

Highlights



Children
Paralyzed
by polio

2022

- 22 cases of Wild Polio 1
 - 02 in Afghanistan
 - 20 in Pakistan

- 168 cases of cVDPV2
 - 05 in Somalia
 - 162 in Yemen
 - 01 in Sudan

- Zero cVDPV1 cases

2023

- 7 cases of Wild Polio 1
 - 05 in Afghanistan
 - 02 in Pakistan

- 5 cases of cVDPV2
 - 03 in Somalia
 - 02 in Yemen

- Zero case of cVDPV1



Sewage
water
sampling

2022

- 59 samples Wild Polio 1
 - 22 in Afghanistan
 - 37 in Pakistan

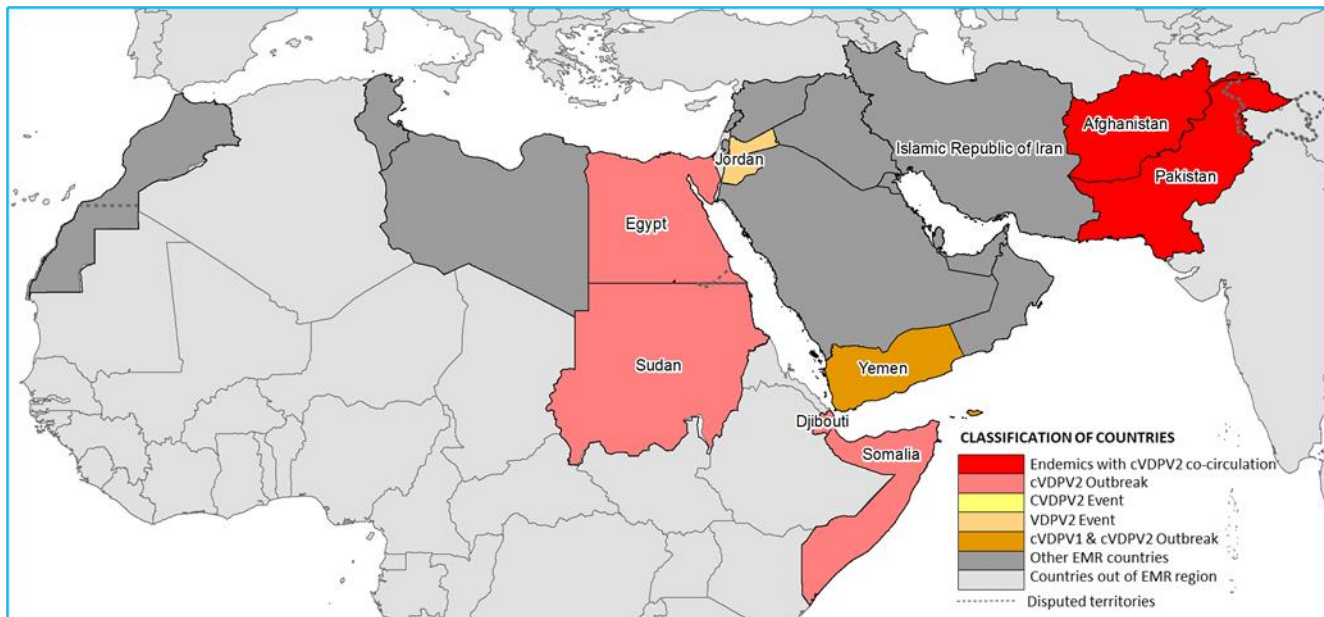
- 52 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 06 in Somalia
 - 01 in Sudan
 - 27 in Yemen

2023

- 55 samples Wild Polio 1
 - 33 in Afghanistan
 - 22 in Pakistan

- 10 samples of cVDPV2
 - 04 in Somalia
 - 03 in Yemen
 - 03 in Egypt

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

Wild Poliovirus

- No new WPV1 isolates reported this week. The WPV1 cases count in 2023 to date remains 7 (5 from Afghanistan and 2 from Pakistan) while in 2022, the WPV1 cases count remains to be 22 cases (2 from Afghanistan and 20 from Pakistan). While the positive WPV1 ES count in 2023 to date is 55 (33 in Afghanistan and 22 in Pakistan), while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

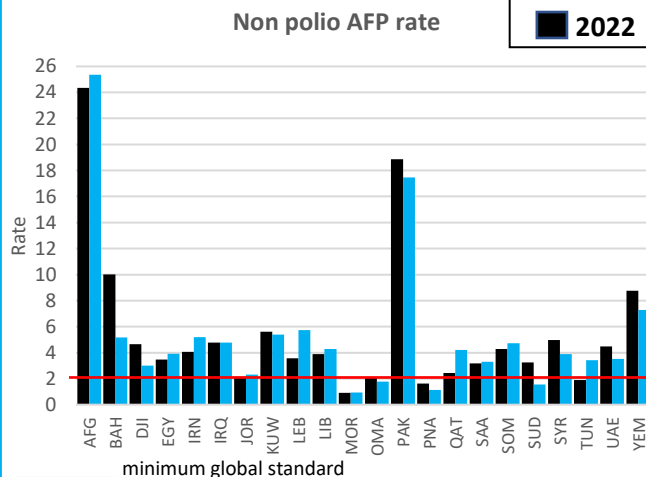
Vaccine derived poliovirus (VDPV)

- One new cVDPV2 case reported this week from Somalia. The new cVDPV2 case is from Heliwa district of Banadir province with date of onset 29th July 2023. In 2023 the count of cVDPV2 cases to date remains to be 5 (3 from Somalia and 2 from Yemen) and in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
- No new cVDPV2 positive environmental samples reported this week. The positive cVDPV2 ES count in 2023 to date is 10 (4 from Somalia, 3 from Egypt, and 3 from Yemen). In 2022, the count remains 52 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 27 in Yemen).

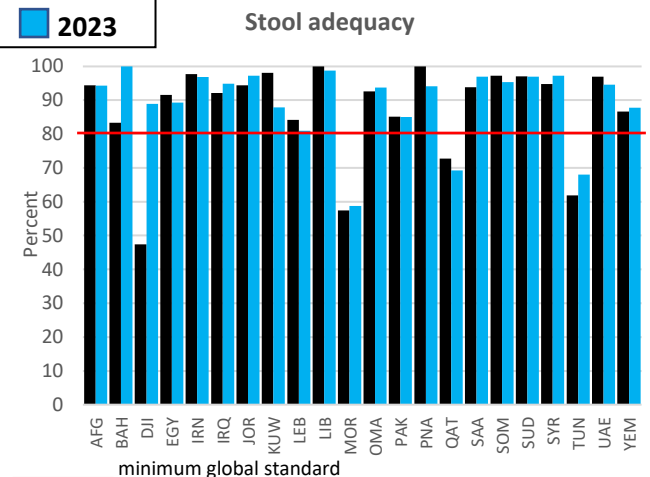
Events

- The AFP / Environment Surveillance and Lab Directors Intercountry Meeting is scheduled to take place in Muscat, Oman, from 24-26 September 2023.

Non polio AFP rate



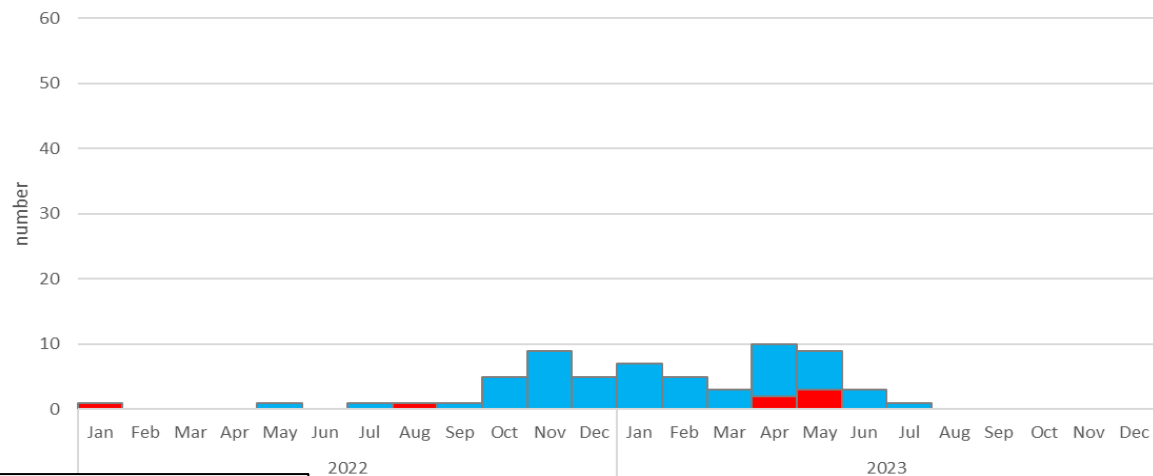
Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

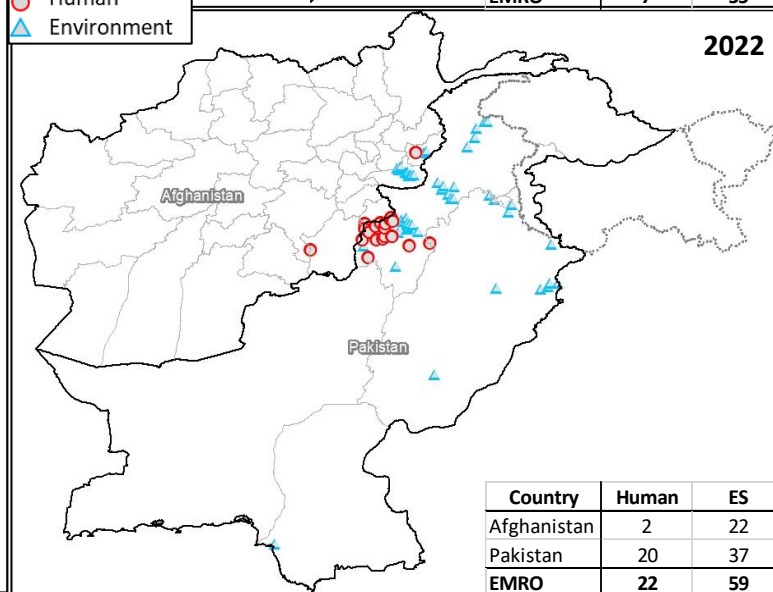
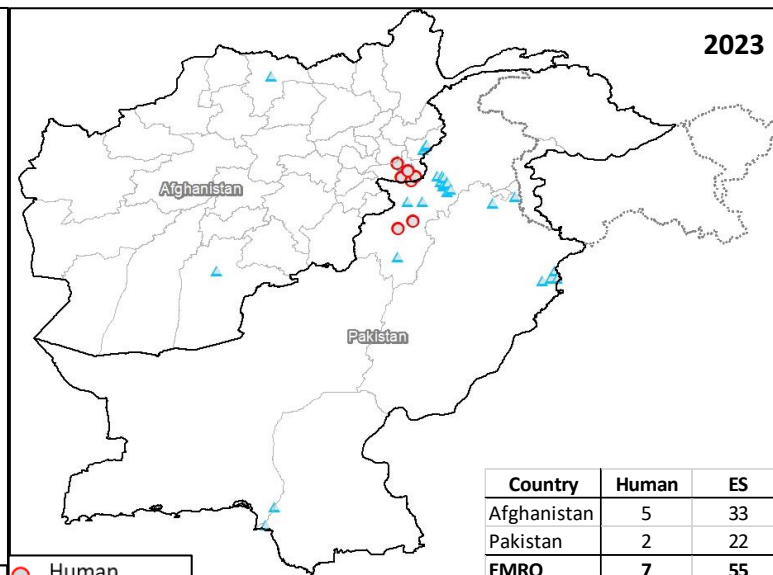
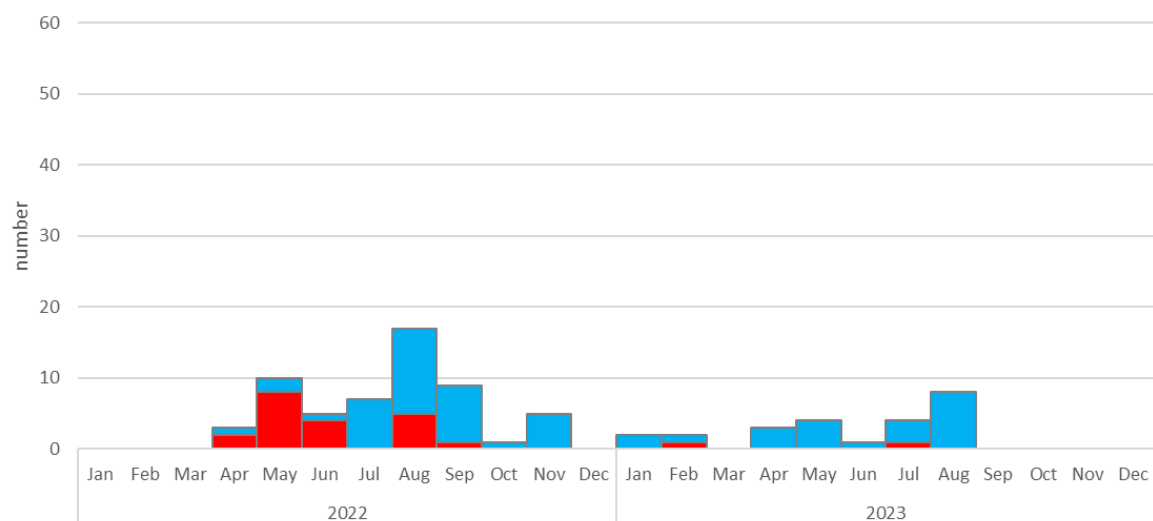
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Afghanistan



■ Human ■ Environment

Pakistan



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

Virus isolation by country, last 12 months (Sep. 17, 2022, to Sep. 17, 2023)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	5	2	1	3	1	9	21
Wild	5	2					7
cVDPV2				3	1	8	12
aVDPV2							
VDPV2			1			1	2
VDPV3							
Environment	52	32	7	6	1	11	109
Wild	52	31					83
cVDPV2			3	6	1	11	21
aVDPV2			4				4
VDPV2							
VDPV3		1					1
Total	57	34	8	9	2	20	130

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 2021	Total year 2022	17 September		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022			2023									
			2022	2023	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Afghanistan	4	2	2	5	0	0	0		0	0	2	3	0				18-May-23
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	0		
Egypt	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				
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	1	20	20	2	0	0		0	1	0	0	0	0	1			11-Jul-23
Palestine ****	0	0	0	0	0	0	0								0		
Qatar	0	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					
Sudan	0	0	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	0			
U.A.E	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	0					
EMR	5	22	22	7	0	0	0	0	1	0	2	3	0	1	0	0	11-Jul-23

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

Investigation of AFP cases with paralysis onset in 2022 & 2023

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COUNTRY	2023									2022									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	4068	5	0	3763	0	5	1	25.35	94.32	5368	2	0	5365	1	0	0	24.34	94.41	17-Sep-23
BAHRAIN	11	0	0	8	0	0	0	5.16	100.00	30	0	0	30	0	0	0	10.02	83.33	17-Sep-23
DJIBOUTI	9	0	0	7	0	2	1	3.00	88.89	19	0	0	19	0	0	0	4.65	47.37	15-Sep-23
EGYPT	1152	0	0	1045	1	5	0	3.92	89.24	1394	0	0	1394	0	0	0	3.48	91.54	15-Sep-23
IRAN	782	0	0	756	0	0	0	5.20	96.80	824	0	0	824	0	0	0	4.06	97.69	16-Sep-23
IRAQ	600	0	0	554	0	12	0	4.79	94.83	835	0	0	835	0	0	0	4.78	92.10	14-Sep-23
JORDAN	71	0	0	63	0	0	0	2.31	97.18	89	0	0	89	0	0	0	2.14	94.38	17-Sep-23
KUWAIT	33	0	0	33	0	0	0	5.38	87.88	52	0	0	52	0	0	0	5.62	98.08	10-Sep-23
LEBANON	63	0	0	44	0	5	0	5.73	80.95	57	0	0	57	0	0	0	3.58	84.21	3-Sep-23
LIBYA	79	0	0	72	0	0	0	4.28	98.73	101	0	0	101	0	0	0	3.89	100.00	9-Sep-23
MOROCCO	80	0	0	36	0	30	2	0.95	58.75	94	0	0	89	0	5	0	0.92	57.45	4-Sep-23
OMAN	16	0	0	15	0	0	0	1.79	93.75	27	0	0	27	0	0	0	2.10	92.59	10-Sep-23
PAKISTAN	12155	2	0	11138	0	150	0	17.46	85.05	19032	20	1	19011	0	0	0	18.86	85.14	17-Sep-23
PALESTINE	17	0	0	15	0	1	1	1.15	94.12	33	0	0	32	1	0	0	1.64	100.00	17-Sep-23
QATAR	13	0	0	3	0	8	0	4.20	69.23	11	0	0	11	0	0	0	2.44	72.73	17-Sep-23
SAUDI ARABIA	197	0	0	147	0	0	0	3.31	96.95	274	0	0	274	0	0	0	3.18	93.80	17-Sep-23
SOMALIA	302	0	0	280	3	0	0	4.73	95.36	356	0	0	349	6	0	0	4.30	97.19	17-Sep-23
SUDAN	229	0	0	154	0	73	66	1.56	96.94	650	0	0	649	1	0	0	3.25	97.08	20-Aug-23
SYRIA	215	0	0	195	0	0	0	3.90	97.21	382	0	0	382	0	0	0	4.96	94.76	16-Sep-23
TUNISIA	72	0	0	69	0	0	0	3.43	68.06	55	0	0	55	0	0	0	1.91	61.82	15-Sep-23
U.A.E.	37	0	0	24	0	12	1	3.52	94.59	66	0	0	66	0	0	0	4.47	96.97	5-Sep-23
YEMEN	827	0	0	638	3	1	0	7.28	87.79	1377	0	1	1214	162	0	0	8.77	86.64	9-Sep-23
EMR POL	21028	7	0	19059	7	304	72	10.13	88.37	31126	22	2	30925	171	5	0	10.77	88.18	

* 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 2023

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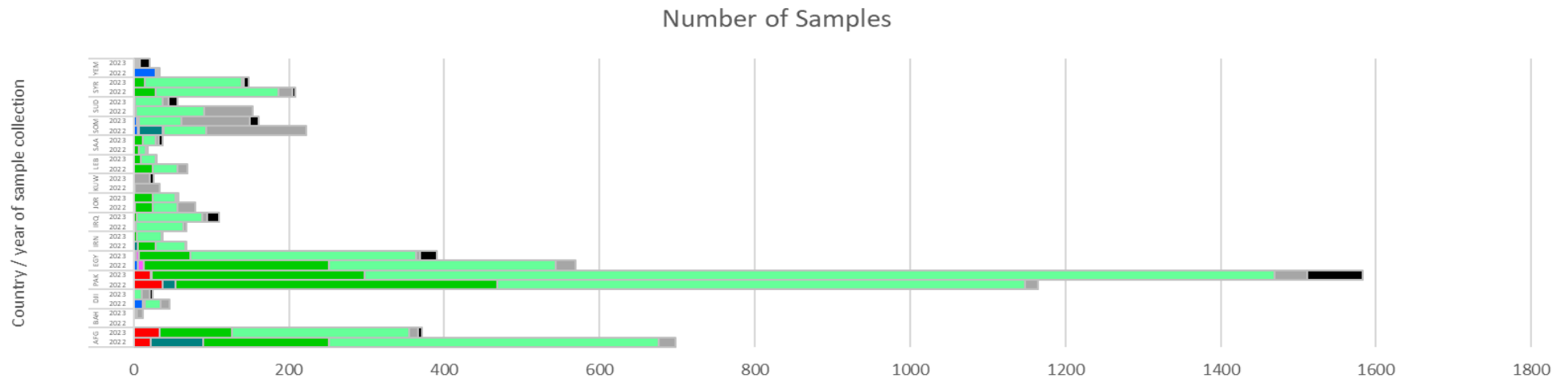
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results													Indicators				Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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 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	4028	196	20	543	3026	67	4	4 *	134						163			2	2	2	12%	92%	100%	98%	17-Sep-23
Bahrain	NPL Oman / CDC	11			1	10																5%	100%		45%	17-Sep-23
Djibouti	NPL Kenya / CDC	9			1	6		2														14%	86%		100%	15-Sep-23
Egypt	RRL Egypt	1117	11		122	935	47	3		6				1		6				1		9%	96%	100%	99%	17-Sep-23
Iran	NPL Iran / CDC	799	7		9	765	17	1		5						3						1%	100%	100%	99%	17-Sep-23
Iraq	NPL Iraq, RRL Egypt	604	4		45	532	15	8		3						2						8%	100%	100%	99%	15-Sep-23
Jordan	NPL Jordan, RRL Egypt	69			14	51	4															21%	94%		100%	17-Sep-23
Kuwait	RRL Kuwait / RIVM	33	1		3	29														1		10%	100%		100%	14-Sep-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	67			1	66																4%	100%			17-Sep-23
Libya	RRL Tunisia / RIVM	79	1		2	74	2			1												3%	97%	1	100%	15-Sep-23
Morocco	NPL Morocco, RRL Tunisia	83			2	79	2															3%	99%		94%	16-Sep-23
Oman	NPL Oman / CDC	17			1	16																13%	100%		100%	17-Sep-23
Pakistan	RRL Pakistan	11975	279	25	1825	9430	361	35	2	180						222						13%	91%	100%	96%	17-Sep-23
Palestine & UNRWA		17	1			16				1			1									0%	38%			17-Sep-23
Qatar	NPL Oman / CDC	13	1			12										1						0%	100%	1	100%	17-Sep-23
Saudi Arabia	NPL Saudi Arabia / CDC	169	1		5	163				1												3%	98%	100%	99%	20-Aug-23
Somalia	NPL Kenya / CDC	302	8		49	229	8	10		3			2	3		2				1		17%	5%		96%	17-Sep-23
Sudan	NPL Sudan / RRL Egypt	263	10		39	197		17					3			1			2			15%	99%	100%	30%	14-Apr-23
Syria	NPL Syria / RRL Egypt	209	4	1	11	180	13															5%	100%			17-Sep-23
Tunisia	RRL Tunisia	78	1		3	72	2									1						3%	96%	1	97%	15-Sep-23
U.A.E	NPL Oman / CDC	34			2	32																6%	94%		21%	17-Sep-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	693	20	1	139	533				10			1	3		15						17%	16%	100%	17%	9-Sep-23
Total EMR 2023		20669	545	47	2817	16453	538	80	7 *	344			7	7		416			4	3	4	12%	89%	100%	94%	
Total EMR 2022		30461	1066	119	4831	24432		9	22 *	556	2		38	169 **		723		6	8	2	1	13%	93%	89%	92%	

* In 2023 – one WPV1 case is confirmed due to positive contact while in 2022 - three WPV1 cases were confirmed due to positive contacts (Index cases were negative for WPV1)

** In 2022 - Five cVDPV2 cases are identified by positive contacts (Index cases were negative for cVDPV2)

Environmental Surveillance Isolation by Classification

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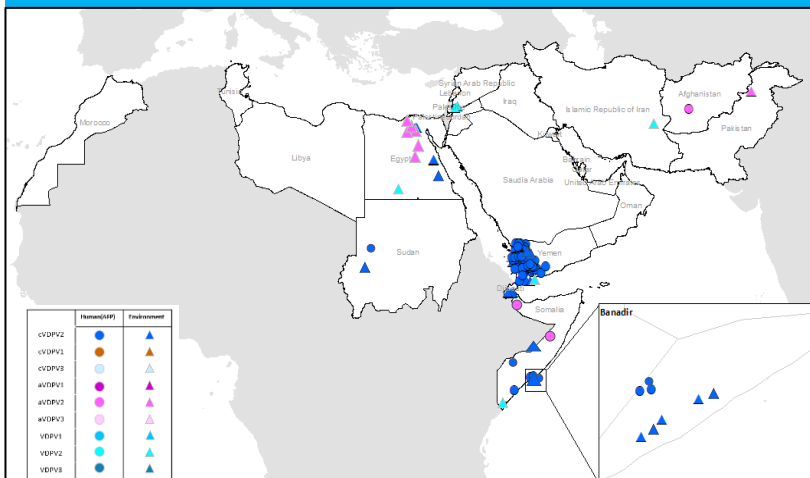


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	33					37	22																						
cVDPV2					12				6	3													6	4	1				28	3
Wild+cVDPV2																														
Wild+aVDPV2																														
Wild+aVDPV3																														
aVDPV1																														
aVDPV2							1		7	4																				
aVDPV3																														
VDPV1																														
VDPV2											1				2								1						1	
VDPV3							1																							
SL2	68				3		16				4											30	2		1					
SL1/3	162	93		2			415	274	239	66	23	4	3	4	22	25			24	9	7	12	2	1	2	1	28	15	2	2
Entero	424	229		2	20	10	679	1172	292	291	39	32	61	84	32	29	2		32	20	9	17	55	54	88	36	159	124	1	3
Negative	22	12		8	11	11	17	43	25	5	1	1	4	7	23	2	31	21	13	1	2	3	128	88	63	7	18	3		
Pending		5				3		71		21				15		2		5			6			12		11	3	6	1	13

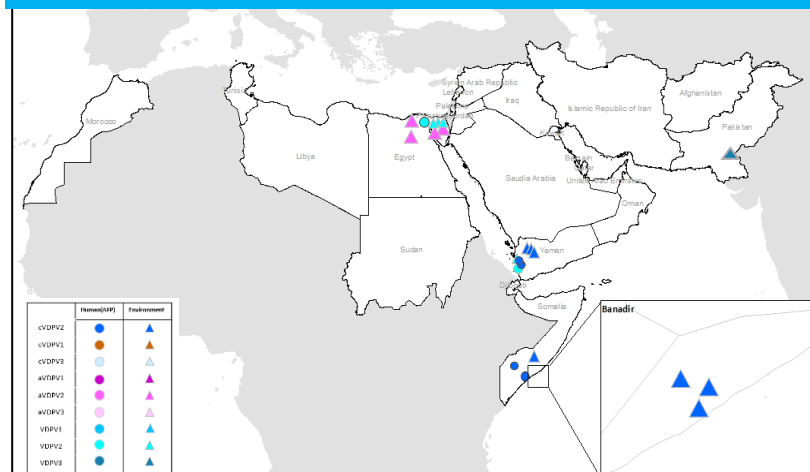
VDPVs isolations by Source and Country

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VDPV Isolates, EMR countries, 2022



VDPV Isolates, EMR countries, 2023



VDPVs isolated from 2018-2023

VDPV 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	2017	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	3		13-08-23							
	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	3	29-07-23	3	1	11		5		31-08-22	19	5	26	1	6	4	13-07-23		1	5		1		10-03-22
	Sudan			58		1		31-10-22			18				08-10-20			14		1		28-11-22			4				24-08-20
	Yemen					66	162	2	05-08-23				23	40	19-12-22				13	27	3	29-05-23							
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								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			22-04-23							
	Yemen						1	09-05-23											2	1		26-04-23							
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)