

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

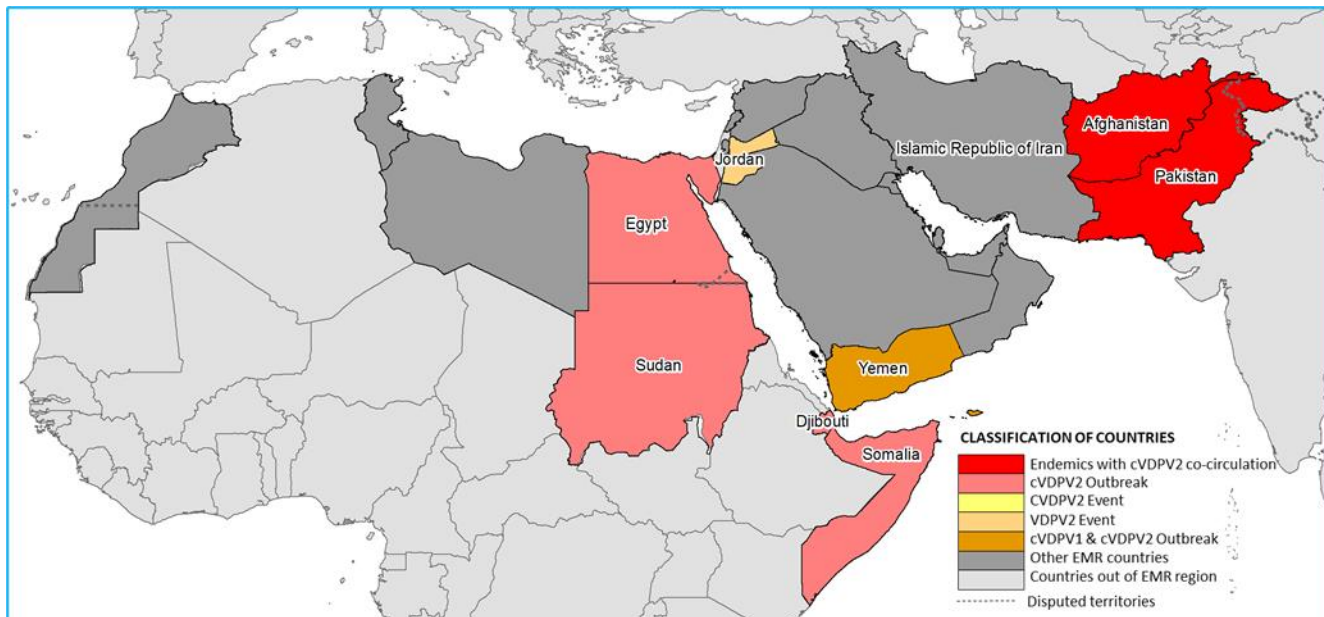
2023

- 21 samples Wild Polio 1
 - 18 in Afghanistan
 - 03 in Pakistan

- 50 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 06 in Somalia
 - 01 in Sudan
 - 25 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 isolates from human or environmental samples 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). In 2023 to date, the positive WPV1 ES count is 21 (18 in Afghanistan and 3 in Pakistan) while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

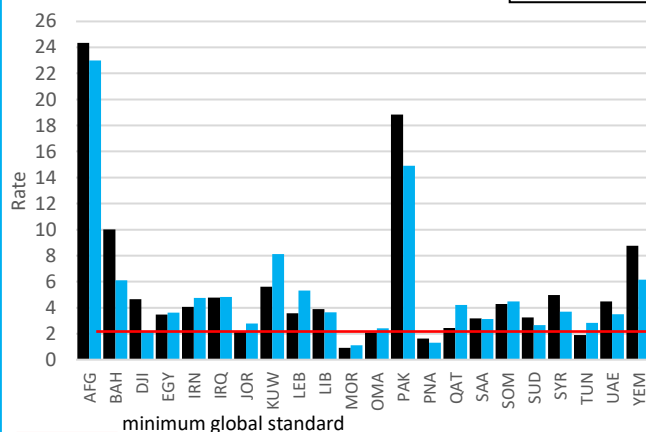
Circulating Vaccine derived poliovirus (VDPV)

- No new cVDPV isolates from human or environmental samples reported this week. 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 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.

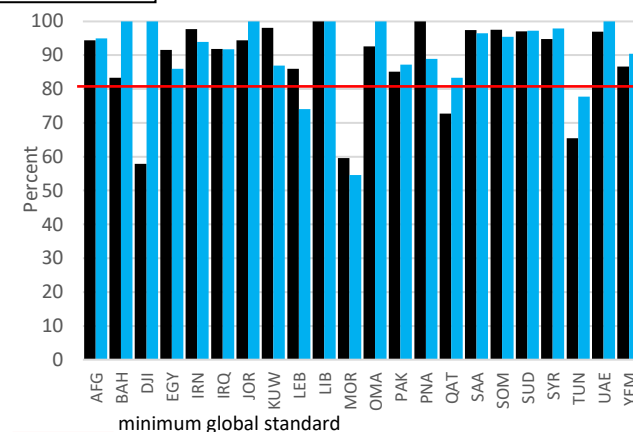
Other Matters

- The Eighth Intercountry meeting of WHO Polio Staff, Eastern Mediterranean Region, will be taking place next week from 7-9 May 2023 in Amman, Jordan.

Non polio AFP rate

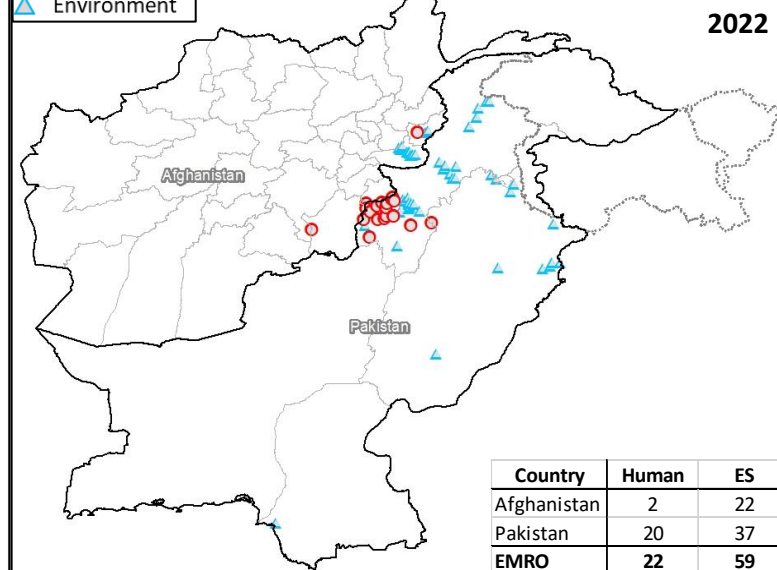
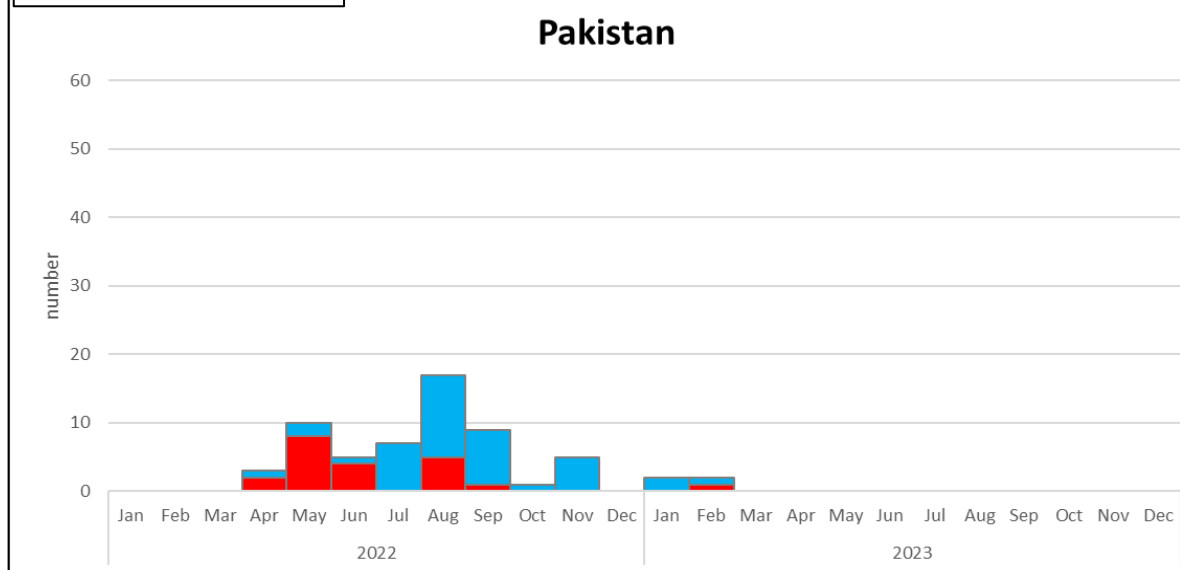
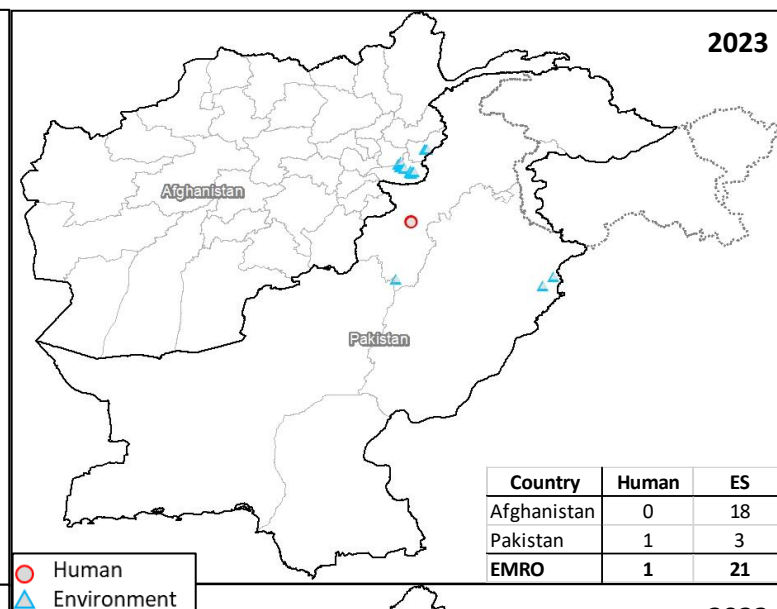
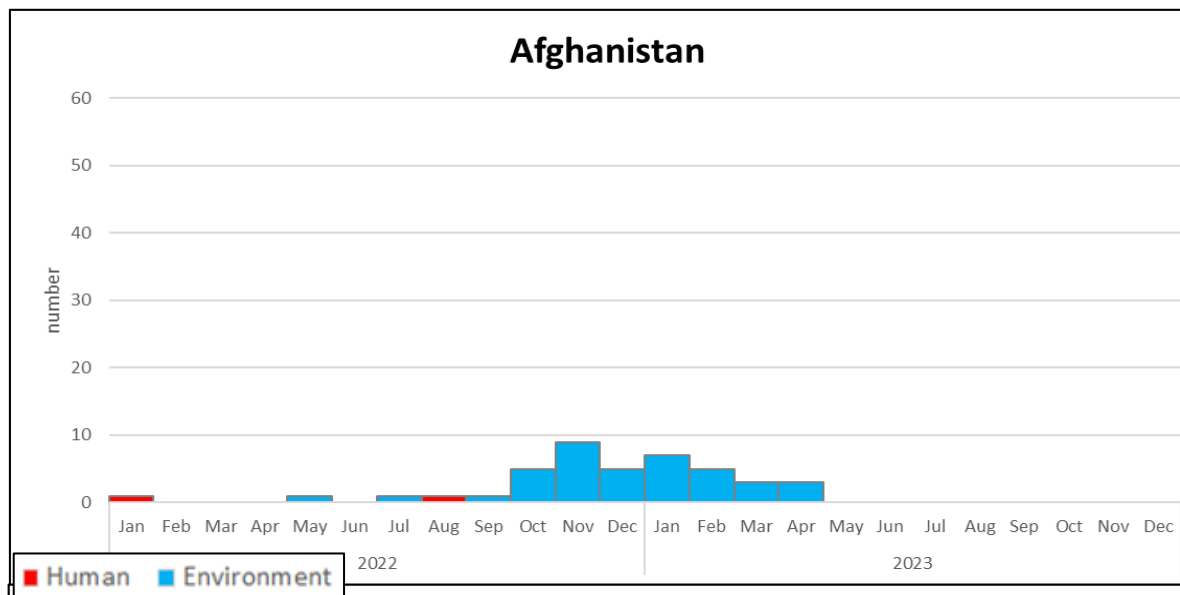


Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (Apr. 30, 2022 to Apr. 30, 2023)

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Source / Virus type	AFG	DJI	PAK	EGY	JOR	SOM	SUD	YEM	Total
Human (AFP only)	1		19			6	1	64	91
Wild	1		19						20
cVDPV2						4	1	64	69
aVDPV2						2			2
VDPV2									
Environment	40	1	39	2	1	4	1	16	104
Wild	40		39						79
cVDPV2		1		1		4	1	16	23
aVDPV2									
VDPV2				1	1				2
Total	41	1	58	2	1	10	2	80	195

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	30 April		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022								2023				
			2022	2023	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Afghanistan	4	2	1	0	0	0	0	1	0	0	0	0		0			29-Aug-22
Bahrain	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	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	0		
Lebanon ****	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		0	0		
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	1	20	2	1	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			
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		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	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	3	1	8	4	0	6	1	0	0	0	0	1	0	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	1700	0	0	1496	0	8	2	22.98	95.00	5368	2	0	5365	1	0	0	24.34	94.41	30-Apr-23
BAHRAIN	6	0	0	2	0	0	0	6.10	100.00	30	0	0	30	0	0	0	10.02	83.33	30-Apr-23
DJIBOUTI	3	0	0	2	0	0	0	2.17	100.00	19	0	0	19	0	0	0	4.65	57.89	29-Apr-23
EGYPT	493	0	0	387	0	1	0	3.63	86.00	1394	0	0	1382	0	10	0	3.48	91.54	27-Apr-23
IRAN	328	0	0	295	0	0	0	4.75	93.90	824	0	0	824	0	0	0	4.06	97.69	29-Apr-23
IRAQ	279	0	0	200	0	6	0	4.82	91.76	835	0	0	835	0	0	0	4.78	91.86	28-Apr-23
JORDAN	40	0	0	35	0	0	0	2.79	100.00	89	0	0	89	0	0	0	2.14	94.38	27-Apr-23
KUWAIT	23	0	0	17	0	0	0	8.13	86.96	52	0	0	52	0	0	0	5.62	98.08	30-Apr-23
LEBANON	27	0	0	1	0	10	8	5.32	74.07	57	0	0	49	0	8	1	3.58	85.96	22-Apr-23
LIBYA	31	0	0	25	0	0	0	3.64	100.00	101	0	0	101	0	0	0	3.89	100.00	29-Apr-23
MOROCCO	44	0	0	17	0	5	1	1.11	54.55	94	0	0	84	0	10	0	0.92	59.57	28-Apr-23
OMAN	10	0	0	10	0	0	0	2.42	100.00	27	0	0	27	0	0	0	2.10	92.59	30-Apr-23
PAKISTAN	4795	1	0	4157	0	123	0	14.90	87.17	19026	20	1	18979	0	26	0	18.85	85.16	30-Apr-23
PALESTINE	9	0	0	5	0	0	0	1.32	88.89	33	0	0	32	0	0	0	1.64	100.00	30-Apr-23
QATAR	6	0	0	0	0	0	0	4.20	83.33	11	0	0	11	0	0	0	2.44	72.73	30-Apr-23
SAUDI ARABIA	86	0	0	41	0	0	0	3.13	96.51	274	0	0	274	0	0	0	3.18	97.45	30-Apr-23
SOMALIA	132	0	0	106	1	1	1	4.48	95.45	356	0	0	349	6	0	0	4.28	97.47	30-Apr-23
SUDAN	179	0	0	154	0	1	0	2.66	97.21	650	0	0	649	1	0	0	3.25	97.08	13-Apr-23
SYRIA	94	0	0	73	0	0	0	3.69	97.87	382	0	0	382	0	0	0	4.96	94.76	30-Apr-23
TUNISIA	27	0	0	22	0	1	0	2.82	77.78	55	0	0	55	0	0	0	1.91	65.45	26-Apr-23
U.A.E.	17	0	0	0	0	5	0	3.51	100.00	66	0	0	66	0	0	0	4.47	96.97	19-Apr-23
YEMEN	323	0	0	143	0	12	6	6.16	90.40	1377	0	1	1212	162	2	0	8.76	86.64	29-Apr-23
EMR POL	8652	1	0	7188	1	173	18	9.03	89.63	31120	22	2	30866	170	56	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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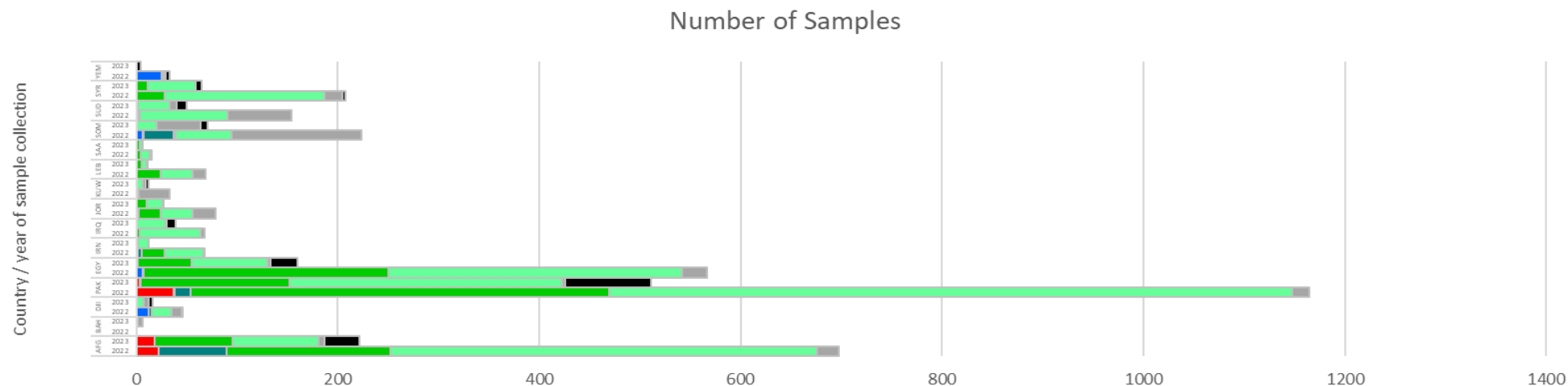
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators				Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	1688	98	7	146	1271	137	1		68						85						8%	100%	100%	99%	30-Apr-23
Bahrain	NPL Oman / CDC	3				3																0%	100%		0%	30-Apr-23
Djibouti	NPL Kenya / CDC	3				2		1														0%	100%		100%	29-Apr-23
Egypt	RRL Egypt	503	3		35	385	42	39		2						2						8%	97%	100%	100%	27-Apr-23
Iran	NPL Iran / CDC	367	1			335	31			1												0%	100%	100%	99%	29-Apr-23
Iraq	NPL Iraq, RRL Egypt	282	3		18	233	19	9		2						2						7%	100%	100%	100%	28-Apr-23
Jordan	NPL Jordan, RRL Egypt	41			9	31	1															21%	95%		100%	27-Apr-23
Kuwait	RRL Kuwait / RIVM	24			1	19	3	1														5%	100%		100%	30-Apr-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	25				25																0%	100%			30-Apr-23
Libya	RRL Tunisia / RIVM	30			1	26	3															4%	100%		100%	27-Apr-23
Morocco	NPL Morocco, RRL Tunisia	39			2	36	1															3%	100%		89%	30-Apr-23
Oman	NPL Oman / CDC	10			1	9																8%	100%		100%	30-Apr-23
Pakistan	RRL Pakistan	4705	147	7	401	3943	171	23	1	92						116						7%	100%	100%	97%	30-Apr-23
Palestine & UNRWA		9				7	1	1														0%	50%		100%	30-Apr-23
Qatar	NPL Oman / CDC	6				6																0%	100%		100%	30-Apr-23
Saudi Arabia	NPL Saudi Arabia / CDC	59	1		3	55				1												5%	100%	100%	100%	26-Mar-23
Somalia	NPL Kenya / CDC	132	4		13	90	13	12		1			2	1		1						12%	5%		95%	30-Apr-23
Sudan	NPL Sudan / RRL Egypt	187	5		28	137		17								1						16%	99%	100%	100%	14-Apr-23
Syria	NPL Syria / RRL Egypt	92			2	84	6															3%	100%			30-Apr-23
Tunisia	RRL Tunisia	66	2		2	57	3	2					1			1						3%	100%	1	98%	27-Apr-23
U.A.E	NPL Oman / CDC	17			1	16																6%	100%		12%	30-Apr-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	220	1		28	155		36								1						14%	16%	100%	5%	29-Apr-23
Total EMR 2023		8508	265	14	691	6925	431	142	1	167			3	1		209						7%	96%	100%	95%	
Total EMR 2022		30460	1065	119	4831	24428		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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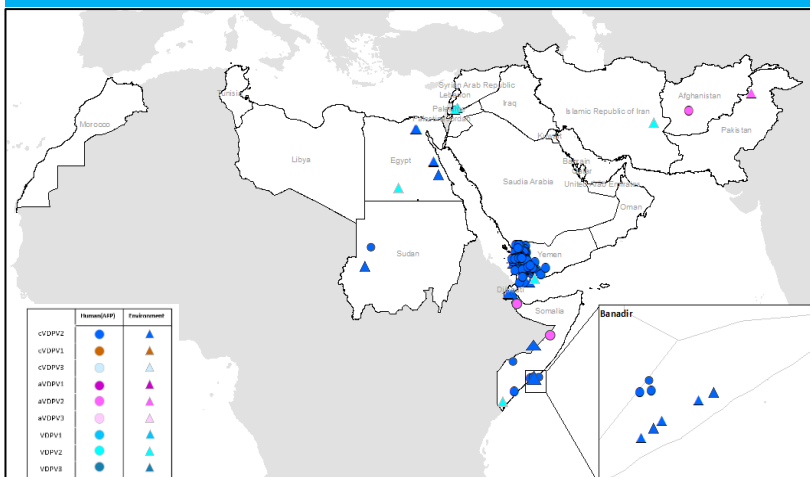


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	18					37	3																						
cVDPV2					12				6													6			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							1	
SL1/3	162	78					415	148	243	54	23	1	3		22	10			24	5	4	3	2		2	1	28	11	1	
Entero	424	85		1	20	7	679	271	292	75	39	11	61	29	32	16	2	6	32	5	9	3	56	20	88	32	159	48		
Negative	22	6		5	10	5	17	3	25	3	1		4	1	23	1	31	3	13	1	2		128	44	63	7	18			
Pending		34			1	4		85		27				9				3						7		10	3	6	4	4

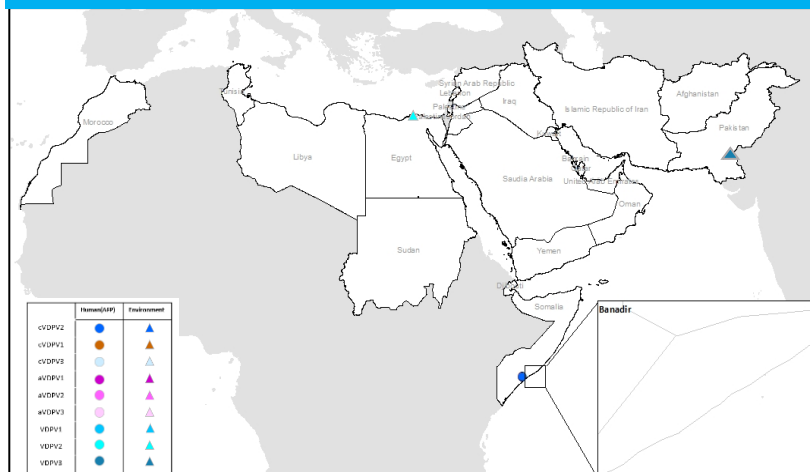
VDPVs isolations by Source and Country

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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	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									

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)