

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

- 3 cases of Wild Polio 1
 - 02 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

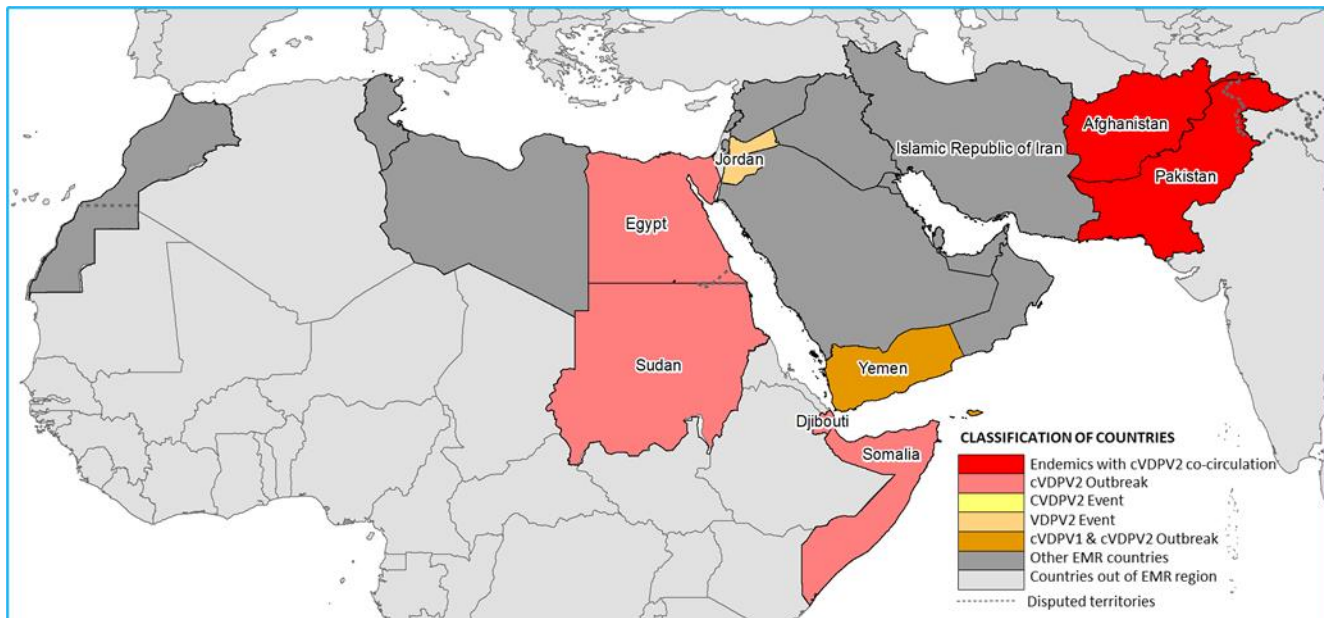
- 50 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 06 in Somalia
 - 01 in Sudan
 - 25 in Yemen

2023

- 28 samples Wild Polio 1
 - 22 in Afghanistan
 - 06 in Pakistan

- Zero samples of cVDPV2

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

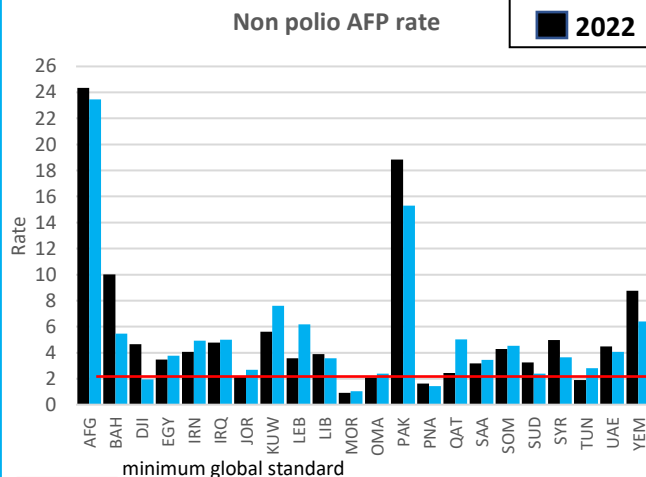
Wild Poliovirus

- Two new Wild Poliovirus cases in 2023 were reported from Afghanistan this week. Both WPV1 cases are from Nangarhar province from Batikot and Kot districts, with dates of onset 12th and 14th April 2023 respectively. The WPV1 cases count in 2023 up to date is 3 cases (2 from Afghanistan and 1 from Pakistan) while in 2022 the WPV1 cases count is 22 cases (2 from Afghanistan and 20 from Pakistan).
- Five new WPV1 positive environmental samples in 2023 were reported this week, four from Afghanistan and one from Pakistan as follows:
 - Four WPV1 ES from Afghanistan reported from Nangarhar province (2 from Jalalabad, 1 each from Behsud and Batikot districts) with all samples collected on 25th April 2023.
 - One WPV1 ES from Pakistan from district South Waziristan Lower, of Khyber Pakhtunkhwa province, with sample collected on 19th April 2023.
- The positive WPV1 ES count in 2023 is 28 up to date (22 in Afghanistan and 6 in Pakistan) while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

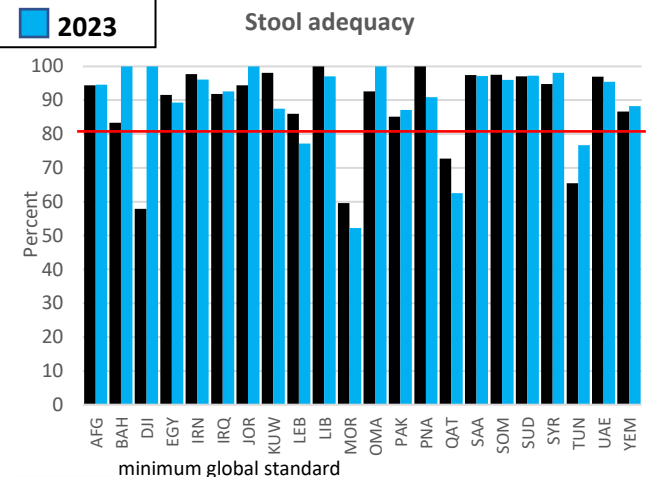
Circulating Vaccine derived poliovirus (VDPV)

- 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 cVDPV ES reported in 2023 till date.

Non polio AFP rate

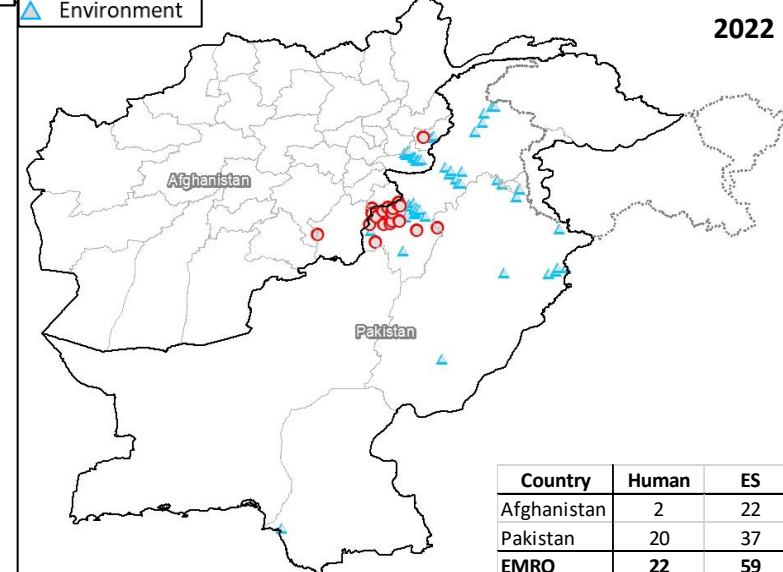
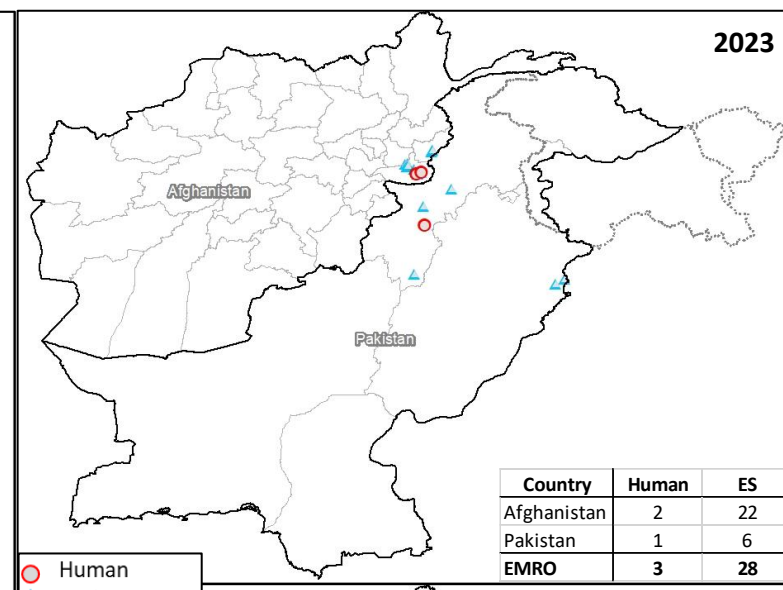
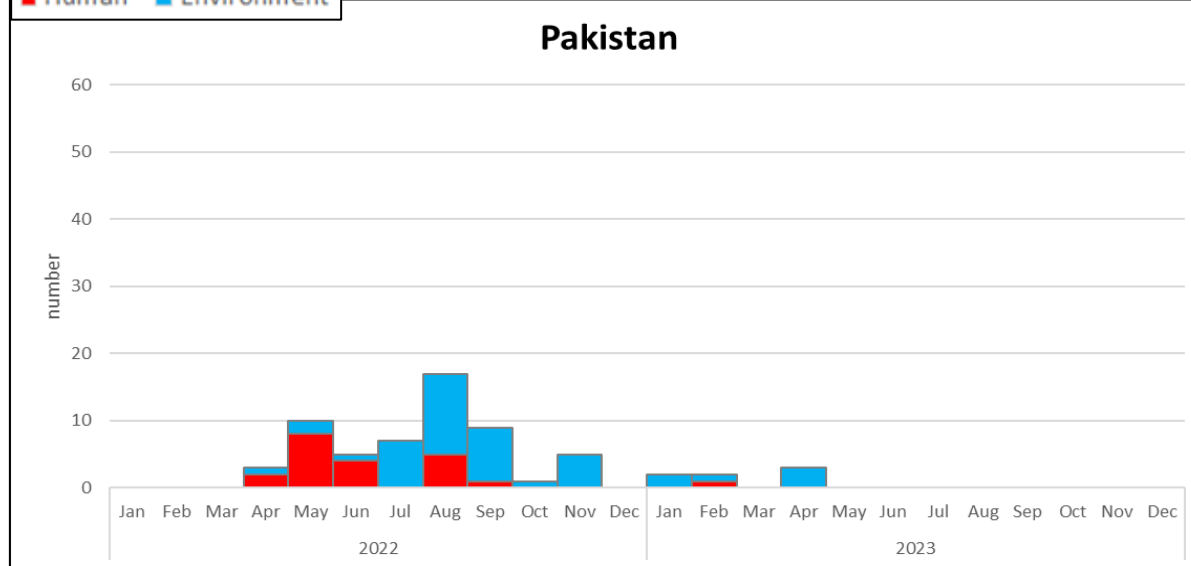
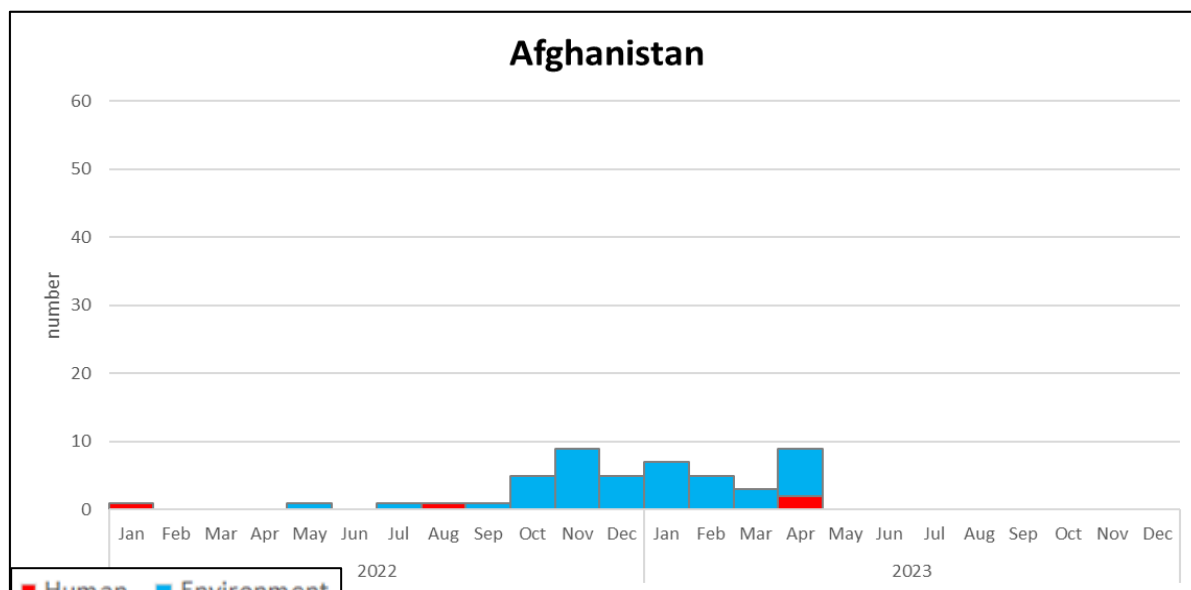


Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (May 14, 2022 to May 14, 2023)

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Source / Virus type	AFG	DJI	PAK	EGY	JOR	SOM	SUD	YEM	Total
Human (AFP only)	3		13			7	1	53	77
Wild	3		13						16
cVDPV2						5	1	53	59
aVDPV2						2			2
VDPV2									
Environment	43	1	41	2	1	4	1	16	109
Wild	43		41						84
cVDPV2		1		1		4	1	16	23
aVDPV2									
VDPV2				1	1				2
Total	46	1	54	2	1	11	2	69	186

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	14 May		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022							2023					
			2022	2023	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Afghanistan	4	2	1	2	0	0	1	0	0	0	0		0	0	2		14-Apr-23
Bahrain	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				
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				
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			
Pakistan	1	20	8	1	4	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				
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				
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						
EMR	5	22	9	3	4	0	6	1	0	0	0	0	1	0	2	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	1940	2	0	1538	0	20	3	23.46	94.54	5368	2	0	5365	1	0	0	24.34	94.41	14-May-23
BAHRAIN	6	0	0	2	0	1	0	5.46	100.00	30	0	0	30	0	0	0	10.02	83.33	14-May-23
DJIBOUTI	3	0	0	2	0	0	0	1.94	100.00	19	0	0	19	0	0	0	4.65	57.89	14-May-23
EGYPT	571	0	0	464	0	2	0	3.77	89.32	1394	0	0	1382	0	10	0	3.48	91.54	11-May-23
IRAN	380	0	0	355	0	0	0	4.93	96.05	824	0	0	824	0	0	0	4.06	97.69	13-May-23
IRAQ	322	0	0	239	0	8	0	4.99	92.55	835	0	0	835	0	0	0	4.78	91.86	12-May-23
JORDAN	43	0	0	39	0	0	0	2.69	100.00	89	0	0	89	0	0	0	2.14	94.38	10-May-23
KUWAIT	24	0	0	17	0	0	0	7.60	87.50	52	0	0	52	0	0	0	5.62	98.08	14-May-23
LEBANON	35	0	0	19	0	3	0	6.18	77.14	57	0	0	49	0	8	1	3.58	85.96	14-May-23
LIBYA	34	0	0	25	0	0	0	3.57	97.06	101	0	0	101	0	0	0	3.89	100.00	14-May-23
MOROCCO	46	0	0	18	0	11	1	1.04	52.17	94	0	0	84	0	10	0	0.92	59.57	8-May-23
OMAN	11	0	0	10	0	0	0	2.38	100.00	27	0	0	27	0	0	0	2.10	92.59	14-May-23
PAKISTAN	5491	1	0	4479	0	73	0	15.29	87.12	19027	20	1	19004	0	2	0	18.85	85.16	14-May-23
PALESTINE	11	0	0	6	0	0	0	1.44	90.91	33	0	0	32	0	0	0	1.64	100.00	14-May-23
QATAR	8	0	0	0	0	2	0	5.02	62.50	11	0	0	11	0	0	0	2.44	72.73	14-May-23
SAUDI ARABIA	106	0	0	45	0	0	0	3.46	97.17	274	0	0	274	0	0	0	3.18	97.45	14-May-23
SOMALIA	149	0	0	116	2	1	1	4.52	95.97	356	0	0	349	6	0	0	4.28	97.47	14-May-23
SUDAN	179	0	0	154	0	3	0	2.38	97.21	650	0	0	649	1	0	0	3.25	97.08	13-Apr-23
SYRIA	104	0	0	93	0	0	0	3.66	98.08	382	0	0	382	0	0	0	4.96	94.76	13-May-23
TUNISIA	30	0	0	25	0	1	0	2.81	76.67	55	0	0	55	0	0	0	1.91	65.45	12-May-23
U.A.E.	22	0	0	4	0	7	0	4.07	95.45	66	0	0	66	0	0	0	4.47	96.97	5-May-23
YEMEN	375	0	0	196	0	27	21	6.41	88.27	1377	0	1	1212	162	2	0	8.76	86.64	13-May-23
EMR POL	9890	3	0	7846	2	159	26	9.24	89.70	31121	22	2	30891	170	32	1	10.77	88.25	

* 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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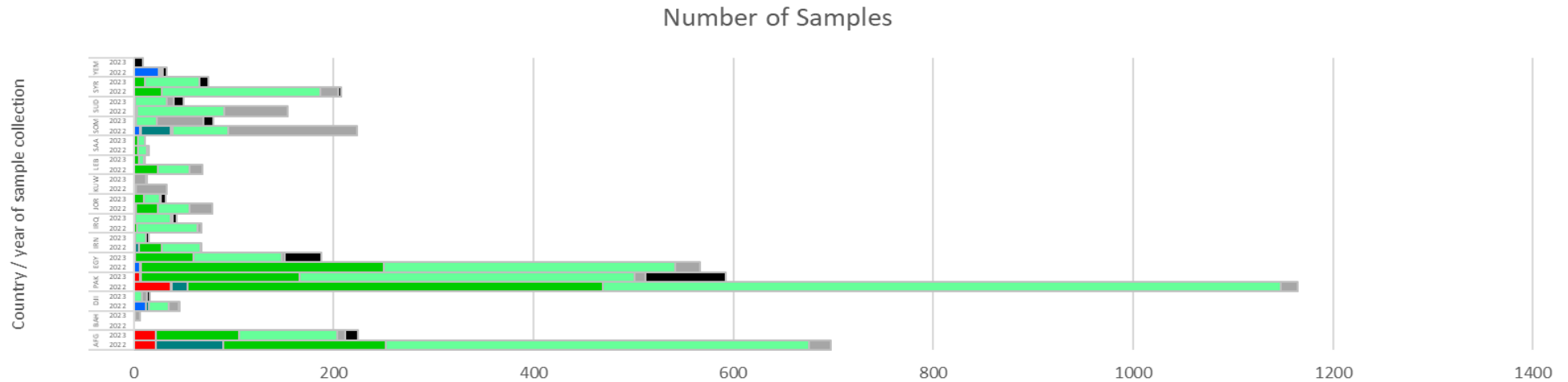
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases							Poliovirus intratypic differentiation results												Indicators					Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			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	1901	106	7	152	1303	158	111	2	68						87					5	8%	99%	100%	99%	14-May-23	
Bahrain	NPL Oman / CDC	3				3																0%	100%		0%	11-May-23	
Djibouti	NPL Kenya / CDC	3				2		1														0%	100%		100%	14-May-23	
Egypt	RRL Egypt	559	4		37	458	55	6		3						3						7%	98%	100%	100%	11-May-23	
Iran	NPL Iran / CDC	411	1		1	382	26	2		1												0%	100%	100%	99%	13-May-23	
Iraq	NPL Iraq, RRL Egypt	324	3		19	256	39	7		2						2						6%	100%	100%	100%	12-May-23	
Jordan	NPL Jordan, RRL Egypt	43			9	34																20%	95%		100%	14-May-23	
Kuwait	RRL Kuwait / RIVM	24			2	21		1														9%	100%		100%	14-May-23	
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	25				25																0%	100%			11-May-23	
Libya	RRL Tunisia / RIVM	33			1	28	4															3%	93%		100%	12-May-23	
Morocco	NPL Morocco, RRL Tunisia	44			2	38	4															3%	98%		90%	12-May-23	
Oman	NPL Oman / CDC	11			1	9	1															11%	100%		100%	11-May-23	
Pakistan	RRL Pakistan	5377	154	7	419	4076	405	309	1	94						122						8%	97%	100%	97%	14-May-23	
Palestine & UNRWA		11				8	2	1														0%	43%		100%	14-May-23	
Qatar	NPL Oman / CDC	6				6																0%	100%		100%	11-May-23	
Saudi Arabia	NPL Saudi Arabia / CDC	103	1		4	96		2		1												4%	100%	100%	99%	4-May-23	
Somalia	NPL Kenya / CDC	149	4		16	98	10	21		1			2	2								14%	4%		95%	14-May-23	
Sudan	NPL Sudan / RRL Egypt	187	5		28	137		17								1						16%	99%	100%	100%	14-Apr-23	
Syria	NPL Syria / RRL Egypt	102	1		2	89	10															3%	100%			11-May-23	
Tunisia	RRL Tunisia	73	2		2	62	7						1			1						3%	97%	1	98%	12-May-23	
U.A.E	NPL Oman / CDC	17			1	16																6%	100%		12%	11-May-23	
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	261	7		31	185		39		4			1			6						13%	13%	100%	5%	13-May-23	
Total EMR 2023		9667	288	14	727	7332	721	517	3	174			4	2		222					5	7%	94%	100%	95%		
Total EMR 2022		30460	1065	119	4831	24430		11	22 *	555	1		38	169 **		722		6	8	2	2	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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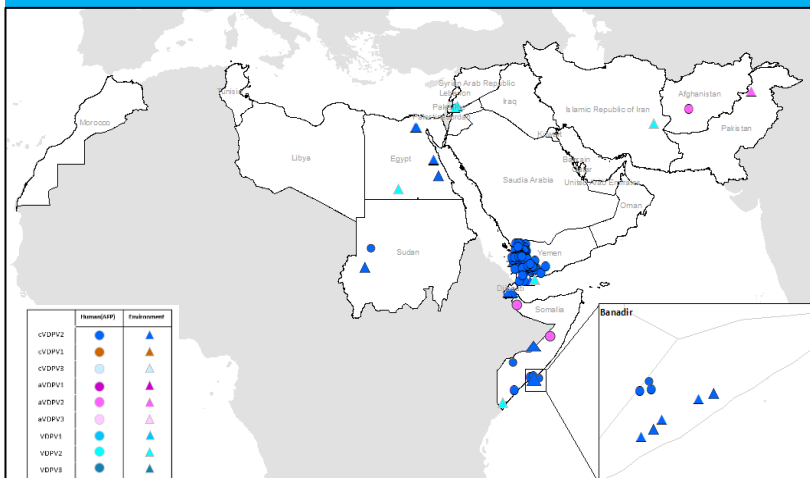


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	22					37	6																						
cVDPV2					12				6													6			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	2						1	
SL1/3	162	83					415	159	243	59	23	1	3	1	22	10			24	5	4	4	2		2	1	28	11	1	
Entero	424	99		1	20	8	679	335	292	88	39	11	61	36	32	16	2		32	5	9	7	56	21	88	32	159	55		
Negative	22	8		5	10	5	17	11	25	3	1		4	2	23	1	31	12	13	1	2		128	47	63	7	18			
Pending		12			1	3		80		37		3		4		5		1						10		10	3	9	4	9

VDPVs isolations by Source and Country

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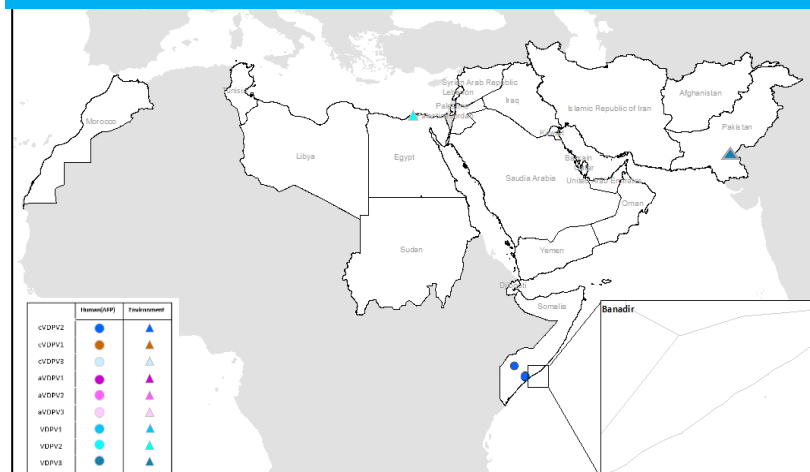
VDPV Isolates, EMR countries, 2022



VDPVs isolated from 2018-2023

VDPV isolate type	EMR Country	Sources																				
		AFP cases(Human)							Contacts(Human)							Environment						
		2018	2019	2020	2021	2022	2023	Most recent	2018	2019	2020	2021	2022	2023	Most recent	2018	2019	2020	2021	2022	2023	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
	Sudan			58		1		31-10-22			18				08-10-20			14		1		28-11-22
	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

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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)