

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

- 5 cases of Wild Polio 1
 - 04 in Afghanistan
 - 01 in Pakistan

- 2 cases of cVDPV2
 - 02 in Somalia

- Zero case of cVDPV1



Sewage
water
sampling

2022

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

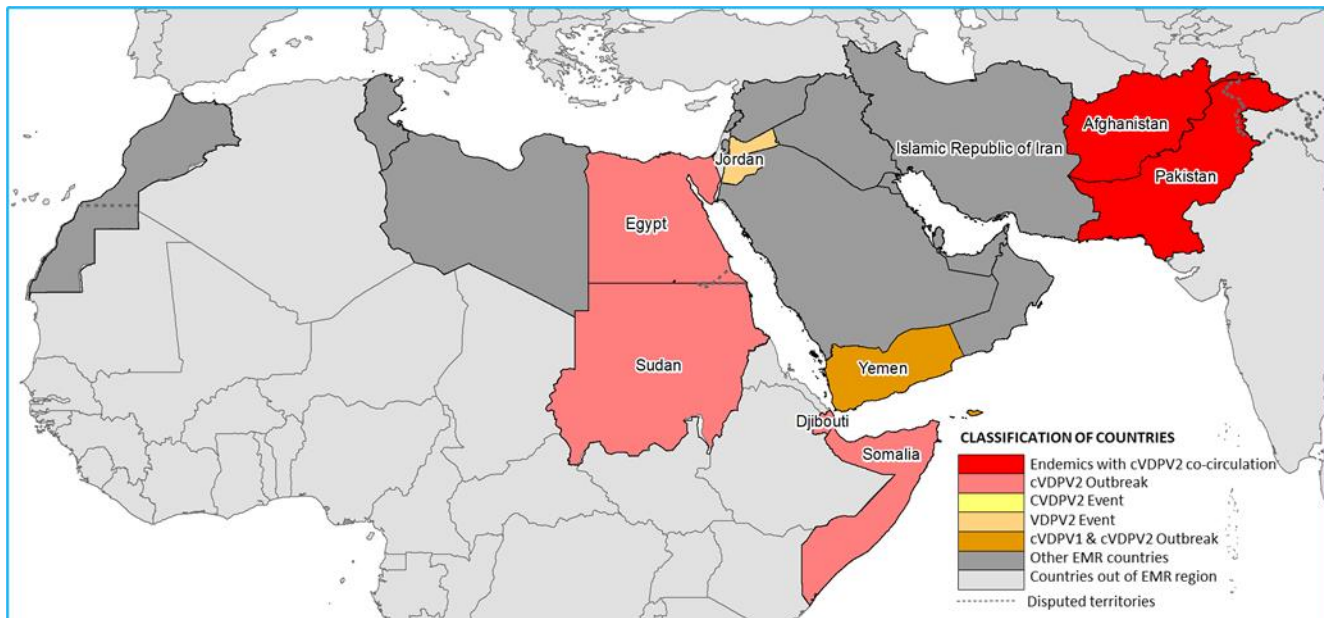
- 50 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 06 in Somalia
 - 01 in Sudan
 - 25 in Yemen

2023

- 38 samples Wild Polio 1
 - 28 in Afghanistan
 - 10 in Pakistan

- Zero samples of cVDPV2

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

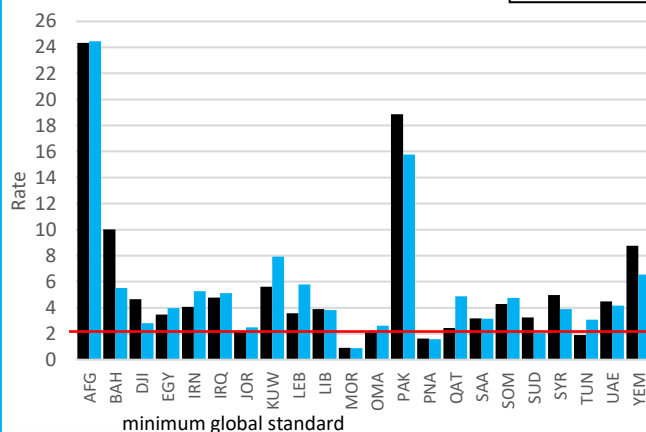
Wild Poliovirus

- One new wild poliovirus case reported from Afghanistan this week. The WPV1 case is from Behsud district of Nangarhar province, with date of onset 16th May 2023. The WPV1 cases count in 2023 to date is 5 (4 from Afghanistan and 1 from Pakistan) while in 2022, the WPV1 cases count remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- Seven new WPV1 positive environmental samples were reported this week (5 from Afghanistan and 2 from Pakistan) as follows:
Afghanistan: the new five WPV1 environmental samples are from: four from Nangarhar province (two from Jalalabad district and one each from Batikot and Behsud districts) with samples collection dates varying between 21st - 23rd May 2023; and one from Kandahar district of Kandahar province with sample collection date on 21st May 2023.
Pakistan: the two new WPV1 environmental samples are both from Peshawar district of Khyber Pakhtunkhwa province with samples collection dates on 9th and 16th May 2023. The positive WPV1 ES count in 2023 is 38 up to date (28 in Afghanistan and 10 in Pakistan) while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

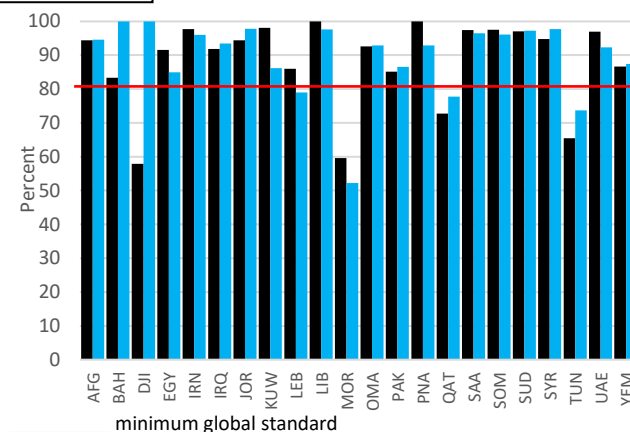
Circulating Vaccine derived poliovirus (cVDPV)

- No new cVDPV isolates from human or environmental samples reported this week.
- In 2023 the count of cVDPV2 cases remains to be 2 cases from Somalia while the count in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
- In 2022 to date, the positive cVDPV2 ES count remains to be 50 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 25 in Yemen) and no cVDPV2 ES reported in 2023 till date.

Non polio AFP rate



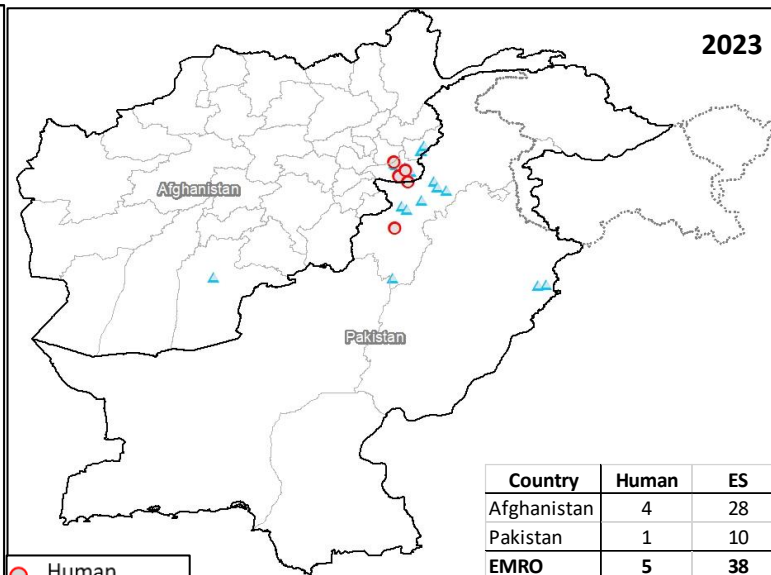
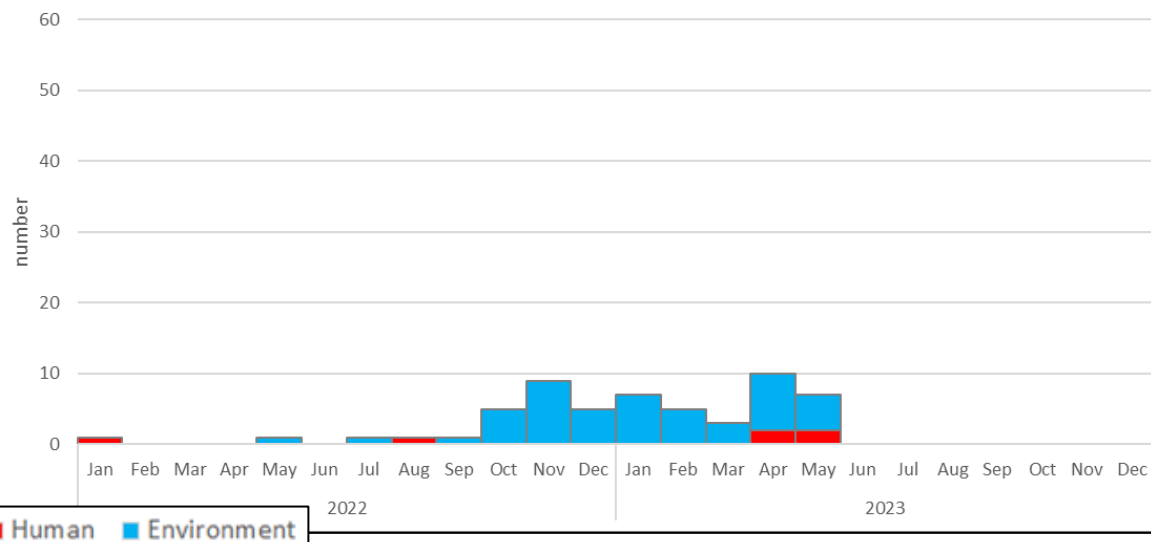
Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

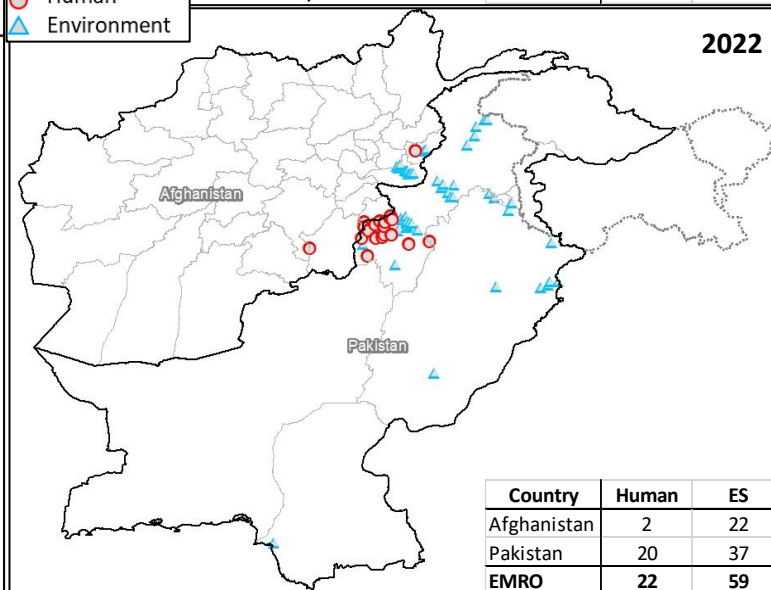
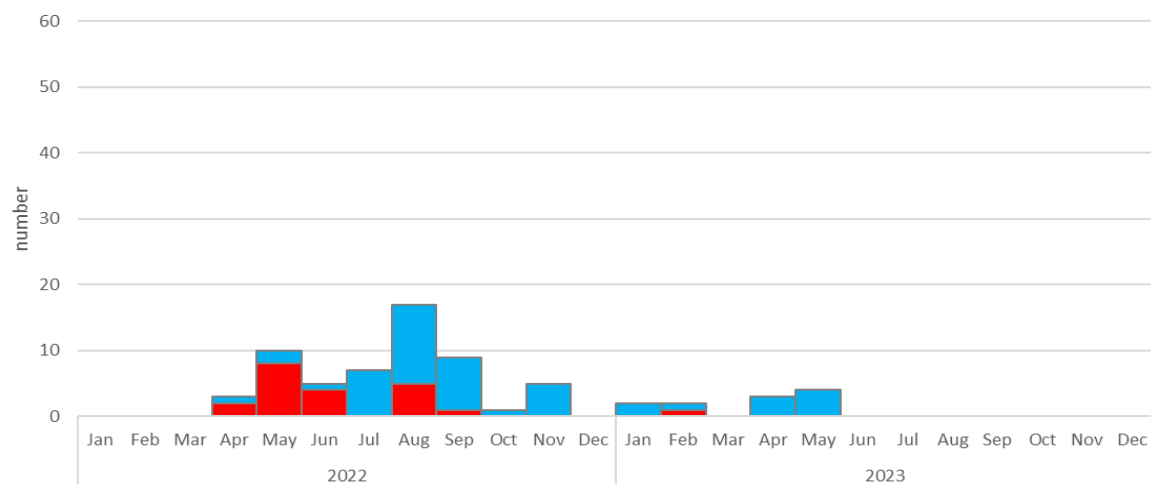
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Afghanistan



○ Human
△ Environment

Pakistan



Virus isolation by country, last 12 months (June 04, 2022 to June 04, 2023)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	5	11		6	1	47	70
Wild	5	11					16
cVDPV2				4	1	47	52
aVDPV2				2			2
Environment	49	43	1	3	1	15	112
Wild	49	43					92
cVDPV2			1	3	1	15	20
aVDPV2							
Total	54	54	1	9	2	62	182

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	4 June		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case	
					2022						2023							
			2022	2023	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June		
Afghanistan	4	2	1	4	0	1	0	0	0	0	0		0	0	2	2		16-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	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	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				
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	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	0			
Pakistan	1	20	10	1	0	5	1	0	0		0	1	0					20-Feb-23
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	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	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	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							
EMR	5	22	11	5	0	6	1	0	0	0	0	0	1	0	2	2		16-May-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	2343	4	0	2016	0	7	3	24.47	94.62	5368	2	0	5365	1	0	0	24.34	94.41	4-Jun-23
BAHRAIN	7	0	0	2	0	1	0	5.51	100.00	30	0	0	30	0	0	0	10.02	83.33	4-Jun-23
DJIBOUTI	5	0	0	2	0	0	0	2.80	100.00	19	0	0	19	0	0	0	4.65	57.89	3-Jun-23
EGYPT	697	0	0	547	0	7	0	3.98	84.94	1394	0	0	1382	0	10	0	3.48	91.54	1-Jun-23
IRAN	469	0	0	433	0	0	0	5.26	95.95	824	0	0	824	0	0	0	4.06	97.69	3-Jun-23
IRAQ	383	0	0	308	0	16	0	5.13	93.47	835	0	0	835	0	0	0	4.78	91.86	1-Jun-23
JORDAN	46	0	0	45	0	0	0	2.49	97.83	89	0	0	89	0	0	0	2.14	94.38	31-May-23
KUWAIT	29	0	0	21	0	1	0	7.93	86.21	52	0	0	52	0	0	0	5.62	98.08	4-Jun-23
LEBANON	38	0	0	24	0	3	0	5.80	78.95	57	0	0	57	0	0	0	3.58	85.96	4-Jun-23
LIBYA	42	0	0	32	0	0	0	3.82	97.62	101	0	0	101	0	0	0	3.89	100.00	3-Jun-23
MOROCCO	46	0	0	18	0	18	1	0.90	52.17	94	0	0	84	0	10	0	0.92	59.57	8-May-23
OMAN	14	0	0	11	0	0	0	2.62	92.86	27	0	0	27	0	0	0	2.10	92.59	4-Jun-23
PAKISTAN	6548	1	0	5698	0	75	0	15.76	86.53	19029	20	1	19008	0	0	0	18.85	85.15	3-Jun-23
PALESTINE	14	0	0	6	0	1	0	1.58	92.86	33	0	0	32	0	0	0	1.64	100.00	4-Jun-23
QATAR	9	0	0	3	0	0	0	4.88	77.78	11	0	0	11	0	0	0	2.44	72.73	4-Jun-23
SAUDI ARABIA	112	0	0	75	0	0	0	3.16	96.43	274	0	0	274	0	0	0	3.18	97.45	4-Jun-23
SOMALIA	181	0	0	152	2	1	1	4.75	96.13	356	0	0	349	6	0	0	4.28	97.47	4-Jun-23
SUDAN	179	0	0	154	0	5	2	2.06	97.21	650	0	0	649	1	0	0	3.25	97.08	13-Apr-23
SYRIA	128	0	0	111	0	0	0	3.89	97.66	382	0	0	382	0	0	0	4.96	94.76	3-Jun-23
TUNISIA	38	0	0	33	0	0	0	3.08	73.68	55	0	0	55	0	0	0	1.91	65.45	2-Jun-23
U.A.E.	26	0	0	7	0	9	0	4.15	92.31	66	0	0	66	0	0	0	4.47	96.97	23-May-23
YEMEN	443	0	0	263	0	12	4	6.54	87.36	1377	0	1	1214	162	0	0	8.76	86.64	3-Jun-23
EMR POL	11797	5	0	9961	2	156	11	9.53	89.12	31123	22	2	30905	170	20	0	10.77	88.24	

* 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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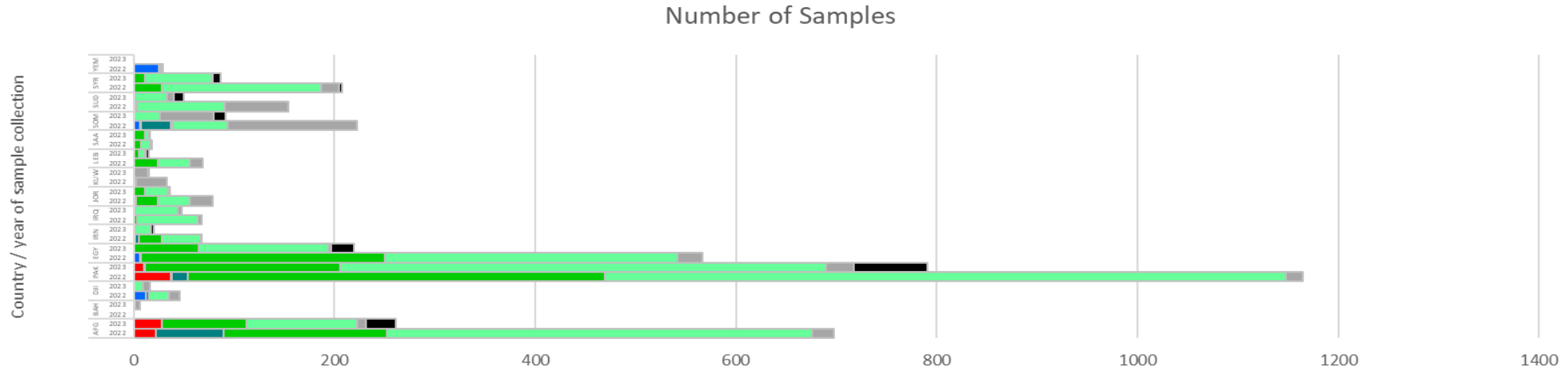
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results													Indicators				Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	2296	123	8	210	1701	147	4	4	77						97			2	2	5	9%	89%	100%	99%	4-Jun-23
Bahrain	NPL Oman / CDC	6				3		3														0%	100%		0%	29-May-23
Djibouti	NPL Kenya / CDC	5				2		3														0%	100%		100%	3-Jun-23
Egypt	RRL Egypt	653	5		46	537	57	9		3						4						7%	97%	100%	100%	31-May-23
Iran	NPL Iran / CDC	496	3		3	451	38	2		2						1						1%	100%	100%	99%	3-Jun-23
Iraq	NPL Iraq, RRL Egypt	384	3		24	327	24	6		2						2						7%	100%	100%	99%	2-Jun-23
Jordan	NPL Jordan, RRL Egypt	46			9	37																18%	91%		100%	31-May-23
Kuwait	RRL Kuwait / RIVM	29			3	22	3	2														10%	100%		100%	4-Jun-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	37				33	3	1														0%	100%			3-Jun-23
Libya	RRL Tunisia / RIVM	39			1	32	6															3%	94%		100%	29-May-23
Morocco	NPL Morocco, RRL Tunisia	50			2	41	2	5														3%	98%		91%	26-May-23
Oman	NPL Oman / CDC	15			1	10	4															18%	100%		100%	29-May-23
Pakistan	RRL Pakistan	6431	167	8	584	5114	451	67	1	105						133						8%	87%	100%	96%	4-Jun-23
Palestine & UNRWA		14				10	3	1														0%	44%		100%	4-Jun-23
Qatar	NPL Oman / CDC	8				7	1															0%	100%		100%	29-May-23
Saudi Arabia	NPL Saudi Arabia / CDC	112	1		4	107				1												3%	100%	100%	99%	28-May-23
Somalia	NPL Kenya / CDC	181	6		25	124	9	17		2			2	2		1					1	16%	5%		95%	4-Jun-23
Sudan	NPL Sudan / RRL Egypt	187	5		28	137		17								1						16%	99%	100%	100%	14-Apr-23
Syria	NPL Syria / RRL Egypt	123	1		3	106	13															3%	100%			3-Jun-23
Tunisia	RRL Tunisia	76	2		2	69		3					1			1						2%	97%	1	99%	29-May-23
U.A.E	NPL Oman / CDC	24			1	23																4%	100%		21%	29-May-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	292	10		41	210	31			6			1			8						14%	11%	100%	4%	3-Jun-23
Total EMR 2023		11504	326	16	987	9103	792	140	5	198			4	2		248			2	2	6	8%	86%	100%	95%	
Total EMR 2022		30459	1065	119	4831	24430		10	22 *	556	1		38	169 **		723		6	8	2	1	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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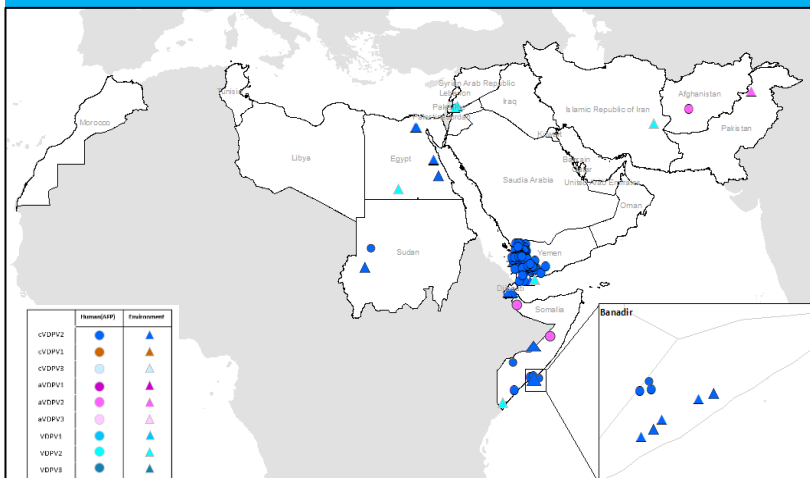


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	28					37	10																						
cVDPV2					12				6														6		1				25	
Wild+cVDPV2																														
Wild+aVDPV2																														
Wild+aVDPV3																														
aVDPV1																														
aVDPV2							1																							
aVDPV3																														
VDPV1																														
VDPV2									1	1	1			2									1						2	
VDPV3							1																							
SL2	68				3		16				4												30							
SL1/3	162	84					415	195	243	65	23	1	3	1	22	11			24	5	7	11	2		2	1	28	11	1	
Entero	424	110		1	20	9	679	484	292	129	39	16	61	43	32	23	2		32	6	9	4	55	26	88	32	159	67		
Negative	22	9		5	11	7	17	27	25	3	1		4	4	23	1	31	14	13	1	2	1	128	54	63	7	18	1		
Pending		30						74		22		3				1		1		3				12		10	3	8	1	

VDPVs isolations by Source and Country

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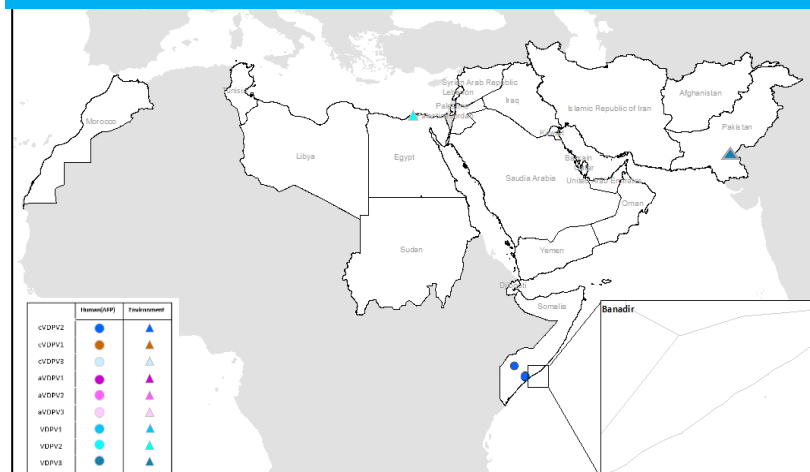
VDPV Isolates, EMR countries, 2022



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	2	02-03-23	3	1	11		5		31-08-22	19	5	26	1	6		22-12-22		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	25		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							
	Somalia					1		01-09-22																					
	Yemen																			1		24-04-22							
VDPV3	Pakistan																			1		14-02-23							

VDPV Isolates, EMR countries, 2023



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)