

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

2023

- Zero case of Wild Polio 1
- 1 case of cVDPV2
 - 01 in Somalia



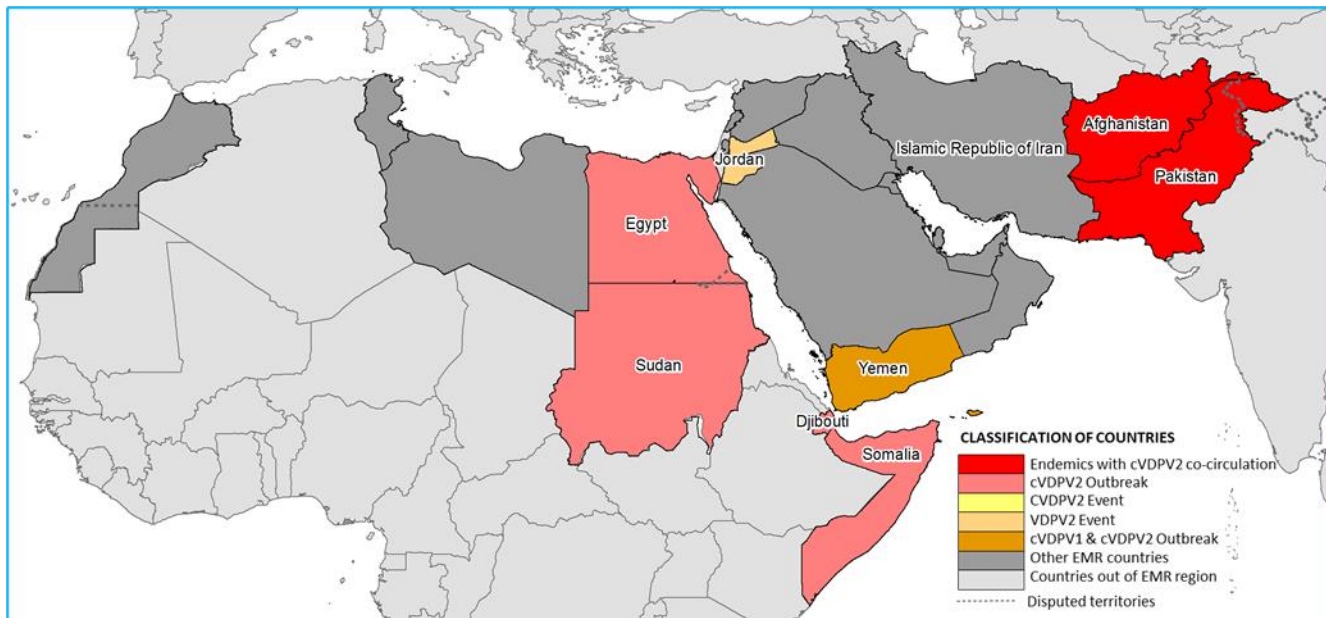
Sewage
water
sampling

2022

- 59 samples Wild Polio 1
 - 22 in Afghanistan
 - 37 in Pakistan
- 44 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 05 in Somalia
 - 01 in Sudan
 - 20 in Yemen

2023

- 12 samples Wild Polio 1
 - 09 in Afghanistan
 - 03 in Pakistan
- Zero samples of cVDPV2



Highlights of the week

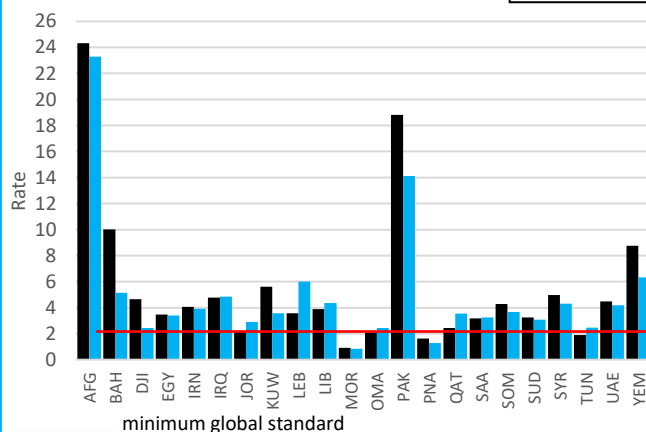
Wild Poliovirus

- No new Wild Poliovirus cases reported this week. The WPV1 cases count in 2022 remains to be 22 cases (2 from Afghanistan and 20 from Pakistan) and no human cases reported in 2023
- One new WPV1 positive environmental sample reported this week in 2023 from Pakistan. The new WPV1 ES was reported from Di Khan district of Khyber Phakhtunkhwa province, with specimen collection date 21st February 2023. Accordingly, in 2023 to date, the positive WPV1 ES count is 12 (9 in Afghanistan and 3 in Pakistan) while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

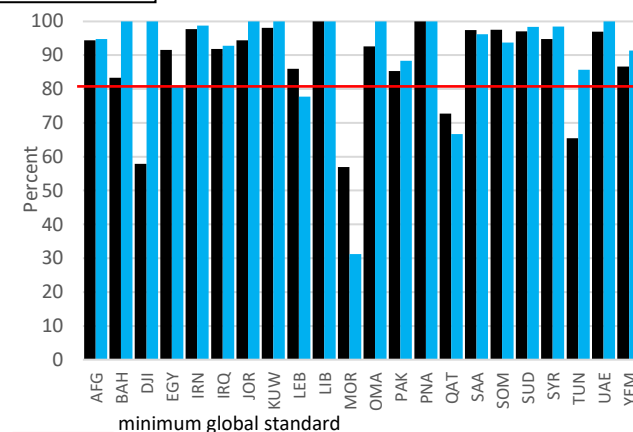
Vaccine derived poliovirus (VDPV)

- No new cVDPV isolates from human or environmental samples reported this week. The cVDPV2 cases count in 2023 remains to be 1 case from Somalia while the count in 2022 remains to be 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
- In 2022 to date, the positive cVDPV2 ES count remains to be 44 (1 in Sudan, 5 in Somalia, 6 in Egypt, 12 in Djibouti and 20 in Yemen) and no cVDPV ES reported in 2023.
- One new VDPV3 positive environmental sample reported this week from Ghotki district of Sindh province in Pakistan with specimen collection date 14th February 2023.

Non polio AFP rate

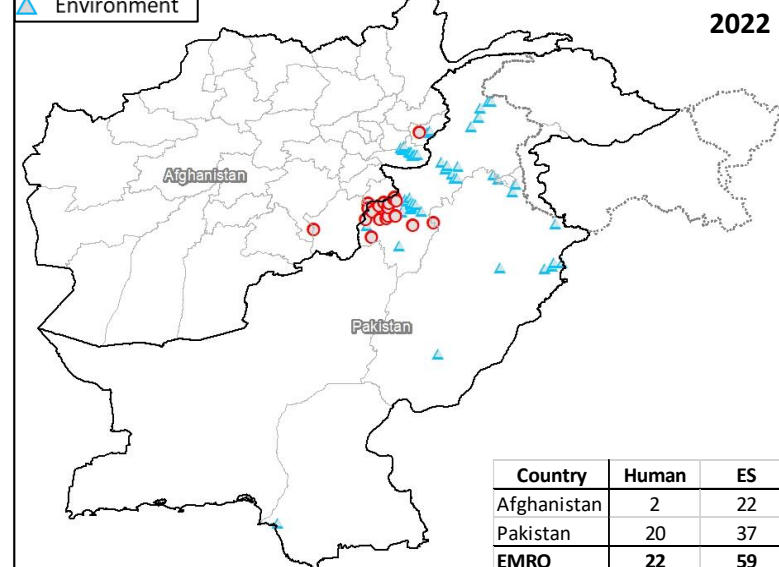
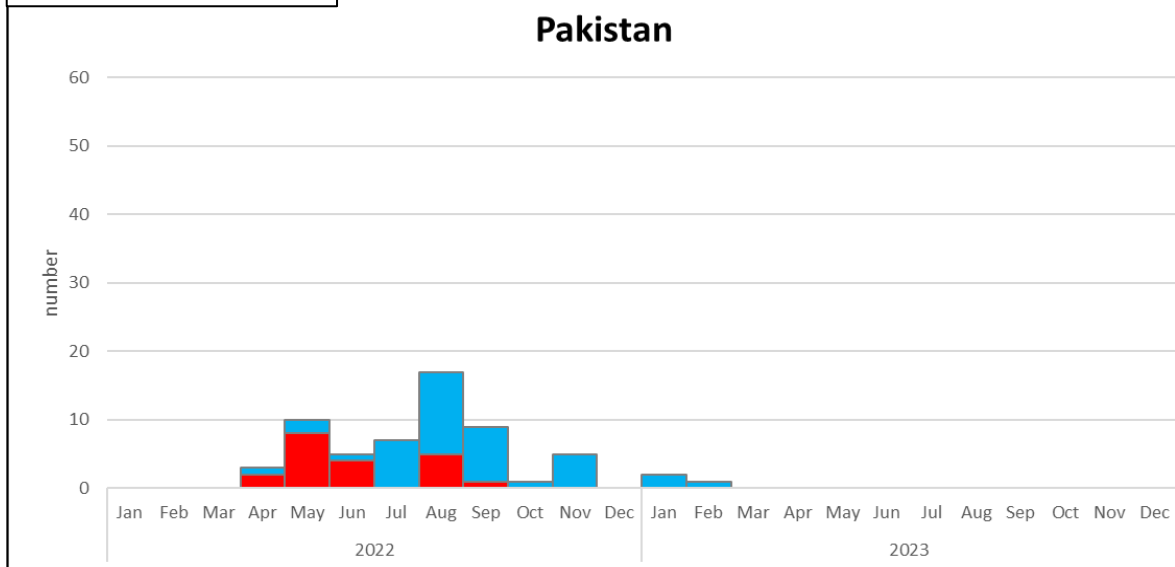
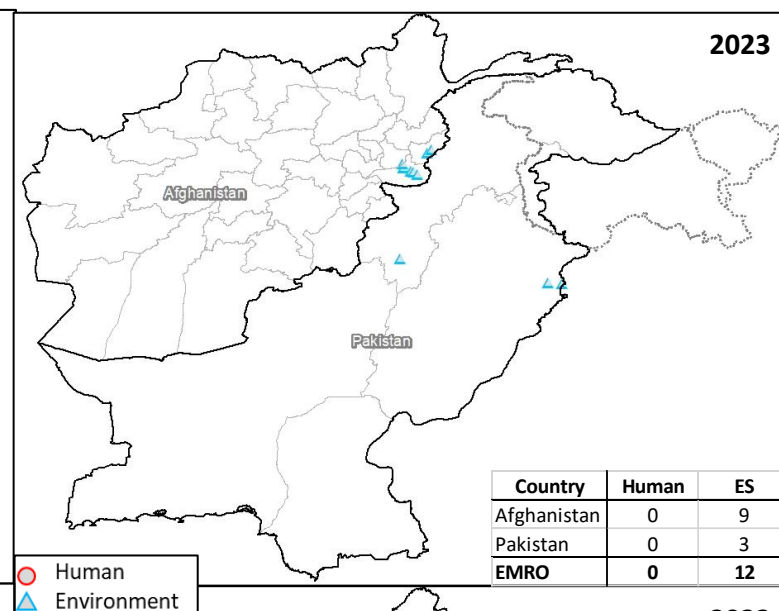
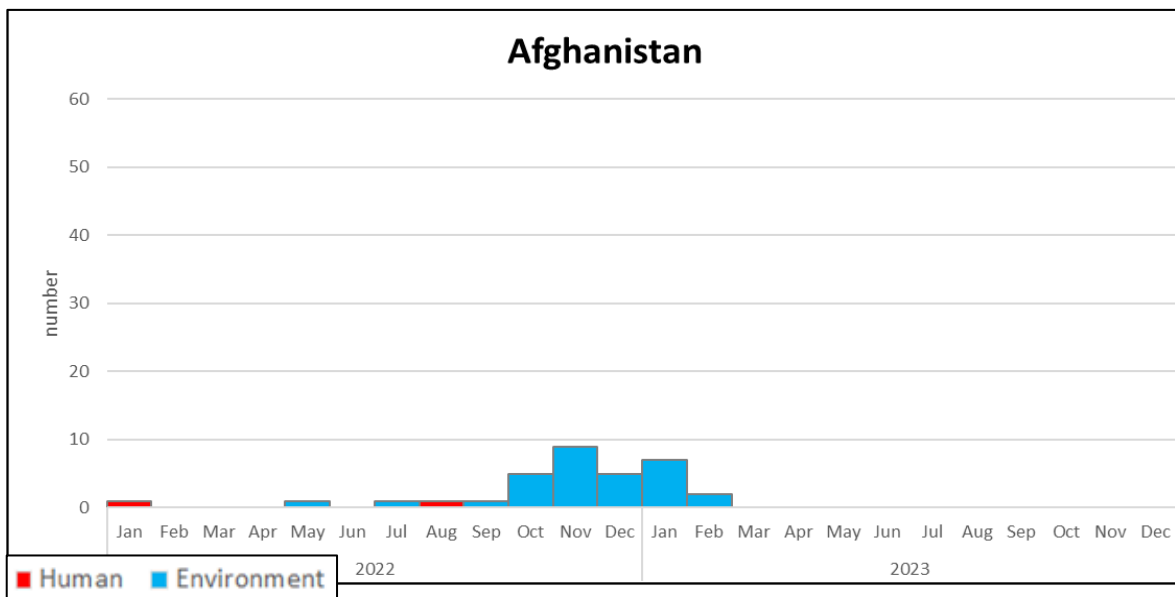


Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

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

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Source / Virus type	AFG	DJI	PAK	EGY	JOR	SOM	SUD	YEM	Total
Human (AFP only)	1		20			6	1	101	129
Wild	1		20						21
cVDPV2						4	1	101	106
aVDPV2						2			2
VDPV2									
Environment	31	7	40	4	2	5	1	22	112
Wild	31		40						71
cVDPV2		7		4		4	1	21	37
aVDPV2									
VDPV2					2	1		1	4
Total	32	7	60	4	2	11	2	123	241

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	12 March		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022									2023			
			2022	2023	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Afghanistan	4	2	1	0	0	0	0	0	1	0	0	0	0				29-Aug-22
Bahrain	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	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				
Lebanon ****	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			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	1	20	0	0	2	8	4	0	5	1	0	0		0			15-Sep-22
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	0				
Sudan	0	0	0	0	0	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				
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	1	0	2	8	4	0	6	1	0	0	0	0	0	0	15-Sep-22

**** 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	1019	0	0	668	0	0	0	23.29	94.80	5368	2	0	5347	1	11	0	24.32	94.41	12-Mar-23
BAHRAIN	3	0	0	0	0	0	0	5.16	100.00	30	0	0	27	0	2	1	10.02	83.33	12-Mar-23
DJIBOUTI	2	0	0	0	0	0	0	2.45	100.00	19	0	0	19	0	0	0	4.65	57.89	11-Mar-23
EGYPT	273	0	0	143	0	0	0	3.40	80.59	1394	0	0	1378	0	10	0	3.48	91.54	9-Mar-23
IRAN	160	0	0	151	0	0	0	3.90	98.75	824	0	0	824	0	0	0	4.06	97.69	11-Mar-23
IRAQ	166	0	0	111	0	0	0	4.84	92.77	835	0	0	834	0	0	0	4.78	91.86	10-Mar-23
JORDAN	24	0	0	17	0	0	0	2.90	100.00	89	0	0	89	0	0	0	2.14	94.38	9-Mar-23
KUWAIT	6	0	0	2	0	0	0	3.58	100.00	52	0	0	52	0	0	0	5.62	98.08	20-Feb-23
LEBANON	18	0	0	1	0	0	0	6.00	77.78	57	0	0	49	0	7	0	3.58	85.96	12-Mar-23
LIBYA	22	0	0	12	0	0	0	4.36	100.00	101	0	0	101	0	0	0	3.89	100.00	11-Mar-23
MOROCCO	16	0	0	3	0	0	0	0.85	31.25	93	0	0	52	0	33	1	0.91	56.99	24-Feb-23
OMAN	6	0	0	5	0	0	0	2.45	100.00	27	0	0	27	0	0	0	2.10	92.59	12-Mar-23
PAKISTAN	2774	0	0	2079	0	0	0	14.11	88.36	18991	20	1	18654	0	180	0	18.81	85.31	12-Mar-23
PALESTINE	5	0	0	0	0	0	0	1.28	100.00	33	0	0	28	0	1	1	1.64	100.00	26-Feb-23
QATAR	3	0	0	0	0	0	0	3.55	66.67	11	0	0	11	0	0	0	2.44	72.73	12-Mar-23
SAUDI ARABIA	53	0	0	0	0	0	0	3.26	96.23	274	0	0	270	0	0	0	3.18	97.45	12-Mar-23
SOMALIA	64	0	0	41	1	0	0	3.67	93.75	356	0	0	349	6	0	0	4.28	97.47	12-Mar-23
SUDAN	123	0	0	94	0	0	0	3.09	98.37	650	0	0	648	1	1	0	3.25	97.08	9-Mar-23
SYRIA	65	0	0	48	0	0	0	4.31	98.46	382	0	0	382	0	0	0	4.96	94.76	11-Mar-23
TUNISIA	14	0	0	9	0	0	0	2.47	85.71	55	0	0	55	0	0	0	1.91	65.45	10-Mar-23
U.A.E.	12	0	0	0	0	0	0	4.19	100.00	66	0	0	60	0	4	0	4.47	96.97	7-Mar-23
YEMEN	196	0	0	22	0	0	0	6.32	91.33	1377	0	1	1195	162	6	0	8.76	86.64	12-Mar-23
EMR POL	5024	0	0	3406	1	0	0	8.82	90.31	31084	22	2	30451	170	255	3	10.76	88.33	

* 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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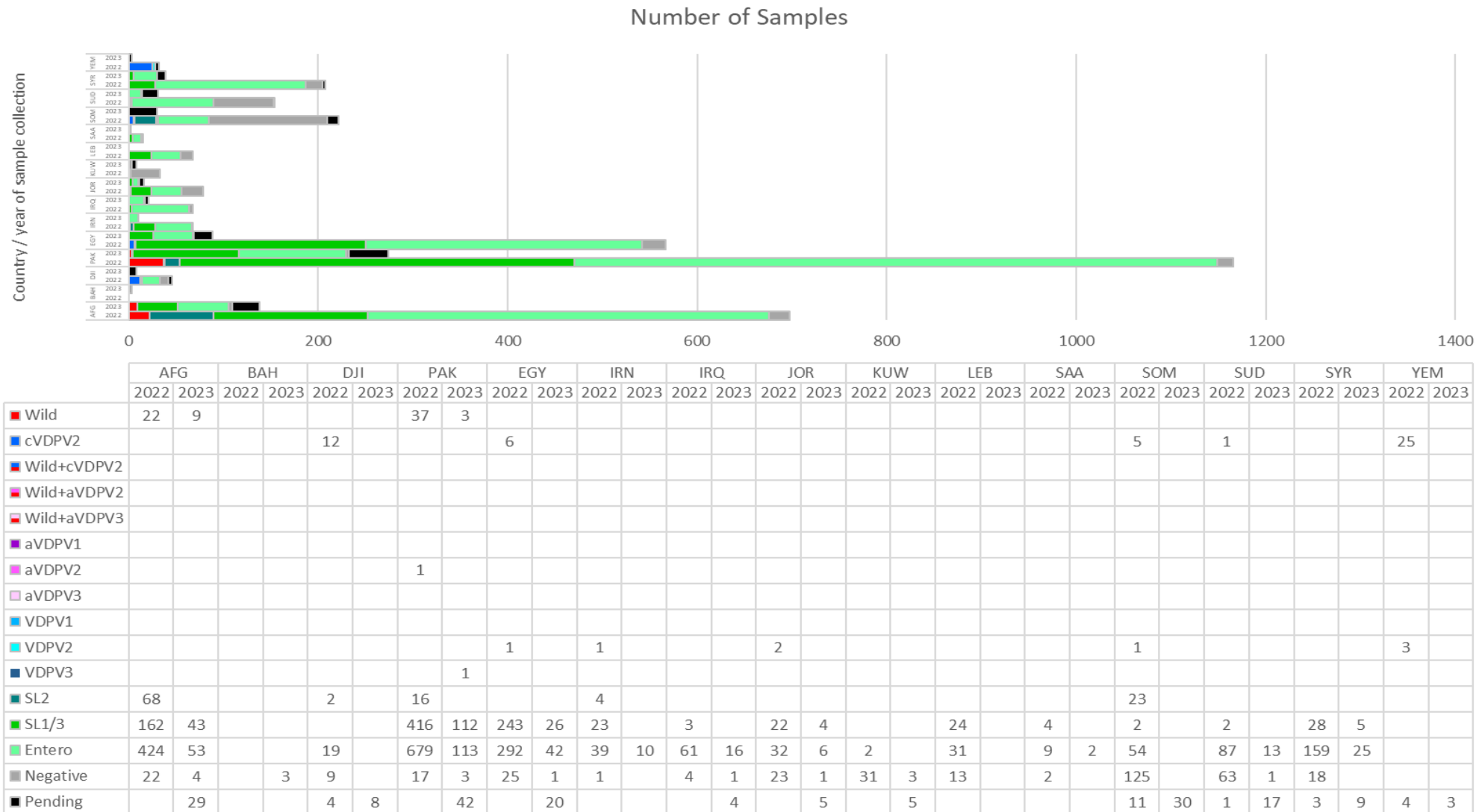
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results													Indicators				Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	1003	45	2	73	579	259	6		25						27					9	8%	100%	100%	100%	12-Mar-23
Bahrain	NPL Oman / CDC																									6-Mar-23
Djibouti	NPL Kenya / CDC	2						2																		11-Mar-23
Egypt	RRL Egypt	255	1		21	141	72	20		1												11%	94%	100%	100%	9-Mar-23
Iran	NPL Iran / CDC	212	1			185	26			1												0%	100%	100%	99%	11-Mar-23
Iraq	NPL Iraq, RRL Egypt	167	1		10	108	45	3								1						8%	100%	100%	100%	9-Mar-23
Jordan	NPL Jordan, RRL Egypt	25			6	18	1															25%	95%		100%	12-Mar-23
Kuwait	RRL Kuwait / RIVM	13			1	7	5															13%	100%		100%	12-Mar-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	4				4																0%	100%			9-Mar-23
Libya	RRL Tunisia / RIVM	19				17	2															0%	100%		100%	9-Mar-23
Morocco	NPL Morocco, RRL Tunisia	23			1	17	5															3%	100%		94%	10-Mar-23
Oman	NPL Oman / CDC	7				6	1															0%	100%		100%	6-Mar-23
Pakistan	RRL Pakistan	2723	102	3	179	1992	427	17		60						83					3	6%	100%	100%	99%	12-Mar-23
Palestine & UNRWA		5				4		1														0%	75%		100%	26-Feb-23
Qatar	NPL Oman / CDC	3				1	2															0%	100%		100%	6-Mar-23
Saudi Arabia	NPL Saudi Arabia / CDC	34	1		1	17		15		1												5%	100%	100%	100%	12-Feb-23
Somalia	NPL Kenya / CDC	64	2		8	32	9	13					1	1								19%	12%		100%	12-Mar-23
Sudan	NPL Sudan / RRL Egypt	131	1		22	81	27									1						21%	99%	100%	100%	9-Mar-23
Syria	NPL Syria / RRL Egypt	63			2	46	15															5%	100%			9-Mar-23
Tunisia	RRL Tunisia	51	1		1	43	6									1						2%	100%	1	98%	9-Mar-23
U.A.E	NPL Oman / CDC																									6-Mar-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	74			2	17		55														8%	89%		21%	12-Mar-23
Total EMR 2023		4878	155	5	327	3315	902	132		88			1	1		113					12	7%	99%	100%	99%	
Total EMR 2022		30445	1065	119	4828	24408	4	17	22 *	555	1		38	169 **		721		6	8	2	3	13%	93%	89%	93%	

* In 2022 - Three WPV1 cases are 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

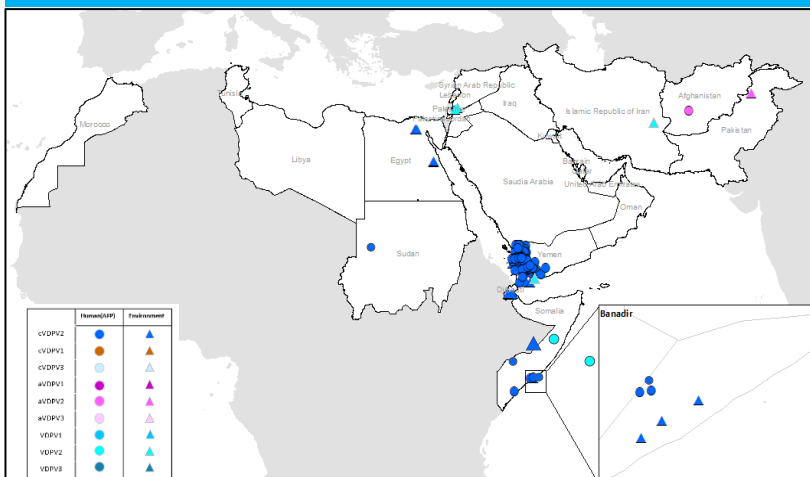
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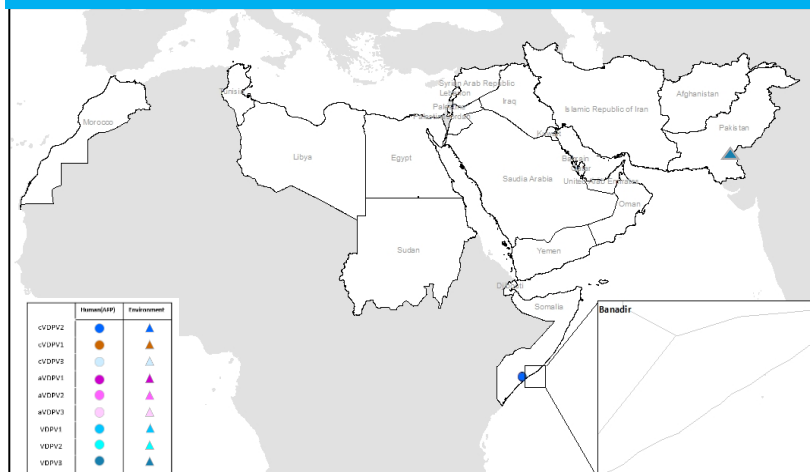
VDPVs isolations by Source and Country

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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			29-08-22							
	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	1	12-01-23	3	1	11		5		31-08-22	19	5	26	1	5		04-10-22		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		14-12-22				23	40		19-12-22				13	20		28-11-22								
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																						
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			30-05-21				1			14-06-21				1			21-09-20								
	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	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																						
	Egypt																	1				11-07-21								
VDPV2	Egypt																		67	1		12-01-22								
	Iran																			1		04-02-22								
	Jordan																			2		25-05-22								
	Pakistan																			1		15-02-22								
	Somalia					1		01-09-22																						
	Yemen																		1			24-04-22								
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)