

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

- 92 cases of Wild Polio 1
 - 25 in Afghanistan
 - 67 in Pakistan

- 39 cases of cVDPV2
 - 03 in Somalia
 - 35 in Yemen
 - 01 in Occupied Palestinian Territory

- 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

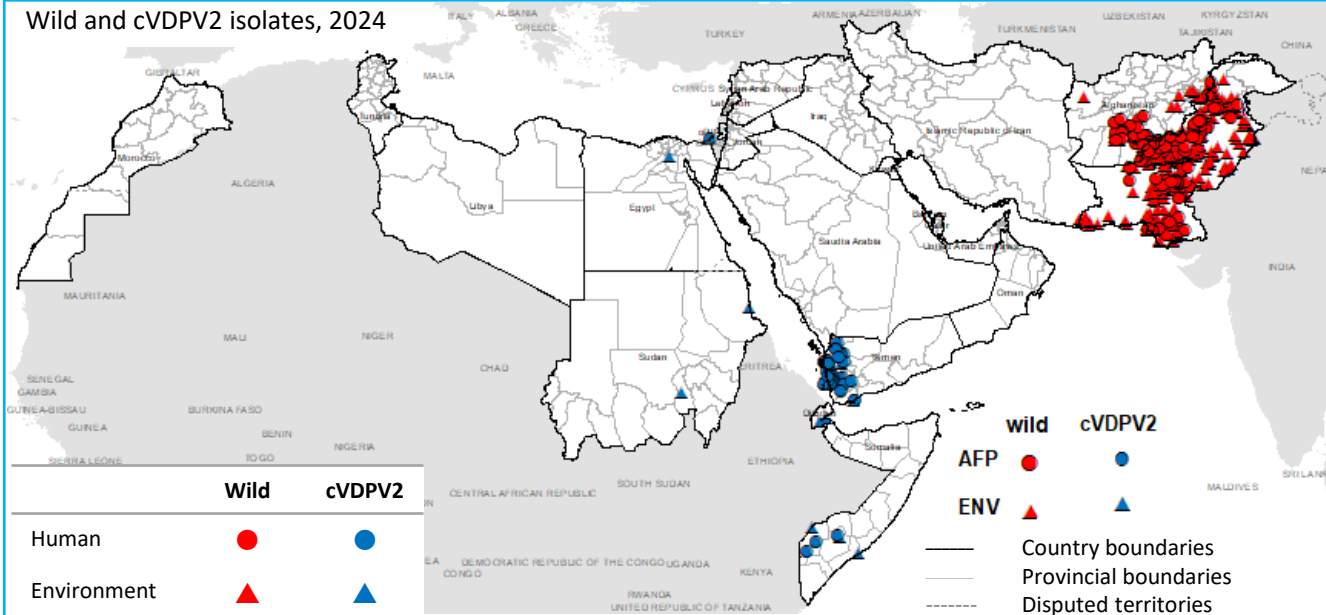
2024

- 691 samples Wild Polio 1
 - 100 in Afghanistan
 - 591 in Pakistan

- 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

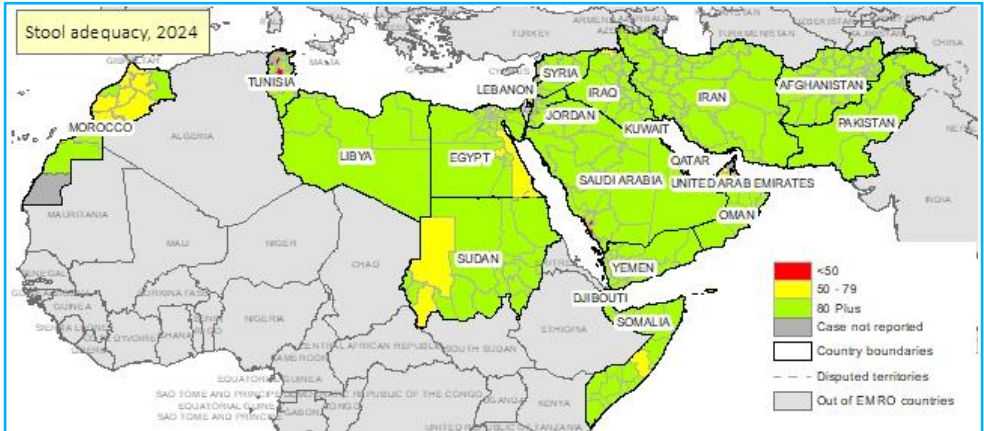
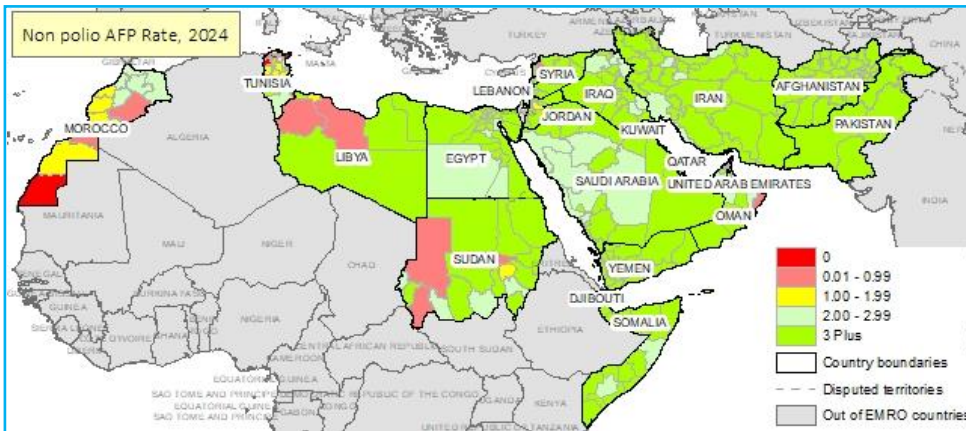
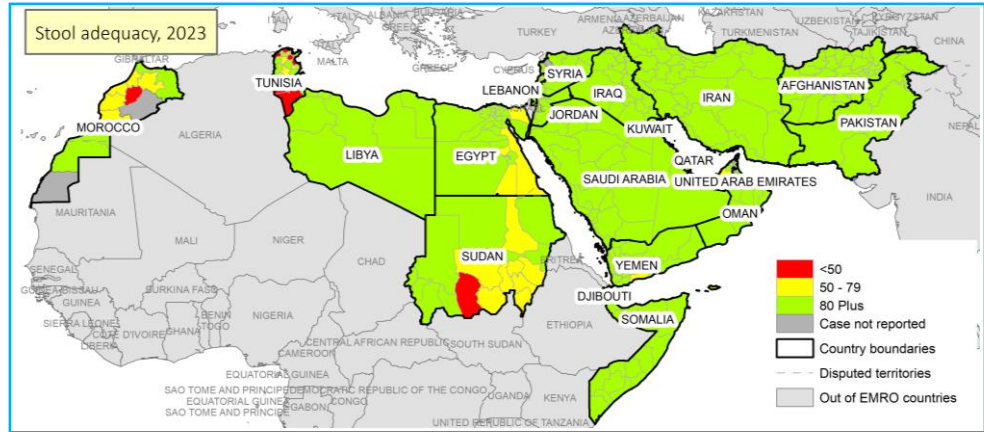
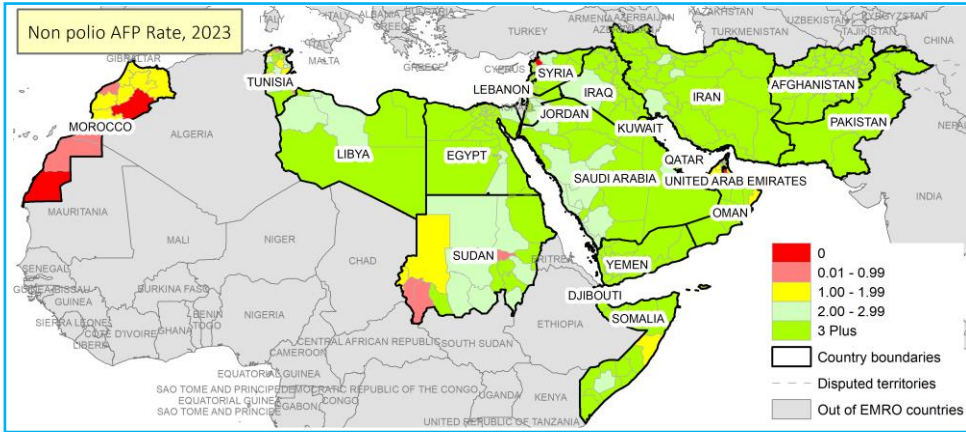
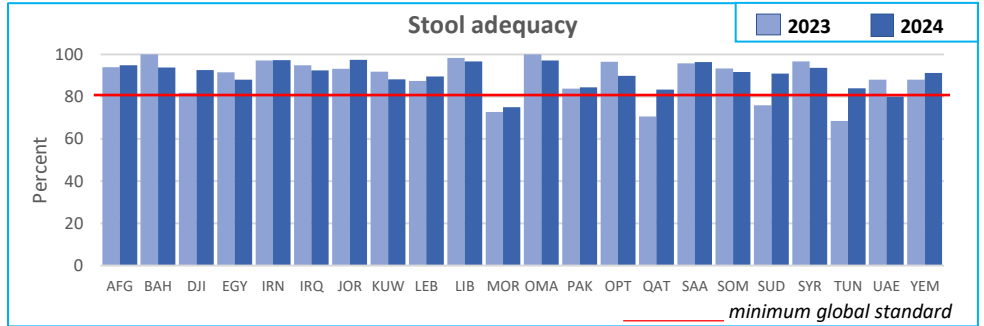
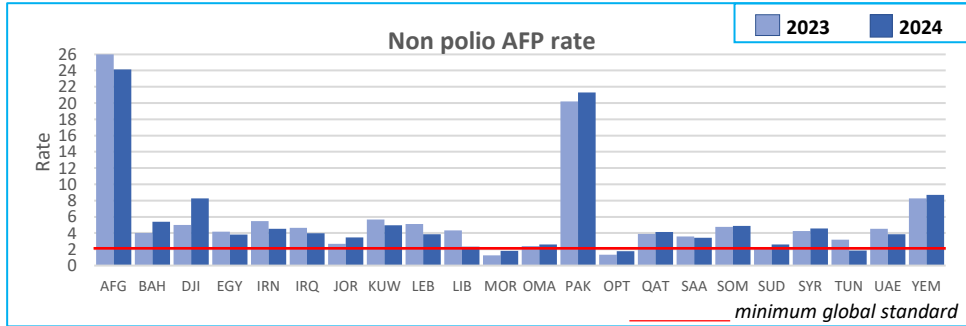
- Three new WPV1 cases were reported this week from Pakistan. The new cases are as follows: One each from Killa Abdullah district of Balochistan province, with date of onset on 16 November 2024; from Kashmore district of Sindh province, with date of onset on 12 December 2024; and from Tank district in Khyber Pakhtunkhwa province, with date of onset on 6 December 2024. The total WPV1 cases count for 2024 to date is 92 (25 from Afghanistan and 67 from Pakistan). In 2023, the total case count remains 12 (6 each from Afghanistan and Pakistan).
- Forty-one new WPV1 environmental samples (ES) were reported this week; all from Pakistan and distributed as follows: Twenty-three from Sindh province (4 Karachi East, 3 from Hyderabad, 2 each from Kambar, Karachi Keamari, Karachi South, and Sukkur, and 1 each from Jacobabad, Jamshoro, Karachi Central, Karachi Korangi, Karachi Malir, Mirpurkhas, Shaheed Benazirabad, and Sujawal districts); Eight from Punjab province (4 from Lahore, 2 from Rawalpindi, and 1 each from Dera Ghazi Khan and Multan districts); Seven from Balochistan province (2 each from Chaman and Quetta, and one each from Loralai, Pishin, and Zhob districts); Two from Khyber Pakhtunkhwa province (one each from Bajour and Peshawar districts); and 1 from Capital development authority district of Islamabad. The collection dates of the positive samples range from 2 – 11 December 2024.
- The total ES count to date in 2024 is 691 (100 from Afghanistan and 591 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)

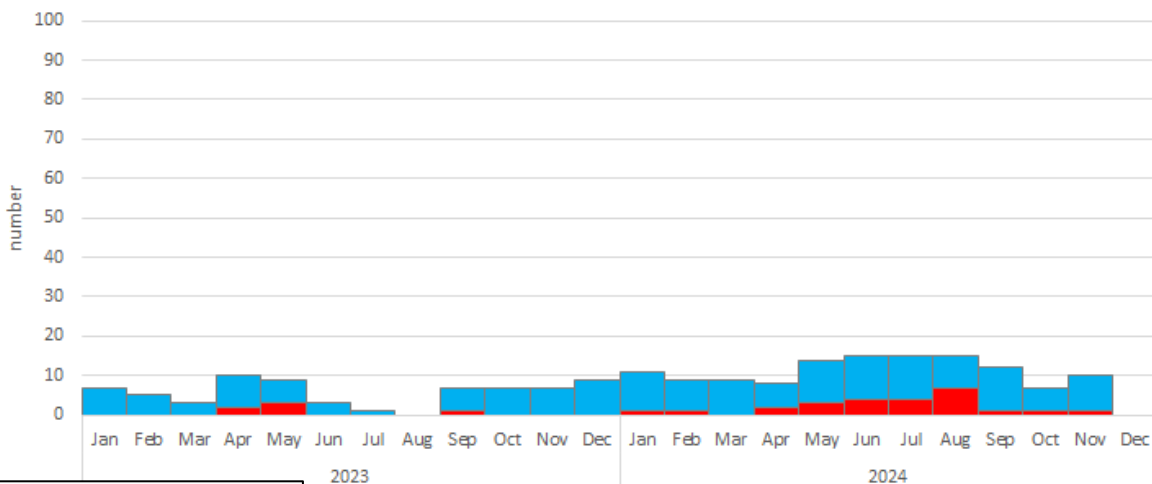
Key surveillance indicators



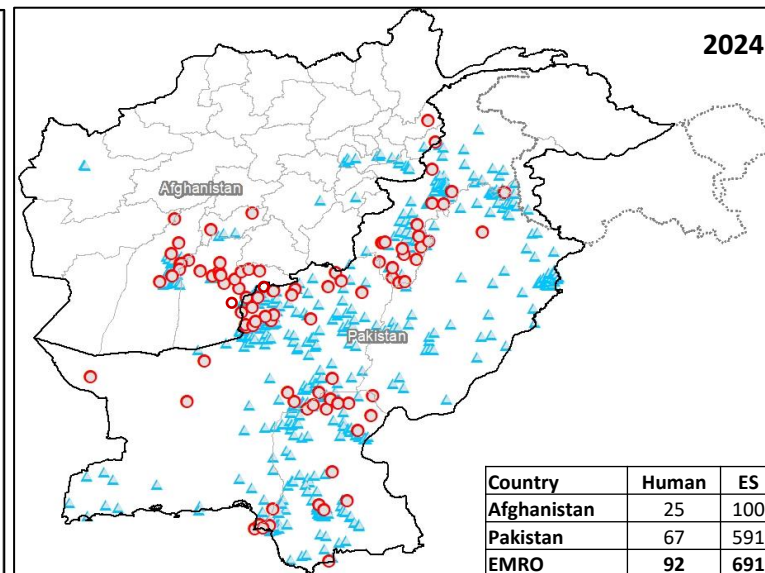
WPV1 Positive isolates from Afghanistan and Pakistan by source

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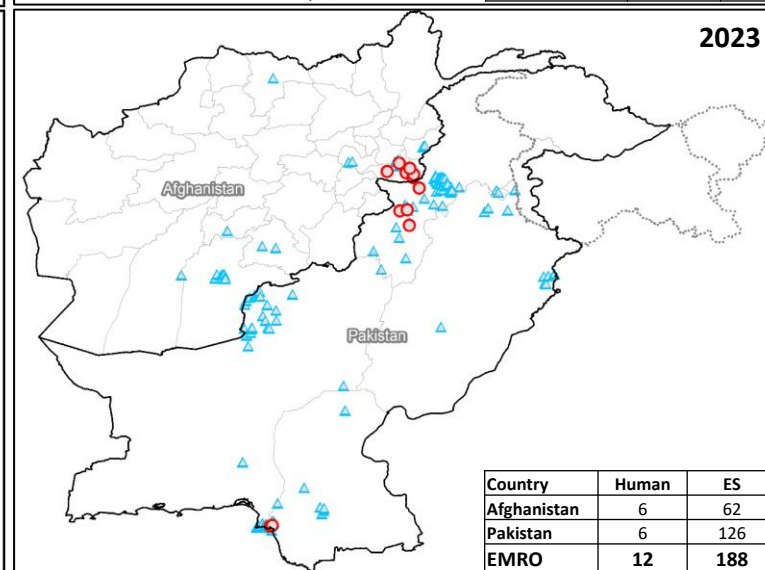
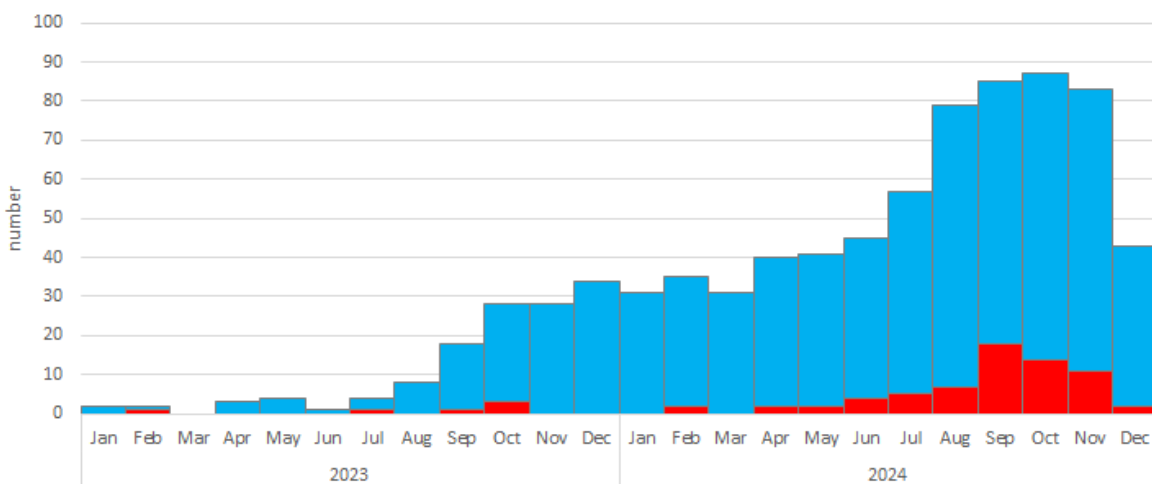
Afghanistan



■ Human ■ Environment



Pakistan



Virus isolation by country, last 12 months (29 December 2023, to 29 December 2024)

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Source / Virus type	AFG	DJI	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	25		67		3	1	35	131
Wild	25		67					92
cVDPV2					3		35	38
VDPV2						1		1
Environment	100	3	591	5	3	5	6	713
Wild	100		590					690
Wild+VDPV1			1					1
cVDPV2		1		5	3	2	6	17
cVDPV2-n		2						2
VDPV2						3		3
Total	125	3	658	5	6	6	41	844

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	29 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	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	0	0	0	0		0		
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	20	6	6	67	0	2	0	2	2	4	5	7	18	14	11	2	08-Dec-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	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	92	1	3	0	4	5	8	9	14	19	15	12	2	08-Dec-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	5557	25	0	5313	0	2	0	24.12	95	5856	6	0	5850	0	0	2	25.98	94	29-Dec-24		
Bahrain	16	0	0	5	0	8	0	5.38	94	12	0	0	12	0	0	0	4.01	100	29-Dec-24		
Djibouti	27	0	0	24	0	0	0	8.26	93	22	0	0	22	0	0	0	4.99	82	26-Dec-24		
Egypt	1610	0	0	1417	0	28	1	3.84	88	1714	0	0	1714	0	0	0	4.16	91	26-Dec-24		
Iraq	712	0	0	650	0	5	0	3.99	92	820	0	0	820	0	0	0	4.66	95	26-Dec-24		
Islamic Republic of Iran	956	0	0	918	0	0	0	4.54	97	1150	0	0	1150	0	0	0	5.49	97	28-Dec-24		
Jordan	155	0	0	133	0	0	0	3.46	97	116	0	0	116	0	0	0	2.68	93	24-Dec-24		
Kuwait	42	0	0	40	0	0	0	4.95	88	49	0	0	49	0	0	0	5.69	92	25-Dec-24		
Lebanon	67	0	0	59	0	4	0	3.86	90	79	0	0	79	0	0	0	5.11	87	29-Dec-24		
Libya	60	0	0	50	0	1	1	2.32	97	113	0	0	113	0	0	0	4.32	98	03-Dec-24		
Morocco	196	0	0	100	0	43	1	1.80	75	150	0	0	150	0	0	0	1.28	73	27-Dec-24		
Oman	34	0	0	32	0	0	0	2.61	97	30	0	0	30	0	0	0	2.38	100	24-Dec-24		
Pakistan	20826	67	0	19732	0	175	80	21.30	84	19773	6	0	19765	0	2	4	20.22	84	29-Dec-24		
Occupied Palestinian Territory	39	0	0	22	1	5	0	1.79	90	28	0	0	28	0	0	0	1.35	96	29-Dec-24		
Qatar	18	0	0	15	0	0	0	4.14	83	17	0	0	17	0	0	0	3.91	71	29-Dec-24		
Saudi Arabia	268	0	0	188	0	0	0	3.41	96	301	0	0	301	0	0	0	3.60	96	29-Dec-24		
Somalia	450	0	0	430	3	0	0	4.87	92	433	0	0	425	8	0	0	4.75	93	29-Dec-24		
Sudan	544	0	0	339	1	63	32	2.59	91	473	0	0	473	0	0	0	2.28	76	29-Dec-24		
Syrian Arab Republic	355	0	0	342	0	2	0	4.58	94	332	0	0	332	0	0	0	4.27	97	28-Dec-24		
Tunisia	56	0	0	45	0	0	0	1.84	84	95	0	0	95	0	0	0	3.20	68	22-Dec-24		
United Arab Emirates	55	0	0	47	0	2	0	3.86	80	67	0	0	67	0	0	0	4.54	88	12-Dec-24		
Yemen	1442	0	1	583	35	538	523	8.68	91	1331	0	0	1322	9	0	0	8.27	88	08-Dec-24		
EMR POL	33485	92	1	30484	40	876	638	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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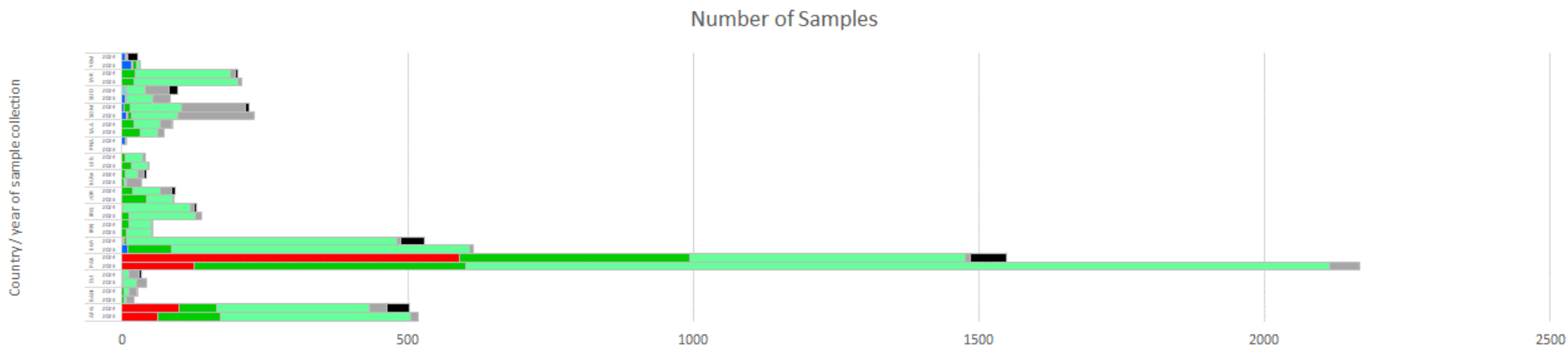
Country	Polio laboratories ITD / Necultiated Sequencing Sequencing performed by CDC and RIVM laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results										Indicators				Latest report Date			
			Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant pending sequence	NPEV by PCR	Non-EV	Pending ITD	% 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**
			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	5531	285	27	768	4264	155	3	18*	190						206						11%	94%	100%	91%	29-Dec-24
Bahrain	PNL Oman / CDC	15	1		1	13				1						1						7%	100%	100%	93%	23-Dec-24
Djibouti	PNL Kenya / CDC	27			3	21	1	2														13%	29%		92%	27-Dec-24
Egypt***	RRL Egypt	1538	13	1	156	1273	85	10		7						8		1				9%	95%	100%	99%	26-Dec-24
Iran	PNL Iran / CDC	987	10		14	935	27	1		3						9						1%	100%	100%	99%	28-Dec-24
Iraq	PNL Iraq, RRL Egypt	714	15		103	571	21	4		5						12						14%	100%	100%	97%	27-Dec-24
Jordan	PNL Jordan, RRL Tunisia	141	6		24	110		1		1								4	1			15%	91%	60%	99%	29-Dec-24
Kuwait	RRL Kuwait / RIVM	44	2		1	40		1											2			1%	93%		100%	26-Dec-24
Lebanon	Syria NPL, RRL Egypt	63	1		1	61																2%	100%			28-Dec-24
Libya	RRL Tunisia / RIVM	49			1	48																2%	100%		45%	22-Dec-24
Morocco	PNL Morocco, RRL Tunisia	163			3	149		11														2%	98%		97%	23-Dec-24
Oman	PNL Oman / CDC	34	1			31	2									1						5%	78%	100%	100%	23-Dec-24
Pakistan	RRL Pakistan / CDC	20254	785	44	2875	16091	394	40	49*	468						541						11%	95%	100%	96%	29-Dec-24
Palestine & UNRWA		45	2	1	11	31		1				1	1					1	1			26%	48%	100%	89%	15-Dec-24
Qatar	PNL Oman / CDC	17	1			16										1						0%	100%	100%	100%	23-Dec-24
Saudi Arabia	PNL Saudi Arabia / CDC	219	4		9	194		12		2						1			1			4%	91%	75%	100%	5-Dec-24
Somalia	PNL Kenya / CDC	450	18		56	360	4	12		7				9		7						13%	3%		90%	24-Dec-24
Sudan	PNL Sudan, RRL Egypt	444	7		90	317	29			2			1	1		1		2				20%	94%	100%	23%	26-Dec-24
Syria	PNL Syria, RRL Egypt	348	8		22	318																5%	99%			28-Dec-24
Tunisia	RRL Tunisia	61			4	54		3														5%	100%		98%	22-Dec-24
U.A.E	PNL Oman / CDC	50			3	42	5															5%	49%		22%	23-Dec-24
Yemen	PNLs Oman, Jordan & Kenya, RRL Egypt	617	42	2	109	464		1		5			1	34**		6						17%	13%	95%	14%	23-Dec-24
Total EMR 2024		31811	1201	75	4254	25403	723	102	92	691			3	45**		795		4	6	3		11%	92%	100%	93%	
Total EMR 2023		32172	1012	81	4533	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	590																									
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					
SL1/3	111	65	3	3	2	1	475	403	76	5	7	12	13	2	42	18	3	6	17	6			31	21	5	10	3	1	20	23	7	4	
Entero	332	269	5	10	23	10	1512	482	521	473	45	40	116	117	46	50	4	22	29	31			32	47	81	91	44	33	183	167	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		40		1		4		64		43		3		4		6		3						1		19	6		14		4		17

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)