29			2			1	1		1		2					20%	94%	100%	23%	19-12-24
Syria	PNL Syria, RRL Egypt	337	6		19	303		9															5%	99%			30-11-24
Tunisia	RRL Tunisia	61			4	54	3																5%	100%		98%	20-12-24
U.A.E	PNL Oman / CDC	45			3	42																	5%	49%		22%	19-12-24
Yemen	PNLs Oman, Jordan & Kenya, RRL Egypt	617	42	2	109	464		1		5			1	34**		6							17%	13%	95%	14%	19-12-24
Total EMR 2023		30755	1183	75	4115	24462	709	150	89	687			3	45**		783		4	6	3			11%	92%	100%	92%	
Total EMR 2024		32172	1012	81	5433	26509		30	12	656			8	22		766		4	3	1			12%	90%	100%	92%	

* In 2024 – Twenty-Two WPV1 cases (7 from Afghanistan and 15 from Pakistan) are confirmed due to positive contact (Index cases were 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		PNA		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	100					126	549																								
cVDPV2					1				11	2											6			9	3	5	2			16	6	
cVDPV2+VDPV1																															1	
Wild+cVDPV2																																
Wild+VDPV1								1																								
Wild+aVDPV2																																
Wild+aVDPV3																																
aVDPV1																																
aVDPV2																																
cVDPV1																																
aVDPV3																																
VDPV1										1																						
VDPV2																																
SL2																									2	1	1	2			1	
SL1/3	111	65	3	3	2	1	475	401	76	5	7	12	13	2	42	18	3	6	17	5			31	21	5	10	3	1	20	21	7	4
Entero	332	269	5	10	23	10	1512	475	521	473	45	40	116	117	46	48	4	22	29	29			32	47	81	85	44	33	183	157	7	
Negative	14	29	13	13	19	18	53	9	6	6	1		11	7	3	19	28	11	1	3			1	10	19	134	111	32	42	6	8	
Pending				1		4		93		32				4		5		3							1		10		14		8	17

For further details on Environmental Samples Results click: [Detail of environmental surveillance samples](#)

Important links

EMR Polio Bulletin - Issue No. 1367, Week 50 (ending on 15/12/2024)

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)