

Highlights



Children
Paralyzed
by polio

2022

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

2023

- 1 case of Wild Polio 1
 - 01 in Pakistan

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

- 1 case of cVDPV2
 - 01 in Somalia

- Zero cVDPV1 cases

- Zero case of cVDPV1



Sewage
water
sampling

2022

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

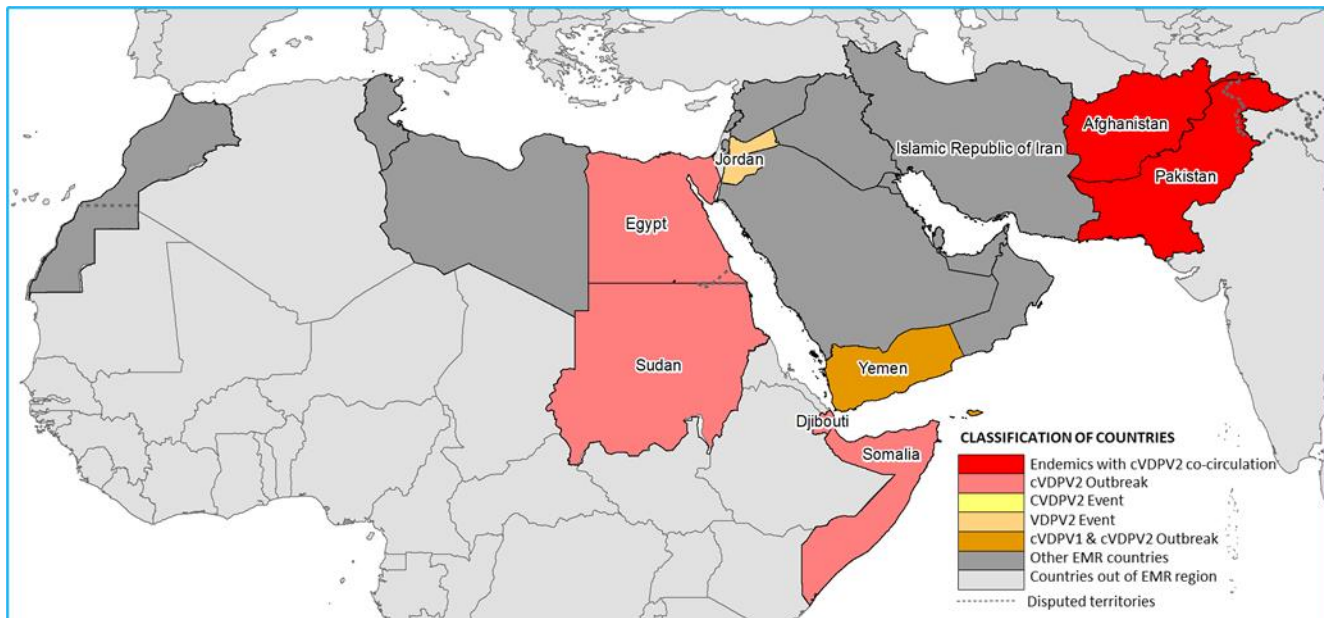
2023

- 17 samples Wild Polio 1
 - 14 in Afghanistan
 - 03 in Pakistan

- 44 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 05 in Somalia
 - 01 in Sudan
 - 20 in Yemen

- Zero samples of cVDPV2

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

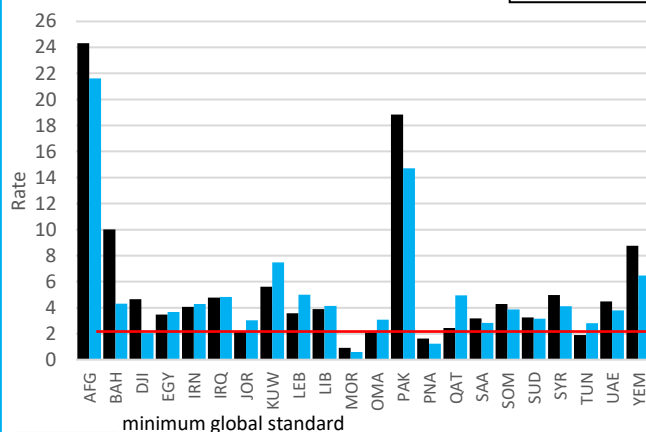
Wild Poliovirus

- No new Wild Poliovirus cases reported this week; The WPV1 cases count in 2023 remains to be 1 case from Pakistan while in 2022 the WPV1 cases count is 22 cases (2 from Afghanistan and 20 from Pakistan).
- One new WPV1 positive environmental sample reported this week in 2023 from Afghanistan. The new WPV1 ES was reported from Batikot district of Nangarhar province with sample collection date on 1st March 2023. Accordingly, in 2023 to date, the positive WPV1 ES count is 17 (14 in Afghanistan and 3 in Pakistan) while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

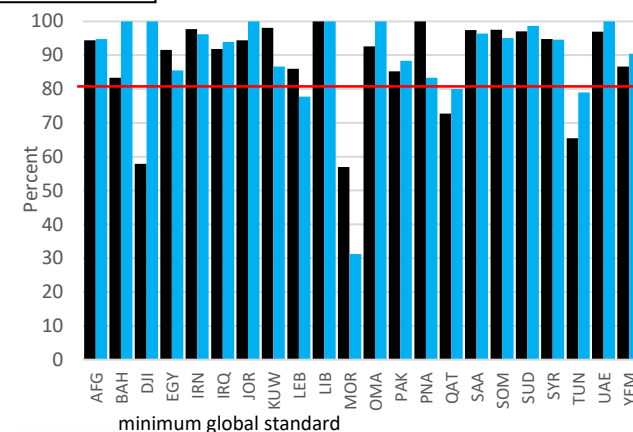
Vaccine derived poliovirus (VDPV)

- 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 VDPV2 ES reported this week from Egypt. The ES was reported from Shark district, Alexandria province, with date of sample collection 27th February 2023.

Non polio AFP rate



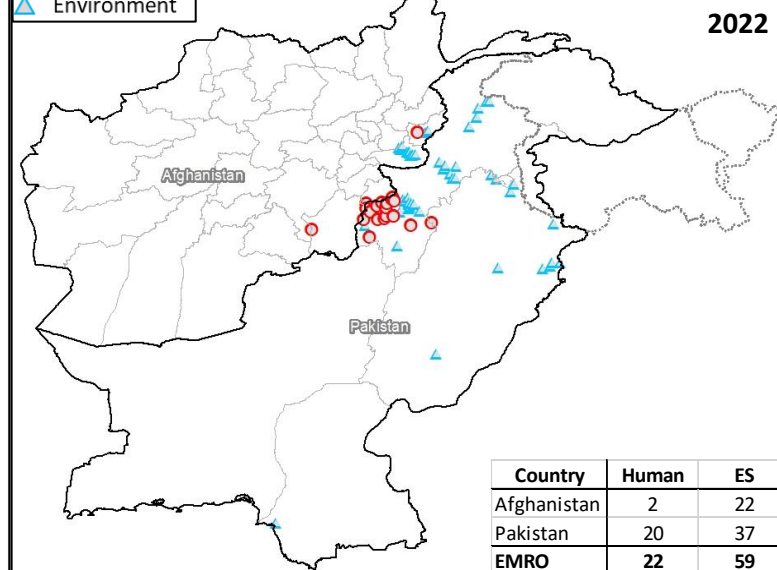
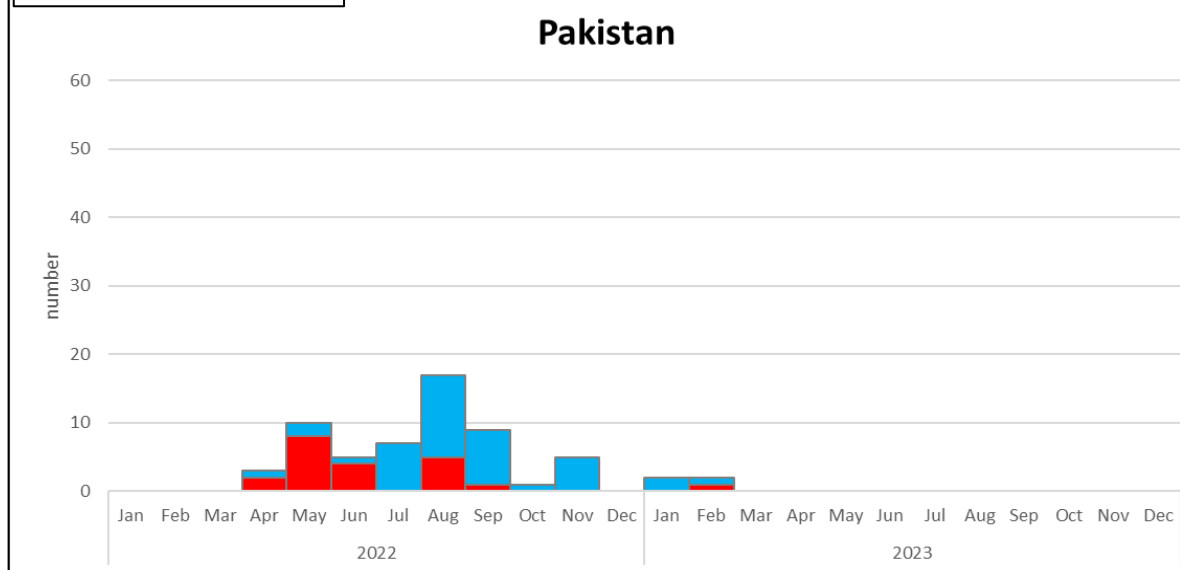
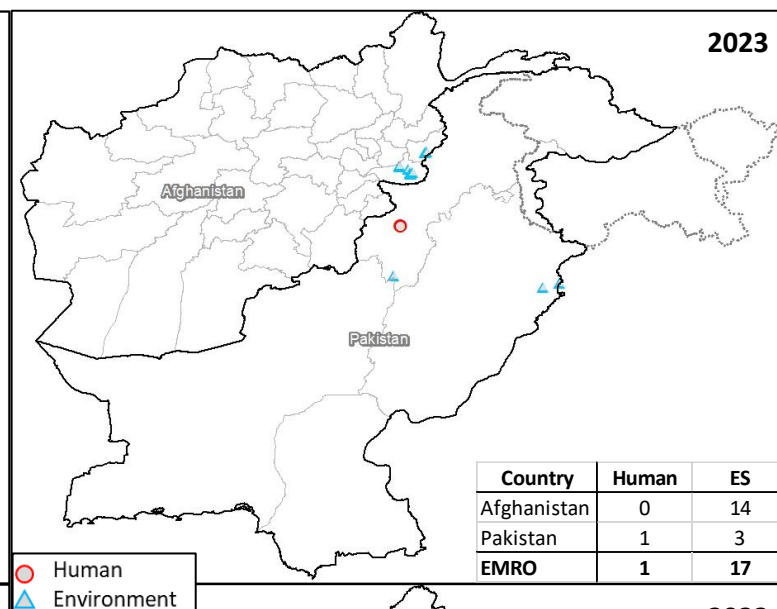
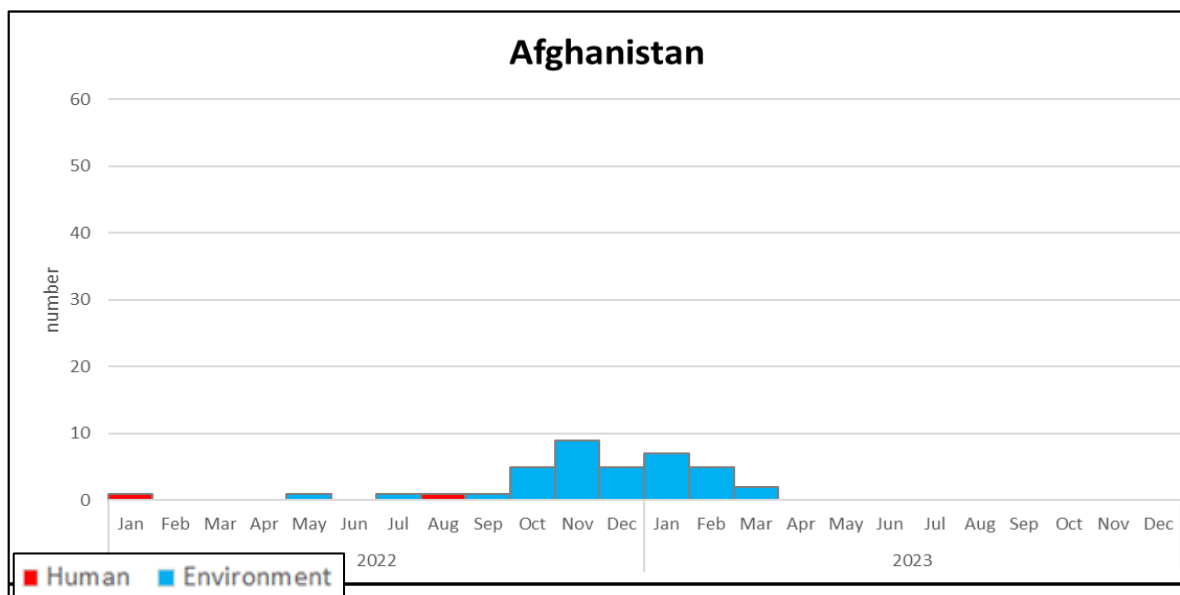
Stool adequacy



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

WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (Mar. 26, 2022 to Mar. 26, 2023)

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Source / Virus type	AFG	DJI	PAK	EGY	JOR	SOM	SUD	YEM	Total
Human (AFP only)	1		21			6	1	84	113
Wild	1		21						22
cVDPV2						4	1	84	89
aVDPV2						2			2
VDPV2									
Environment	36	5	40	5	2	5	1	21	115
Wild	36		40						76
cVDPV2		5		4		4	1	20	34
aVDPV2									
VDPV2				1	2	1		1	5
Total	37	5	61	5	2	11	2	105	228

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	26 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	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	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	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	0		
Pakistan	1	20	0	1	2	8	4	0	5	1	0	0		0	1		20-Feb-23
Palestine ****	0	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	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	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	1	2	8	4	0	6	1	0	0	0	0	1	0	20-Feb-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	1132	0	0	841	0	0	0	21.61	94.79	5368	2	0	5356	1	6	0	24.33	94.41	19-Mar-23
BAHRAIN	3	0	0	1	0	0	0	4.31	100.00	30	0	0	29	0	1	0	10.02	83.33	26-Mar-23
DJIBOUTI	2	0	0	2	0	0	0	2.04	100.00	19	0	0	19	0	0	0	4.65	57.89	26-Mar-23
EGYPT	352	0	0	207	0	0	0	3.66	85.51	1394	0	0	1378	0	14	0	3.48	91.54	23-Mar-23
IRAN	210	0	0	200	0	0	0	4.29	96.19	824	0	0	824	0	0	0	4.06	97.69	25-Mar-23
IRAQ	198	0	0	131	0	0	0	4.83	93.94	835	0	0	834	0	1	0	4.78	91.86	23-Mar-23
JORDAN	30	0	0	22	0	0	0	3.03	100.00	89	0	0	89	0	0	0	2.14	94.38	23-Mar-23
KUWAIT	15	0	0	9	0	0	0	7.48	86.67	52	0	0	52	0	0	0	5.62	98.08	19-Mar-23
LEBANON	18	0	0	1	0	0	0	5.01	77.78	57	0	0	49	0	8	1	3.58	85.96	12-Mar-23
LIBYA	25	0	0	17	0	0	0	4.14	100.00	101	0	0	101	0	0	0	3.89	100.00	25-Mar-23
MOROCCO	16	0	0	3	0	0	0	0.60	31.25	93	0	0	52	0	37	2	0.91	56.99	24-Feb-23
OMAN	9	0	0	8	0	0	0	3.07	100.00	27	0	0	27	0	0	0	2.10	92.59	26-Mar-23
PAKISTAN	3352	1	0	2695	0	0	0	14.70	88.34	19006	20	1	18867	0	107	0	18.83	85.25	26-Mar-23
PALESTINE	6	0	0	2	0	0	0	1.24	83.33	33	0	0	32	0	1	1	1.64	100.00	19-Mar-23
QATAR	5	0	0	0	0	0	0	4.94	80.00	11	0	0	11	0	0	0	2.44	72.73	26-Mar-23
SAUDI ARABIA	55	0	0	3	0	0	0	2.83	96.36	274	0	0	272	0	1	0	3.18	97.45	19-Mar-23
SOMALIA	81	0	0	56	1	0	0	3.88	95.06	356	0	0	349	6	0	0	4.28	97.47	26-Mar-23
SUDAN	150	0	0	105	0	0	0	3.15	98.67	650	0	0	648	1	1	0	3.25	97.08	23-Mar-23
SYRIA	74	0	0	65	0	0	0	4.10	94.59	382	0	0	382	0	0	0	4.96	94.76	25-Mar-23
TUNISIA	19	0	0	11	0	0	0	2.81	78.95	55	0	0	55	0	0	0	1.91	65.45	24-Mar-23
U.A.E.	13	0	0	0	0	0	0	3.79	100.00	66	0	0	60	0	5	0	4.47	96.97	20-Mar-23
YEMEN	240	0	0	71	0	0	0	6.46	90.42	1377	0	1	1201	162	9	0	8.76	86.64	25-Mar-23
EMR POL	6005	1	0	4450	1	0	0	8.85	90.36	31099	22	2	30687	170	191	4	10.76	88.29	

* 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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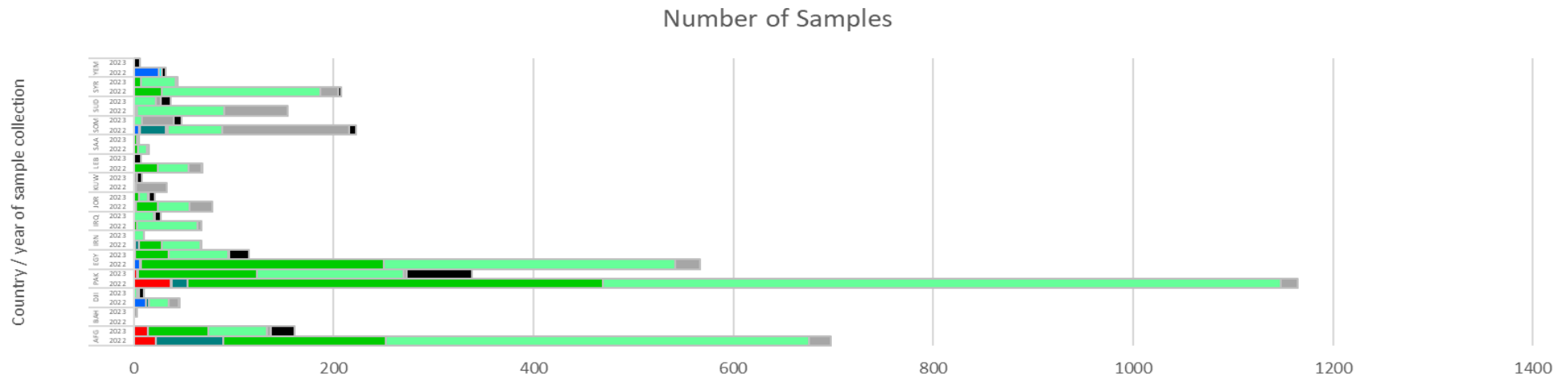
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators				Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	1174	58	3	98	828	72	15		36						43					5	8%	100%	100%	99%	26-Mar-23
Bahrain	NPL Oman / CDC																									26-Mar-23
Djibouti	NPL Kenya / CDC	2				2																0%	100%		100%	26-Mar-23
Egypt	RRL Egypt	351	3		24	225	94	5		2						2						9%	96%	100%	100%	23-Mar-23
Iran	NPL Iran / CDC	258	1			230	27			1												0%	100%	100%	100%	25-Mar-23
Iraq	NPL Iraq, RRL Egypt	199	2		14	153	25	5		1						2						8%	100%	100%	100%	23-Mar-23
Jordan	NPL Jordan, RRL Egypt	30			8	19	3															30%	96%		100%	23-Mar-23
Kuwait	RRL Kuwait / RIVM	17			1	10	4	2														8%	100%		100%	23-Mar-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	15				4	11															0%	100%			25-Mar-23
Libya	RRL Tunisia / RIVM	25				19	6															0%	100%		100%	24-Mar-23
Morocco	NPL Morocco, RRL Tunisia	26			2	21	3															4%	100%		96%	24-Mar-23
Oman	NPL Oman / CDC	10			1	7	2															5%	100%		100%	26-Mar-23
Pakistan	RRL Pakistan	3347	115	3	244	2614	344	21	1	68						94					3	6%	100%	100%	98%	26-Mar-23
Palestine & UNRWA		6				5		1														0%	60%		100%	19-Mar-23
Qatar	NPL Oman / CDC	5				3	2															0%	100%		100%	26-Mar-23
Saudi Arabia	NPL Saudi Arabia / CDC	52	1		2	46		3		1												4%	100%	100%	100%	19-Mar-23
Somalia	NPL Kenya / CDC	81	2		8	48	7	17					1	1								14%	11%		98%	26-Mar-23
Sudan	NPL Sudan / RRL Egypt	156	1		25	111	19									1						18%	99%	100%	100%	23-Mar-23
Syria	NPL Syria / RRL Egypt	73			2	63	8															4%	100%			25-Mar-23
Tunisia	RRL Tunisia	57	1		1	54	1									1						2%	100%	1	98%	24-Mar-23
U.A.E	NPL Oman / CDC	7			1	6																14%	100%		0%	26-Mar-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	87	1		12	74										1						12%	34%	100%	10%	25-Mar-23
Total EMR 2023		5978	185	6	443	4542	628	69	1	109			1	1		144					8	7%	98%	100%	97%	
Total EMR 2022		30457	1065	119	4831	24425		13	22 *	555	1		38	169 **		721		6	8	2	3	13%	93%	89%	92%	

* 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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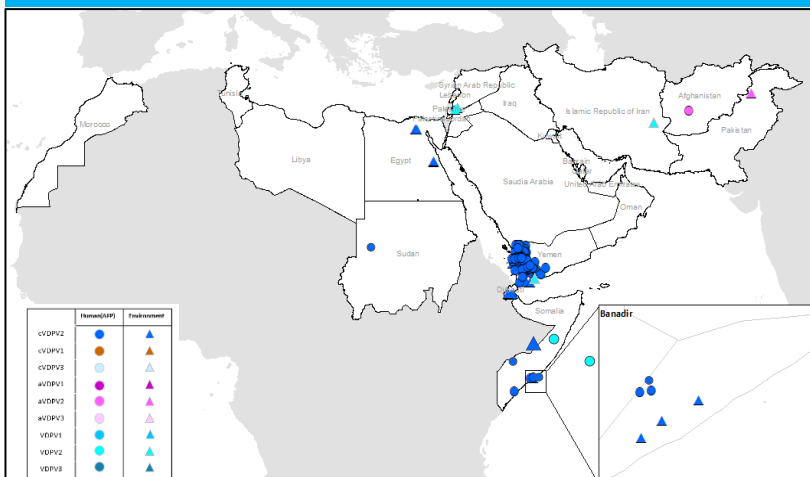


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	14					37	3																						
cVDPV2					12				6														5		1				25	
Wild+cVDPV2																														
Wild+aVDPV2																														
Wild+aVDPV3																														
aVDPV1																														
aVDPV2							1																							
aVDPV3																														
VDPV1																														
VDPV2									1	1	1				2								1						3	
VDPV3							1																							
SL2	68				3		16				4												26							
SL1/3	162	61					415	119	243	34	23		3		22	5			24		4	3	2		2		28	7		
Entero	424	58			20	3	679	147	292	60	39	10	61	20	32	9	2		31		9	2	55	8	88	22	159	35		
Negative	22	4		3	10	2	17	3	25	1	1		4	1	23	1	31	3	13		2		127	32	63	5	18			
Pending		24			1	5		66		19				6		6		5	1	7			6	8		10	3	2	4	6

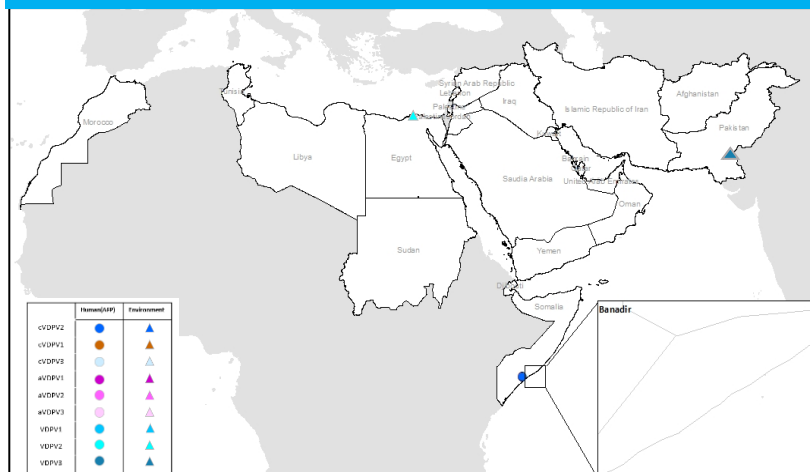
VDPVs isolations by Source and Country

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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																						
	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			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								
	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	27-02-23											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)