

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

- 6 cases of Wild Polio 1
 - 05 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

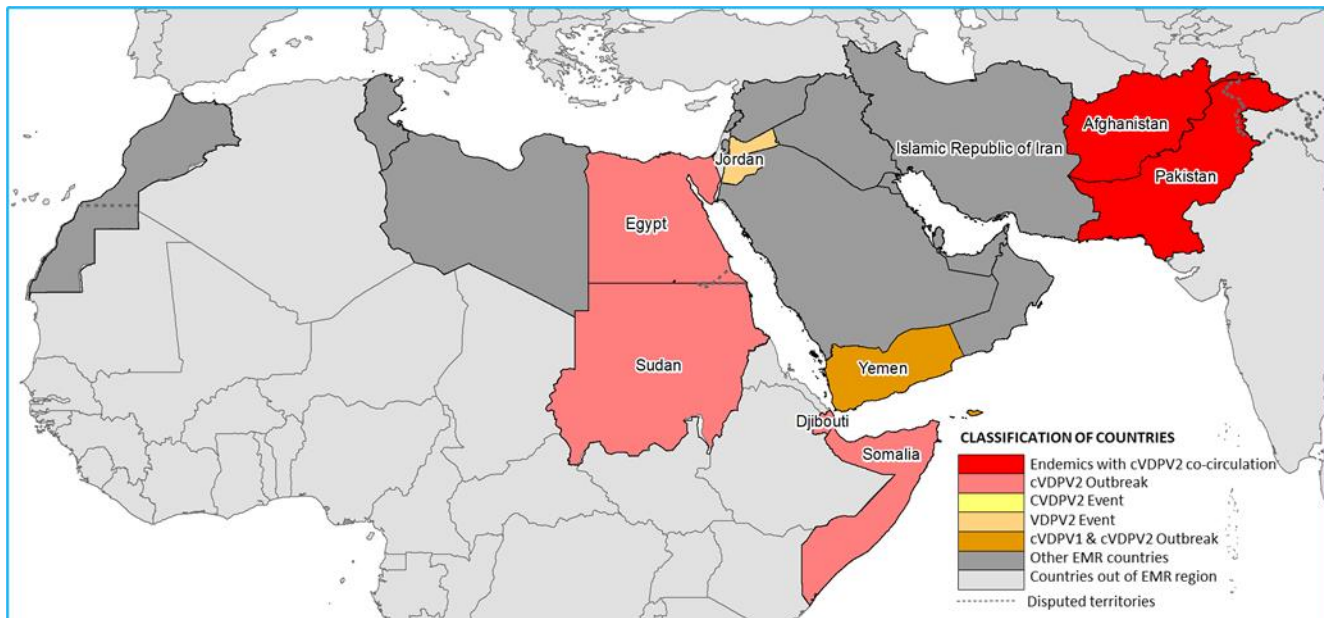
- 52 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 06 in Somalia
 - 01 in Sudan
 - 27 in Yemen

2023

- 44 samples Wild Polio 1
 - 32 in Afghanistan
 - 12 in Pakistan

- 6 samples of cVDPV2
 - 03 in Somalia
 - 03 in Yemen

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

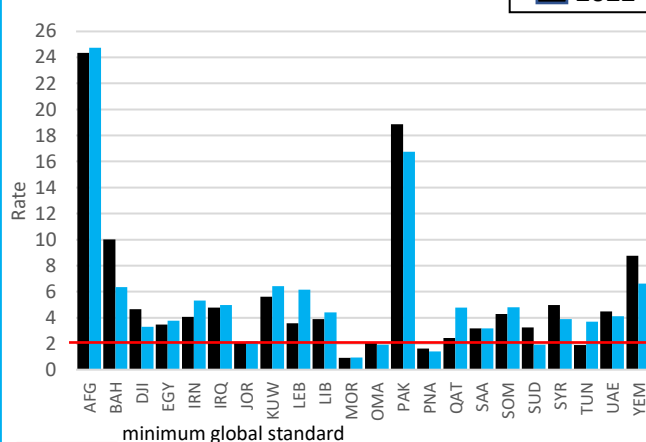
Wild Poliovirus

- No new WPV1 cases reported this week. The WPV1 cases count in 2023 to date is 6 (5 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).
- One new WPV1 positive environmental sample reported this week from Pakistan. The new ES is reported from Peshawar district of Khyber Pakhtunkhwa province with collection date of 4th July 2023. The positive WPV1 ES count in 2023 is 44 (32 in Afghanistan and 12 in Pakistan), while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

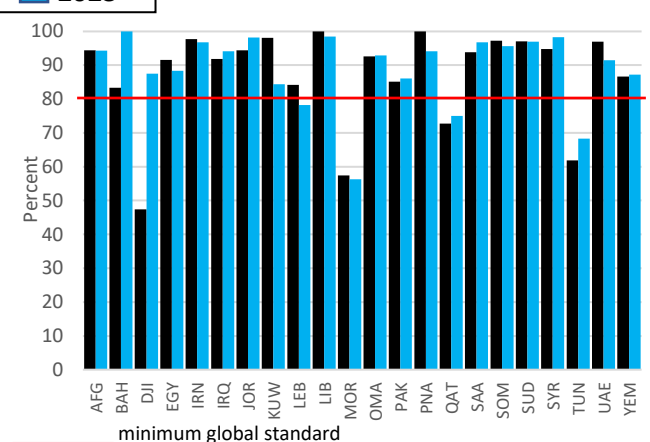
Vaccine derived poliovirus (VDPV)

- No new cVDPV2 cases reported this week. In 2023 the count of cVDPV2 cases remains 2 (both from Somalia) while the count in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
- Five new cVDPV2 positive environmental samples reported this week, three in 2023 and two in 2022. All five newly reported cVDPV2 ES are from Sanaa City province with latest collection on 29th May 2023. In 2023 the positive cVDPV2 ES count to date is 6 (3 each from Somalia and Yemen) and in 2022, the positive cVDPV2 ES count remains 52 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 27 in Yemen).
- One new VDPV2 positive environmental sample reported from Yemen from AlHudaidah province with collection date on 26th April 2023.

Non polio AFP rate



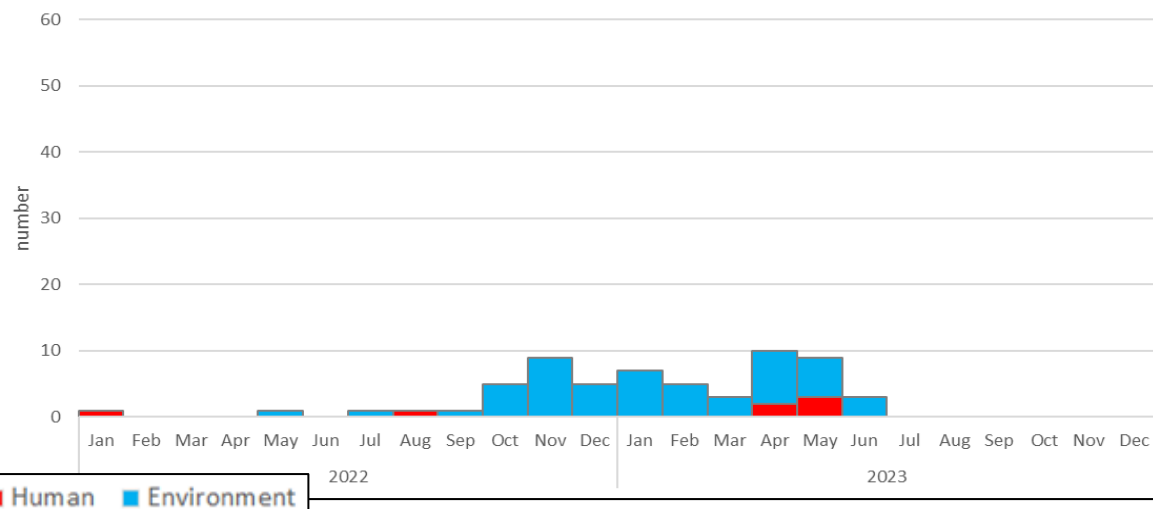
Stool adequacy



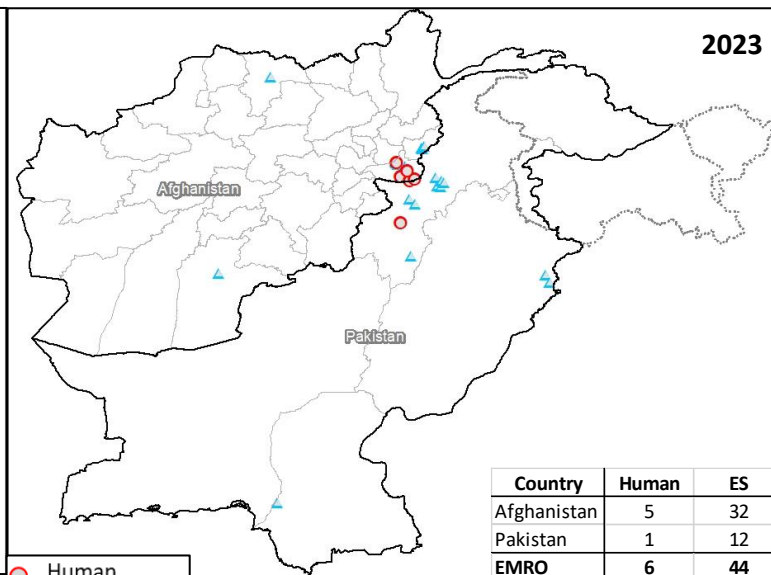
WPV1 Positive isolates from Afghanistan and Pakistan by source

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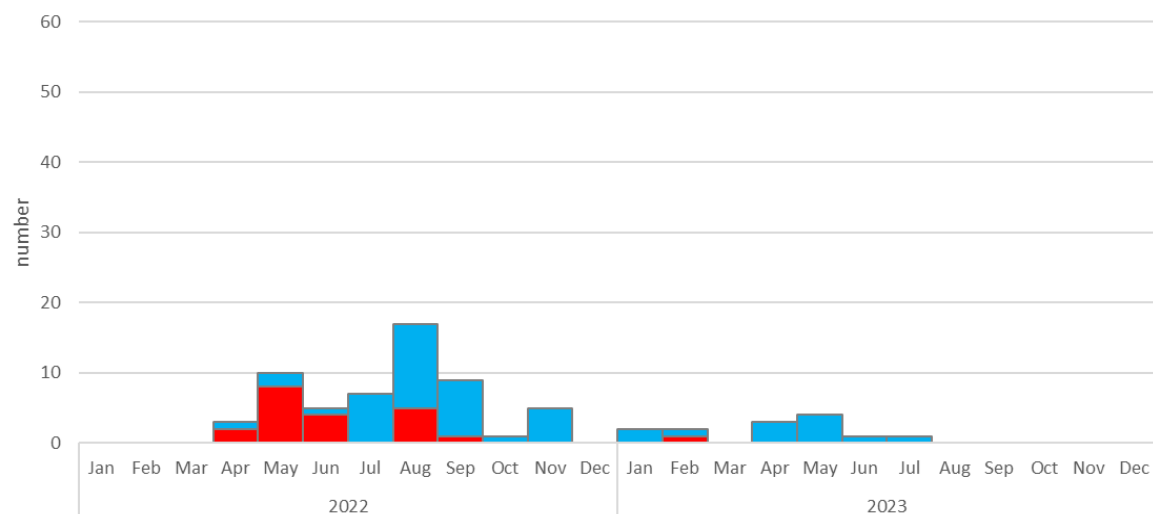
Afghanistan



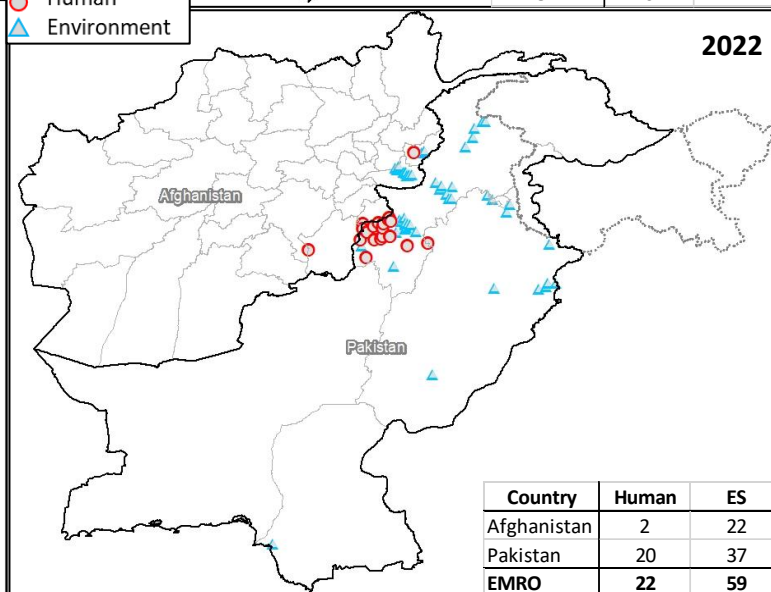
2023



Pakistan



2022



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

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	6	7		5	1	23	42
Wild	6	7					13
cVDPV2				3	1	23	27
aVDPV2				2			2
Environment	52	38	1	6	1	11	109
Wild	52	38					90
cVDPV2			1	6	1	11	19
aVDPV2							
Total	58	45	1	11	2	34	151

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 Type-1 cases by month of onset

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Country	Total year 2021	Total year 2022	23-Jul		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022					2023							
			2022	2023	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	
Afghanistan	4	2	1	5	1	0	0	0	0		0	0	2	3			18-May-23
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			
Egypt	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			
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	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	0		
Pakistan	1	20	14	1	5	1	0	0		0	1	0	0	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			
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						
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	15	6	6	1	0	0	0	0	1	0	2	3			18-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	3224	5	0	2950	0	10	2	24.74	94.29	5368	2	0	5365	1	0	0	24.34	94.41	30-Jul-23
BAHRAIN	11	0	0	7	0	0	0	6.36	100.00	30	0	0	30	0	0	0	10.02	83.33	30-Jul-23
DJIBOUTI	8	0	0	5	0	0	0	3.29	87.50	19	0	0	19	0	0	0	4.65	47.37	30-Jul-23
EGYPT	897	0	0	740	0	12	0	3.76	88.29	1394	0	0	1394	0	0	0	3.48	91.54	20-Jul-23
IRAN	648	0	0	611	0	0	0	5.31	96.45	824	0	0	824	0	0	0	4.06	97.69	29-Jul-23
IRAQ	507	0	0	471	0	13	0	4.98	94.08	835	0	0	835	0	0	0	4.78	91.86	28-Jul-23
JORDAN	55	0	0	52	0	0	0	2.19	98.18	89	0	0	89	0	0	0	2.14	94.38	16-Jul-23
KUWAIT	32	0	0	31	0	0	0	6.43	78.13	52	0	0	52	0	0	0	5.62	98.08	23-Jul-23
LEBANON	55	0	0	27	0	4	0	6.16	78.18	57	0	0	57	0	0	0	3.58	84.21	30-Jul-23
LIBYA	66	0	0	37	0	1	0	4.41	98.48	101	0	0	101	0	0	0	3.89	100.00	29-Jul-23
MOROCCO	64	0	0	29	0	28	3	0.93	56.25	94	0	0	89	0	5	0	0.92	57.45	21-Jul-23
OMAN	14	0	0	14	0	0	0	1.93	92.86	27	0	0	27	0	0	0	2.10	92.59	30-Jul-23
PAKISTAN	9457	1	0	8485	0	107	0	16.74	86.06	19032	20	1	19011	0	0	0	18.86	85.14	30-Jul-23
PALESTINE	17	0	0	8	0	2	1	1.41	94.12	33	0	0	32	1	0	0	1.64	100.00	30-Jul-23
QATAR	12	0	0	3	0	4	0	4.78	75.00	11	0	0	11	0	0	0	2.44	72.73	23-Jul-23
SAUDI ARABIA	154	0	0	116	0	0	0	3.19	96.10	274	0	0	274	0	0	0	3.18	93.80	30-Jul-23
SOMALIA	249	0	0	226	2	0	0	4.80	95.18	356	0	0	349	6	0	0	4.28	97.19	30-Jul-23
SUDAN	229	0	0	154	0	35	30	1.92	96.94	650	0	0	649	1	0	0	3.25	97.08	26-Jul-23
SYRIA	174	0	0	154	0	0	0	3.89	98.28	382	0	0	382	0	0	0	4.96	94.76	29-Jul-23
TUNISIA	63	0	0	54	0	0	0	3.69	68.25	55	0	0	55	0	0	0	1.91	61.82	28-Jul-23
U.A.E.	35	0	0	21	0	7	0	4.11	91.43	66	0	0	66	0	0	0	4.47	96.97	25-Jul-23
YEMEN	611	0	0	422	0	22	2	6.63	87.23	1377	0	1	1214	162	0	0	8.76	86.64	29-Jul-23
EMR POL	16582	6	0	14617	2	245	38	9.84	88.88	31126	22	2	30925	171	5	0	10.77	88.17	

* 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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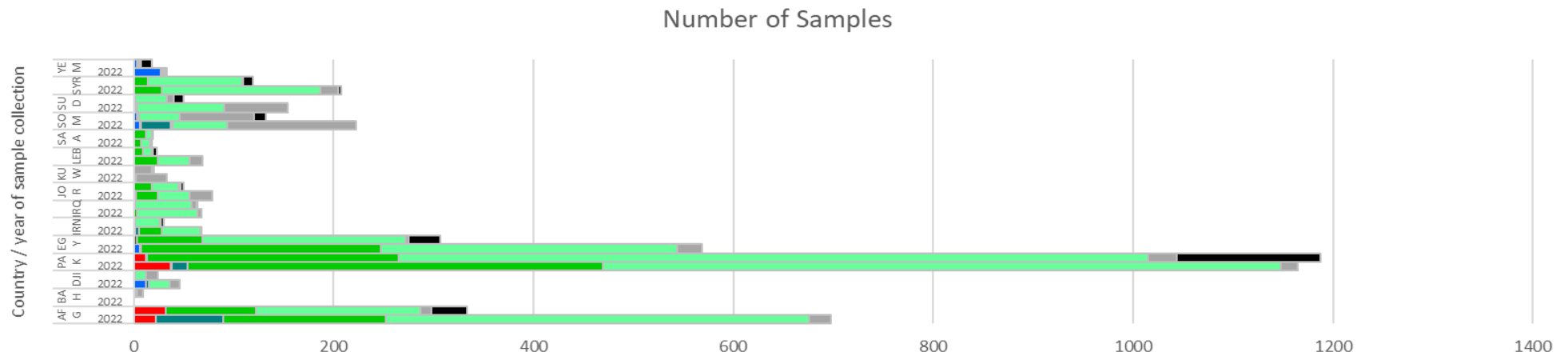
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators				Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	3205	161	17	395	2405	185	2	4 *	110						133			2	2		12%	91%	100%	98%	30-Jul-23
Bahrain	NPL Oman / CDC	8			1	7																6%	100%		25%	27-Jul-23
Djibouti	NPL Kenya / CDC	8			1	4		3														20%	100%		100%	30-Jul-23
Egypt	RRL Egypt	903	8		73	730	59	34		6						5						8%	96%	100%	100%	27-Jul-23
Iran	NPL Iran / CDC	659	7		8	616	28			5						3						1%	100%	100%	99%	28-Jul-23
Iraq	NPL Iraq, RRL Egypt	511	3		35	445	20	8		2						2						8%	100%	100%	99%	28-Jul-23
Jordan	NPL Jordan, RRL Egypt	57			11	45	1															18%	92%		100%	30-Jul-23
Kuwait	RRL Kuwait / RIVM	32			3	28		1														10%	100%		100%	23-Jul-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	42				42																1%	100%			9-Jul-23
Libya	RRL Tunisia / RIVM	56	1		1	47		7		1												2%	96%	1	100%	20-Jul-23
Morocco	NPL Morocco, RRL Tunisia	63			2	57	4															4%	98%		92%	28-Jul-23
Oman	NPL Oman / CDC	14			1	13																15%	100%		100%	27-Jul-23
Pakistan	RRL Pakistan	9244	241	18	1083	7275	359	171	1	152						192						10%	88%	100%	96%	30-Jul-23
Palestine & UNRWA		17	1			14	1	1		1			1									0%	36%		100%	30-Jul-23
Qatar	NPL Oman / CDC	12	1			10	1									1						0%	100%	1	100%	27-Jul-23
Saudi Arabia	NPL Saudi Arabia / CDC	152	1		5	146				1												3%	99%	100%	99%	24-Jul-23
Somalia	NPL Kenya / CDC	249	6		39	185	7	14		3			2	2		2						17%	4%		96%	30-Jul-23
Sudan	NPL Sudan / RRL Egypt	212	7		29	159		17					2			1						14%	99%	100%	54%	14-Apr-23
Syria	NPL Syria / RRL Egypt	159	1	1	7	145		5														5%	100%			9-Jul-23
Tunisia	RRL Tunisia	66	1		3	61		1								1						4%	95%	1	100%	20-Jul-23
U.A.E	NPL Oman / CDC	34			2	32																6%	94%		21%	27-Jul-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	456	16		74	332		35		9			1			12		1				15%	11%	100%	9%	29-Jul-23
Total EMR 2023		16159	455	36	1773	12798	665	299	6 *	290			6	2		352		1	2	2		10%	87%	100%	94%	
Total EMR 2022		30461	1066	119	4831	24432		9	22 *	556	2		38	169 **		723		6	8	2	1	13%	93%	89%	92%	

* In 2023 – one WPV1 case is confirmed due to positive contact while in 2022 - three WPV1 cases were 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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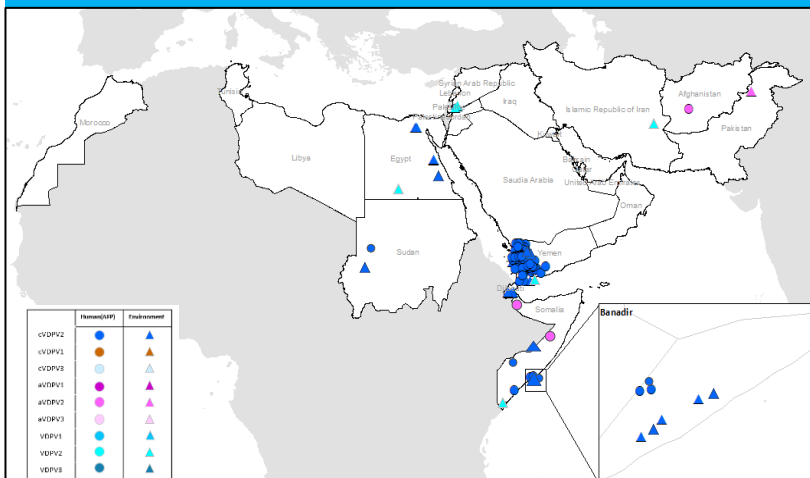


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	32					37	12																						
cVDPV2					12				6														6	3	1				27	3
Wild+cVDPV2																														
Wild+aVDPV2																														
Wild+aVDPV3																														
aVDPV1																														
aVDPV2							1		1																					
aVDPV3																														
VDPV1																														
VDPV2											1				2								1						2	1
VDPV3							1																							
VDPV2-n									3																					
SL2	68				3		16				4											30	2						1	1
SL1/3	162	90		1		1	415	252	240	66	23	1	3	1	22	18			24	9	7	12	2		2	1	28	14	2	2
Entero	424	165		2	21	11	679	750	297	203	39	25	61	57	32	27	2		32	9	9	6	55	41	88	32	159	94	1	
Negative	22	11		6	10	12	17	29	25	3	1	1	4	5	23	2	31	18	13	1	2	1	128	74	63	7	18	1		
Pending		36						143		32		3		1		3		2		4				12		10	3	10		11

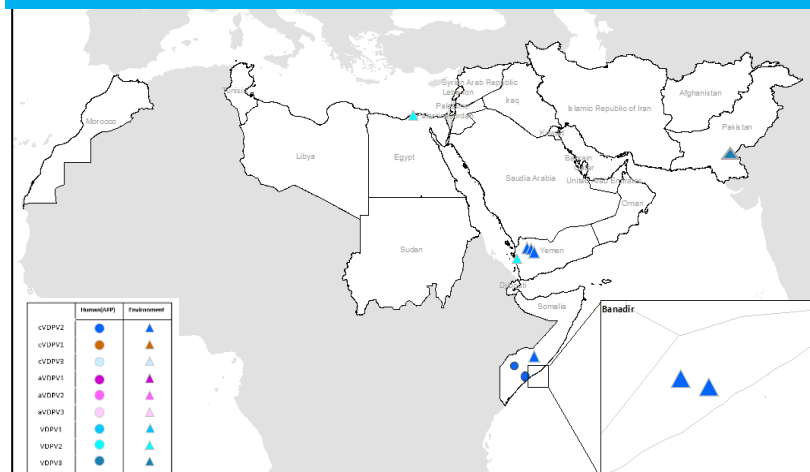
VDPVs isolations by Source and Country

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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						
		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	3	25-05-23
	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	27	3		29-05-23
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	67	1		12-01-22
	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														
VDPV2	Egypt																	1				11-07-21
	Iran																			1		04-02-22
	Jordan																		2			25-05-22
	Somalia					1		01-09-22												1		22-04-23
	Yemen																		3	1		26-04-23
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)