

## 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**

- 7 cases of Wild Polio 1
  - 05 in Afghanistan
  - 02 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

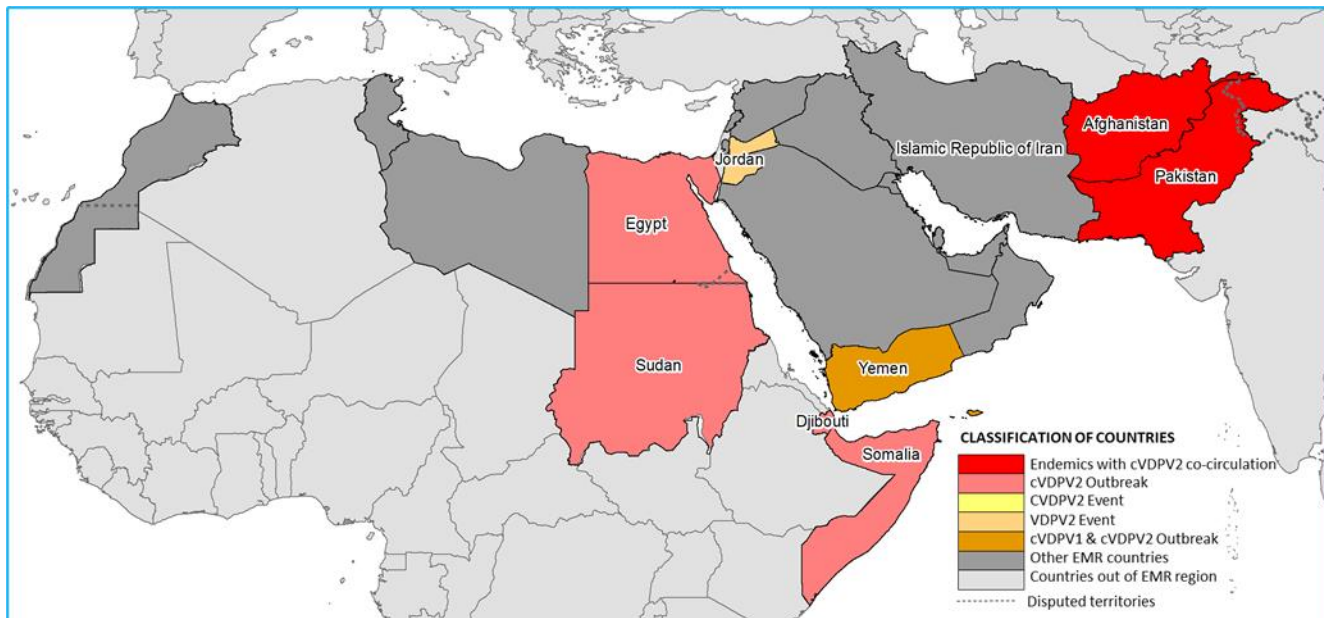
- 52 samples cVDPV2
  - 06 in Egypt
  - 12 in Djibouti
  - 06 in Somalia
  - 01 in Sudan
  - 27 in Yemen

**2023**

- 47 samples Wild Polio 1
  - 33 in Afghanistan
  - 14 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

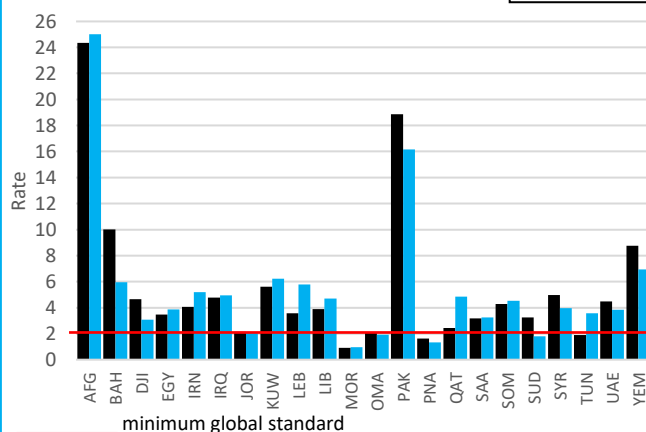
### Wild Poliovirus

- No new WPV1 cases reported this week. The WPV1 cases count in 2023 to date remains 7 (5 from Afghanistan and 2 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 Afghanistan. The new positive sample was reported from Batikot district of Nangarhar province with collection date of 23<sup>rd</sup> July 2023. The positive WPV1 ES count in 2023 to date is 47 (33 in Afghanistan and 14 in Pakistan), while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

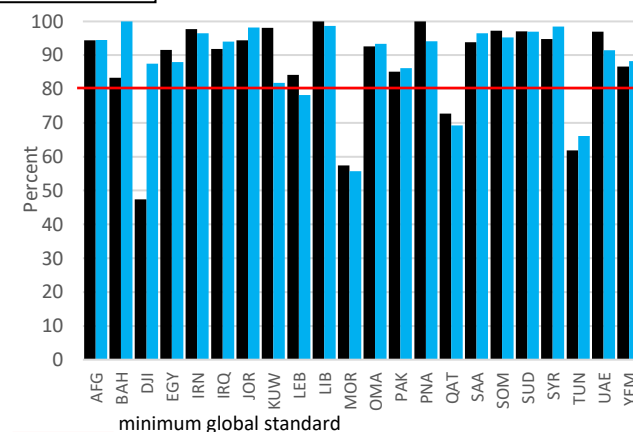
### Vaccine derived poliovirus (VDPV)

- No new cVDPV2 isolates reported this week. In 2023 the count of cVDPV2 cases remains 2 (both from Somalia) and in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen). While the positive cVDPV2 ES count in 2023 to date is 6 (3 each from Somalia and Yemen) and in 2022, remains 52 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 27 in Yemen).
- One VDPV2 isolate has been reported from Egypt by GPLN. This is under further lab characterization and will be reported after final result is available.

### Non polio AFP rate



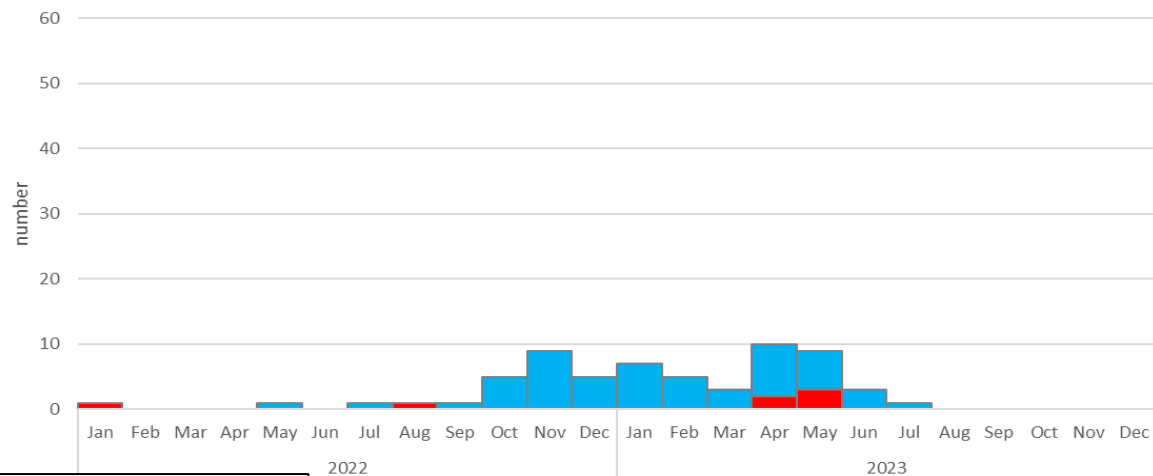
### Stool adequacy



# WPV1 Positive isolates from Afghanistan and Pakistan by source

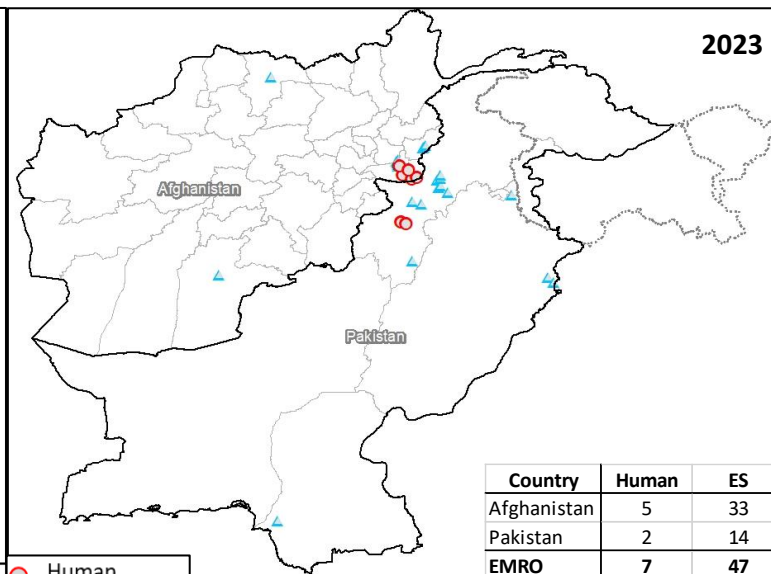
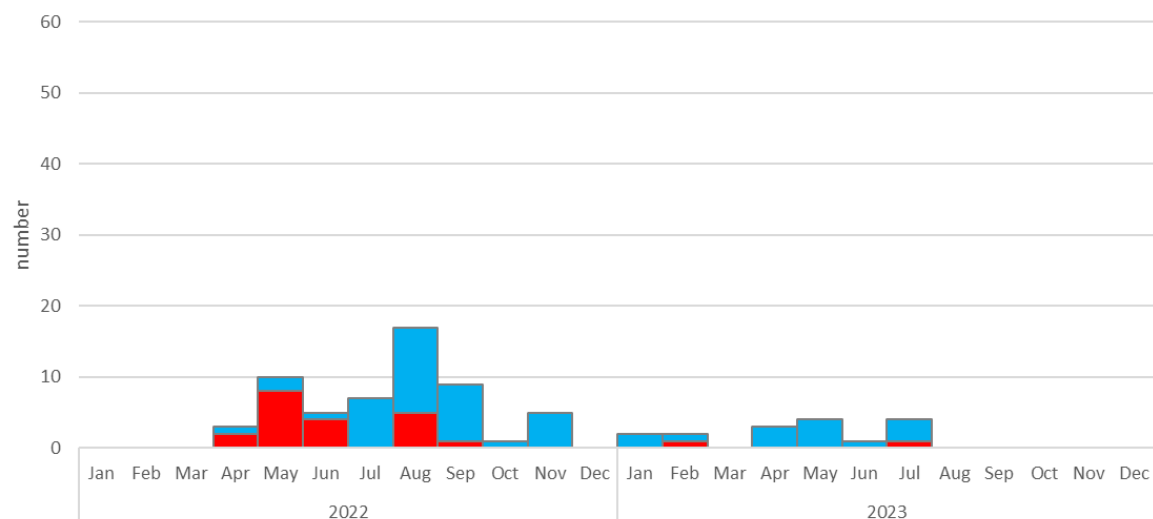
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## Afghanistan

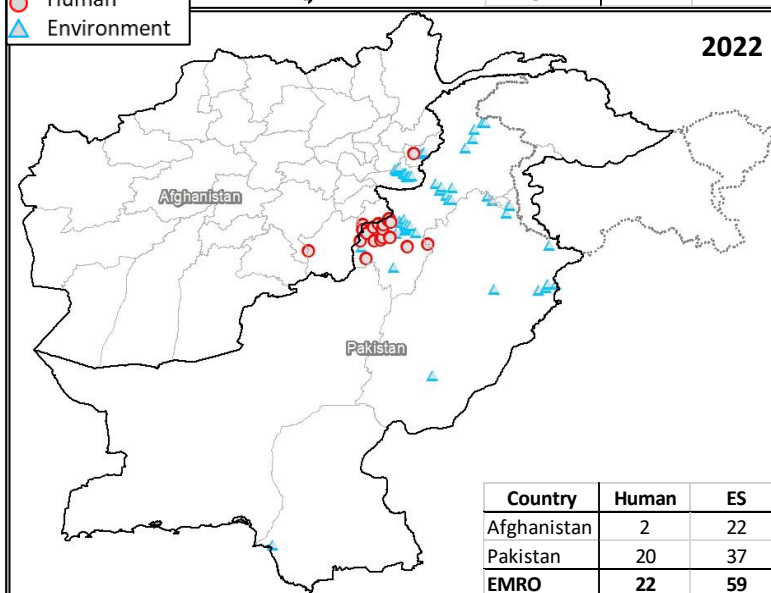


■ Human ■ Environment

## Pakistan



○ Human  
▲ Environment



# Virus isolation by country, last 12 months (Aug. 13, 2022, to Aug. 13, 2023)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
<b>Human (AFP only)</b>	<b>6</b>	<b>5</b>		<b>5</b>	<b>1</b>	<b>17</b>	<b>34</b>
Wild	6	5					11
cVDPV2				3	1	16	20
aVDPV2				2		1	3
VDPV2							
<b>Environment</b>	<b>53</b>	<b>34</b>	<b>2</b>	<b>6</b>	<b>1</b>	<b>15</b>	<b>111</b>
Wild	53	34					87
cVDPV2			1	6	1	14	22
aVDPV2							
VDPV2			1			1	2
<b>Total</b>	<b>59</b>	<b>39</b>	<b>2</b>	<b>11</b>	<b>2</b>	<b>32</b>	<b>145</b>

*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	13 August		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022				2023								
			2022	2023	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Afghanistan	4	2	1	5	0	0	0	0		0	0	2	3	0			18-May-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						
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				
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				
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	1	20	17	2	1	0	0		0	1	0	0	0		1		11-Jul-23
Palestine ****	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							
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	18	7	1	0	0	0	0	1	0	2	3	0	1	0	11-Jul-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	3474	5	0	3189	0	6	2	25.00	94.44	5368	2	0	5365	1	0	0	24.34	94.41	13-Aug-23
BAHRAIN	11	0	0	7	0	0	0	5.96	100.00	30	0	0	30	0	0	0	10.02	83.33	13-Aug-23
DJIBOUTI	8	0	0	5	0	0	0	3.09	87.50	19	0	0	19	0	0	0	4.65	47.37	5-Aug-23
EGYPT	983	0	0	829	0	1	0	3.87	88.00	1394	0	0	1394	0	0	0	3.48	91.54	10-Aug-23
IRAN	674	0	0	659	0	0	0	5.18	96.44	824	0	0	824	0	0	0	4.06	97.69	12-Aug-23
IRAQ	538	0	0	496	0	13	0	4.96	94.05	835	0	0	835	0	0	0	4.78	91.86	11-Aug-23
JORDAN	55	0	0	52	0	0	0	2.06	98.18	89	0	0	89	0	0	0	2.14	94.38	16-Jul-23
KUWAIT	33	0	0	32	0	0	0	6.22	81.82	52	0	0	52	0	0	0	5.62	98.08	13-Aug-23
LEBANON	55	0	0	27	0	8	2	5.78	78.18	57	0	0	57	0	0	0	3.58	84.21	30-Jul-23
LIBYA	75	0	0	55	0	0	0	4.69	98.67	101	0	0	101	0	0	0	3.89	100.00	12-Aug-23
MOROCCO	70	0	0	29	0	30	3	0.96	55.71	94	0	0	89	0	5	0	0.92	57.45	4-Aug-23
OMAN	15	0	0	14	0	0	0	1.93	93.33	27	0	0	27	0	0	0	2.10	92.59	13-Aug-23
PAKISTAN	9739	2	0	8882	0	146	0	16.16	86.19	19032	20	1	19011	0	0	0	18.86	85.14	6-Aug-23
PALESTINE	17	0	0	11	0	1	1	1.33	94.12	33	0	0	32	1	0	0	1.64	100.00	6-Aug-23
QATAR	13	0	0	3	0	5	0	4.86	69.23	11	0	0	11	0	0	0	2.44	72.73	13-Aug-23
SAUDI ARABIA	168	0	0	121	0	0	0	3.26	96.43	274	0	0	274	0	0	0	3.18	93.80	13-Aug-23
SOMALIA	251	0	0	236	2	0	0	4.54	95.22	356	0	0	349	6	0	0	4.28	97.19	13-Aug-23
SUDAN	229	0	0	154	0	40	35	1.80	96.94	650	0	0	649	1	0	0	3.25	97.08	26-Jul-23
SYRIA	190	0	0	160	0	0	0	3.98	98.42	382	0	0	382	0	0	0	4.96	94.76	12-Aug-23
TUNISIA	65	0	0	60	0	0	0	3.57	66.15	55	0	0	55	0	0	0	1.91	61.82	4-Aug-23
U.A.E.	35	0	0	21	0	10	0	3.85	91.43	66	0	0	66	0	0	0	4.47	96.97	7-Aug-23
YEMEN	681	0	0	463	1	21	2	6.93	88.25	1377	0	1	1214	162	0	0	8.76	86.64	12-Aug-23
EMR POL	17379	7	0	15505	3	281	45	9.67	89.05	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)

# Laboratory investigation of AFP cases with paralysis onset in 2023

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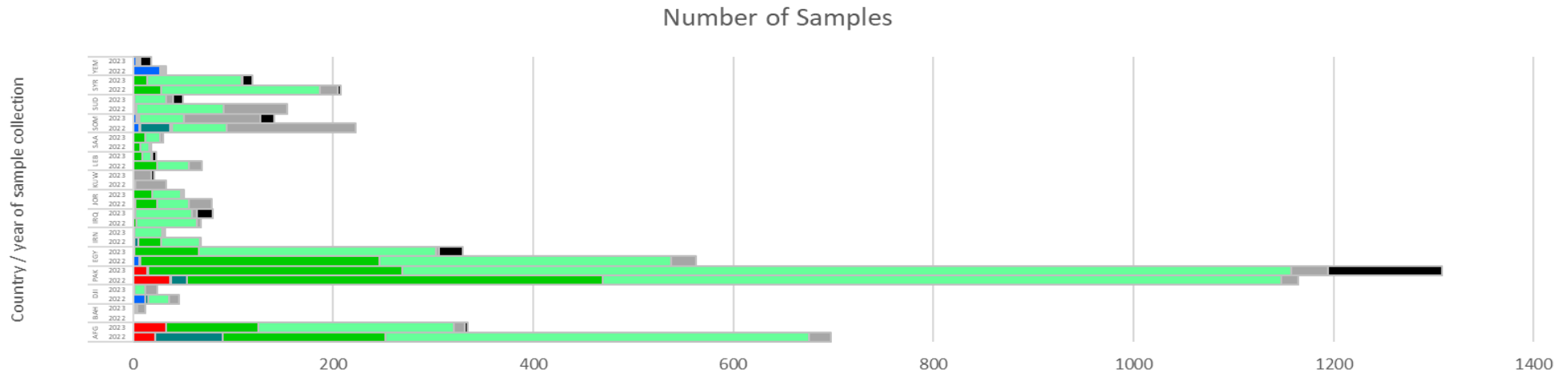
Country	Polio laboratories		AFP cases with specimens	Preliminary virus isolation results of AFP cases					Poliovirus intratypic differentiation results														Indicators				Latest report Date
	ITD / Nucleotide Sequencing			Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			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	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild									
Afghanistan	RRL Pakistan		3431	171	18	438	2576	117	3	4 *	117						143			2	2		12%	91%	100%	98%	13-Aug-23
Bahrain	NPL Oman / CDC		11			1	8	2															6%	100%		33%	13-Aug-23
Djibouti	NPL Kenya / CDC		8			1	4		3														20%	100%		100%	5-Aug-23
Egypt	RRL Egypt		959	10		89	802	53	6		6				1		6						8%	96%	100%	100%	10-Aug-23
Iran	NPL Iran / CDC		699	7		9	667	16			5						3						1%	100%	100%	99%	12-Aug-23
Iraq	NPL Iraq, RRL Egypt		542	3		35	465	30	9		2						2						8%	100%	100%	99%	10-Aug-23
Jordan	NPL Jordan, RRL Egypt		57			12	45																20%	93%		100%	10-Aug-23
Kuwait	RRL Kuwait / RIVM		33			3	28	1	1														10%	100%		100%	13-Aug-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt		54				42		12														1%	100%			31-Jul-23
Libya	RRL Tunisia / RIVM		56	1		1	54				1												2%	96%	1	100%	31-Jul-23
Morocco	NPL Morocco, RRL Tunisia		70			2	62	6															4%	98%		92%	11-Aug-23
Oman	NPL Oman / CDC		15			1	13	1															15%	100%		100%	13-Aug-23
Pakistan	RRL Pakistan		9982	246	20	1289	7926	378	25	2	155						197						11%	89%	100%	96%	13-Aug-23
Palestine & UNRWA			17	1			16				1			1									0%	38%			6-Aug-23
Qatar	NPL Oman / CDC		13	1			11	1									1						0%	100%	1	100%	13-Aug-23
Saudi Arabia	NPL Saudi Arabia / CDC		152	1		5	146				1												3%	99%	100%	99%	30-Jul-23
Somalia	NPL Kenya / CDC		251	6		42	192	1	12		3			2	2		2						18%	4%		96%	13-Aug-23
Sudan	NPL Sudan / RRL Egypt		263	7		29	159	51	17					2			1						14%	99%	100%	54%	14-Apr-23
Syria	NPL Syria / RRL Egypt		172	1	1	8	150		12														5%	100%			31-Jul-23
Tunisia	RRL Tunisia		69	1		3	61		4								1						3%	95%	1	97%	31-Jul-23
U.A.E	NPL Oman / CDC		34			2	32																6%	94%		21%	13-Aug-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt		551	16	1	97	370		67		9			1	1		13						17%	10%	100%	8%	12-Aug-23
Total EMR 2023			17439	472	40	2067	13829	657	171	7 *	300			6	4		369			2	2		11%	88%	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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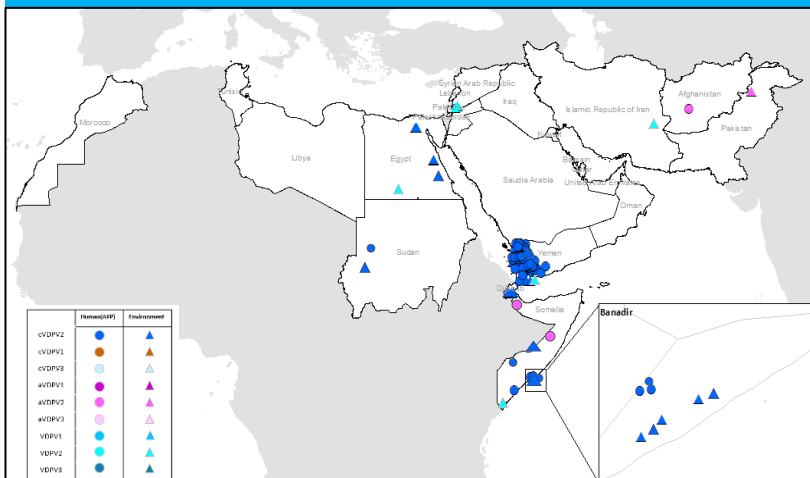


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	33					37	14																						
cVDPV2					12				6														6	3	1				27	3
Wild+cVDPV2																														
Wild+aVDPV2																														
Wild+aVDPV3																														
aVDPV1																														
aVDPV2							1		1																					
aVDPV3																														
VDPV1																														
VDPV2									1	1					2								1						2	1
VDPV3								1																						
SL2	68				3		16				4												30	2					1	1
SL1/3	162	92		2		1	415	254	239	65	23	1	3	2	22	19			24	9	7	12	2	1	2	1	28	14	2	2
Entero	424	196		2	21	11	679	889	292	237	39	28	61	57	32	29	2		32	9	9	15	55	45	88	32	159	94	1	
Negative	22	11		8	10	12	17	36	25	3	1	1	4	5	23	1	31	18	13	1	2	3	128	76	63	7	18	1		
Pending		3						114		24		2		16		2		3		4				14		10	3	10		11

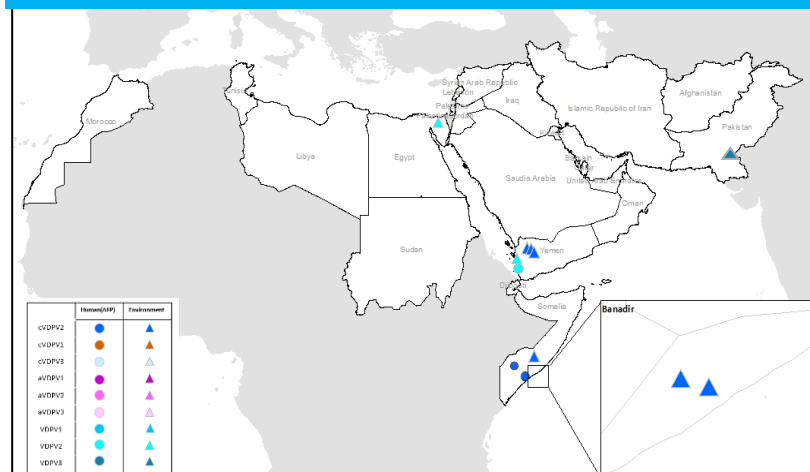
# VDPVs isolations by Source and Country

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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						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	3	25-05-23		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	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																					
	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	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								
	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												1	12-07-23								
	Iran																		1		04-02-22								
	Jordan																		2		25-05-22								
	Somalia					1		01-09-22												1	22-04-23								
	Yemen						1	09-05-23											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)