

## 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

- 3 cases of cVDPV2
  - 02 in Somalia
  - 01 in Yemen

- Zero case of cVDPV1



Sewage  
water  
sampling

### 2022

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

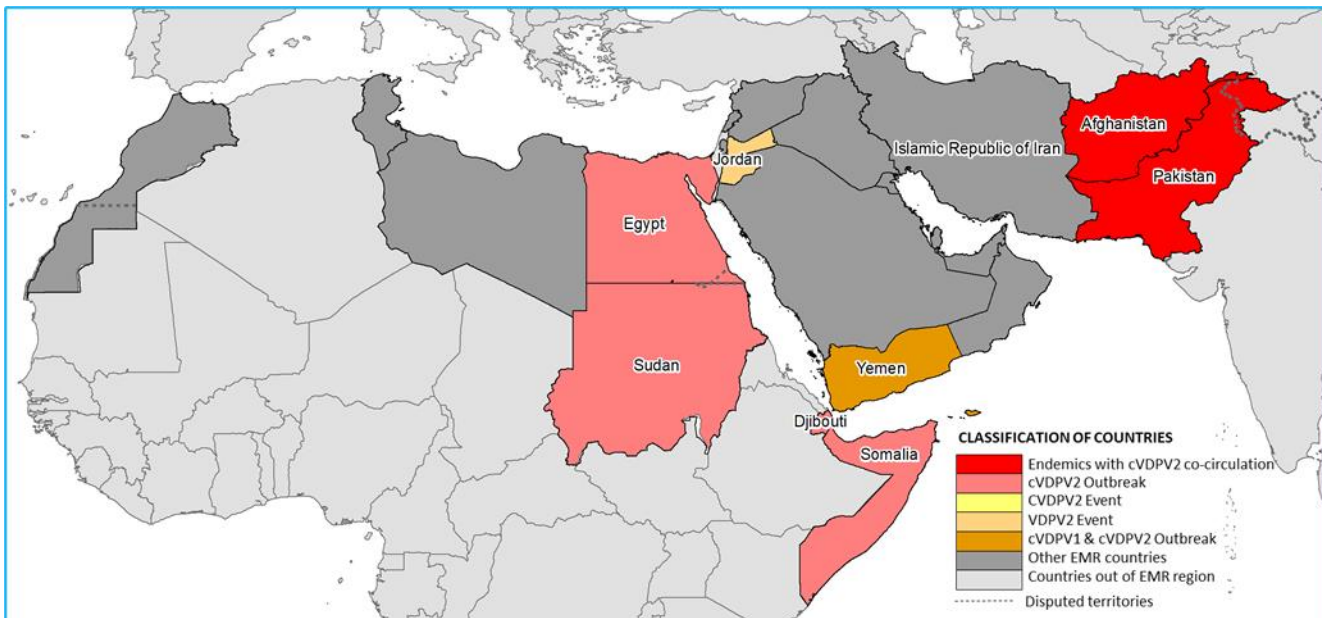
- 52 samples cVDPV2
  - 06 in Egypt
  - 12 in Djibouti
  - 06 in Somalia
  - 01 in Sudan
  - 27 in Yemen

### 2023

- 50 samples Wild Polio 1
  - 33 in Afghanistan
  - 17 in Pakistan

- 7 samples of cVDPV2
  - 04 in Somalia
  - 03 in Yemen

## Classification of EMR countries by type of poliovirus circulation



## Highlights of the week

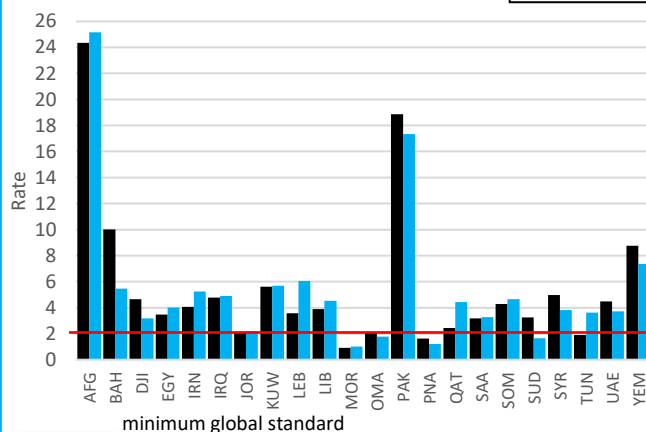
### Wild Poliovirus

- 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 Pakistan. The new positive sample was reported from Lahore district of Punjab province with collection date of 15<sup>th</sup> August 2023. The positive WPV1 ES count in 2023 to date is 50 (33 in Afghanistan and 17 in Pakistan), while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

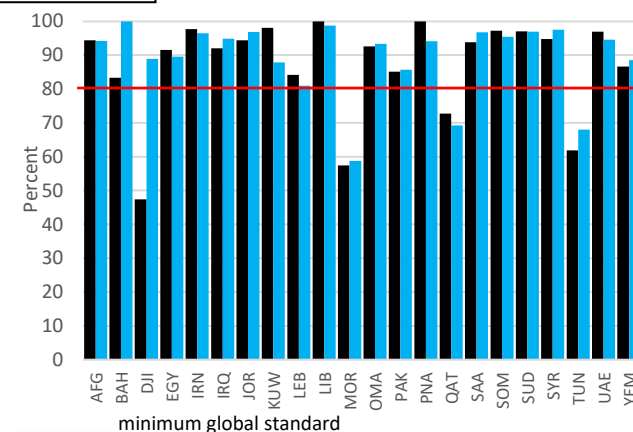
### Circulating Vaccine derived poliovirus (cVDPV)

- No new cVDPV2 cases reported this week. In 2023 the count of cVDPV2 cases to date remains to be 3 (2 from Somalia and 1 from Yemen) and in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
- One new cVDPV2 positive environmental sample reported this week from Somalia. The new positive sample was reported from Hamarweyne district, Banadir province with collection date of 13<sup>th</sup> July 2023. The positive cVDPV2 ES count in 2023 to date is 7 (4 from Somalia and 3 from Yemen) and in 2022, remains 52 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 27 in Yemen).

### Non polio AFP rate



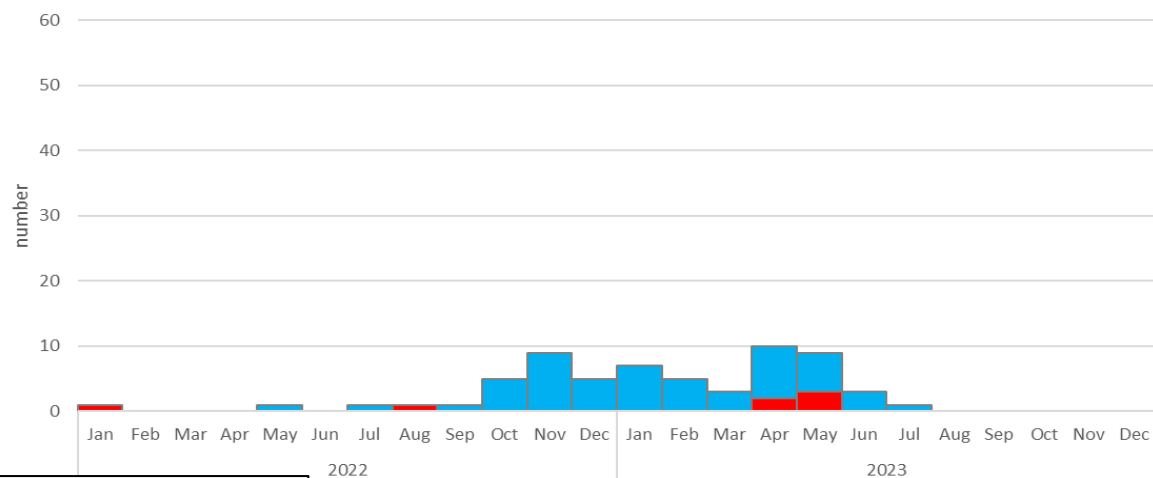
### Stool adequacy



# WPV1 Positive isolates from Afghanistan and Pakistan by source

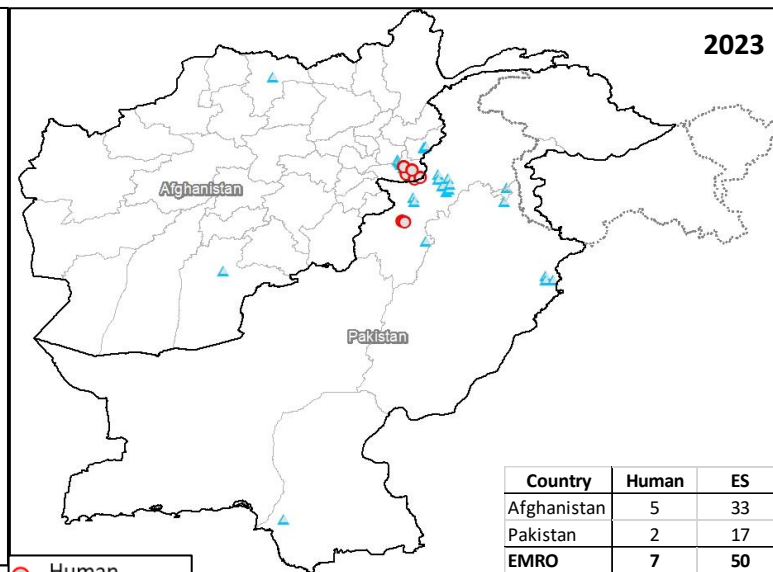
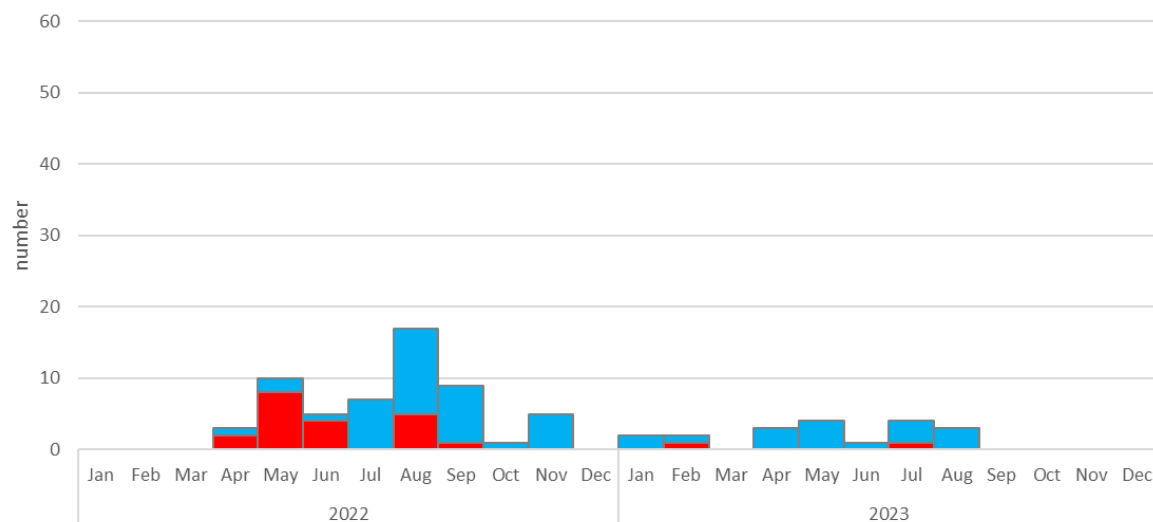
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## Afghanistan

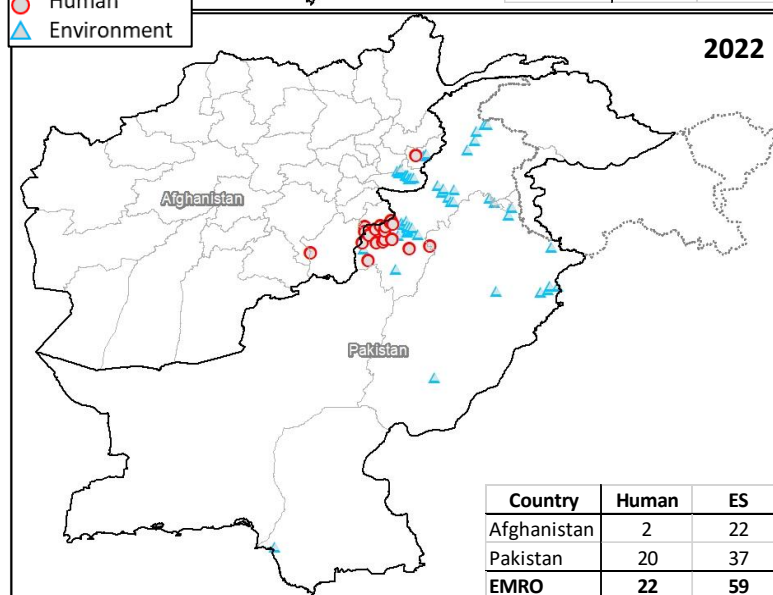


■ Human ■ Environment

## Pakistan



○ Human  
▲ Environment



# Virus isolation by country, last 12 months (Sep. 03, 2022, to Sep. 03, 2023)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
<b>Human (AFP only)</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>11</b>	<b>23</b>
Wild	5	3					8
cVDPV2				2	1	10	13
aVDPV2							
VDPV2			1			1	2
<b>Environment</b>	<b>53</b>	<b>30</b>	<b>5</b>	<b>6</b>	<b>1</b>	<b>12</b>	<b>107</b>
Wild	53	30					83
cVDPV2				6	1	11	18
aVDPV2			4				4
VDPV2			1			1	2
<b>Total</b>	<b>58</b>	<b>33</b>	<b>6</b>	<b>8</b>	<b>2</b>	<b>23</b>	<b>130</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	03 September		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022			2023									
			2022	2023	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Afghanistan	4	2	2	5	0	0	0		0	0	2	3	0	0			18-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		
Egypt	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			
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				
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	1	20	19	2	0	0		0	1	0	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			
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					
Sudan	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	21	7	0	0	0	0	1	0	2	3	0	1	0	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	3821	5	0	3525	0	11	2	25.15	94.24	5368	2	0	5365	1	0	0	24.34	94.41	3-Sep-23
BAHRAIN	11	0	0	8	0	0	0	5.46	100.00	30	0	0	30	0	0	0	10.02	83.33	3-Sep-23
DJIBOUTI	9	0	0	5	0	2	1	3.18	88.89	19	0	0	19	0	0	0	4.65	47.37	2-Sep-23
EGYPT	1113	0	0	939	1	3	1	4.01	89.58	1394	0	0	1394	0	0	0	3.48	91.54	31-Aug-23
IRAN	745	0	0	727	0	0	0	5.24	96.51	824	0	0	824	0	0	0	4.06	97.69	2-Sep-23
IRAQ	580	0	0	522	0	14	0	4.89	94.83	835	0	0	835	0	0	0	4.78	91.86	31-Aug-23
JORDAN	64	0	0	58	0	0	0	2.20	96.88	89	0	0	89	0	0	0	2.14	94.38	31-Aug-23
KUWAIT	33	0	0	33	0	0	0	5.69	87.88	52	0	0	52	0	0	0	5.62	98.08	27-Aug-23
LEBANON	63	0	0	44	0	5	0	6.06	80.95	57	0	0	57	0	0	0	3.58	84.21	3-Sep-23
LIBYA	79	0	0	72	0	0	0	4.52	98.73	101	0	0	101	0	0	0	3.89	100.00	3-Sep-23
MOROCCO	80	0	0	36	0	29	2	1.01	58.75	94	0	0	89	0	5	0	0.92	57.45	22-Aug-23
OMAN	15	0	0	14	0	0	0	1.77	93.33	27	0	0	27	0	0	0	2.10	92.59	28-Aug-23
PAKISTAN	11420	2	0	10309	0	110	0	17.33	85.66	19032	20	1	19011	0	0	0	18.86	85.14	3-Sep-23
PALESTINE	17	0	0	15	0	1	1	1.21	94.12	33	0	0	32	1	0	0	1.64	100.00	3-Sep-23
QATAR	13	0	0	3	0	7	0	4.44	69.23	11	0	0	11	0	0	0	2.44	72.73	27-Aug-23
SAUDI ARABIA	184	0	0	142	0	0	0	3.27	96.74	274	0	0	274	0	0	0	3.18	93.80	3-Sep-23
SOMALIA	282	0	0	264	2	0	0	4.66	95.39	356	0	0	349	6	0	0	4.30	96.92	3-Sep-23
SUDAN	229	0	0	154	0	57	51	1.65	96.94	650	0	0	649	1	0	0	3.25	97.08	20-Aug-23
SYRIA	199	0	0	192	0	0	0	3.81	97.49	382	0	0	382	0	0	0	4.96	94.76	2-Sep-23
TUNISIA	72	0	0	69	0	0	0	3.62	68.06	55	0	0	55	0	0	0	1.91	61.82	1-Sep-23
U.A.E.	37	0	0	21	0	12	0	3.72	94.59	66	0	0	66	0	0	0	4.47	96.97	28-Aug-23
YEMEN	790	0	0	595	2	1	0	7.35	88.48	1377	0	1	1214	162	0	0	8.77	86.64	2-Sep-23
EMR POL	19856	7	0	17747	5	252	58	10.11	88.74	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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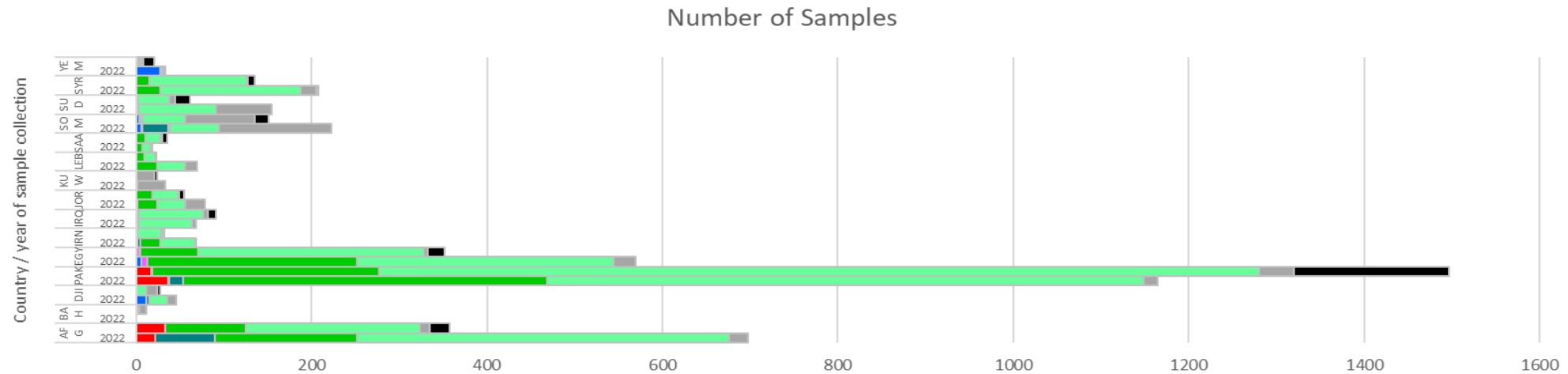
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results													Indicators					Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			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	3791	183	19	503	2844	154	1	4 *	126					152			2	2		12%	92%	100%	98%	3-Sep-23		
Bahrain	NPL Oman / CDC	11			1	10															5%	100%		45%	28-Aug-23		
Djibouti	NPL Kenya / CDC	9			1	4		4													20%	100%		100%	2-Sep-23		
Egypt	RRL Egypt	1059	11		108	866	62	13		6				1	6				1		9%	96%	100%	99%	31-Aug-23		
Iran	NPL Iran / CDC	758	7		9	727	13	2		5					3						1%	100%	100%	99%	2-Sep-23		
Iraq	NPL Iraq, RRL Egypt	585	3		40	511	23	8		2					2						7%	100%	100%	99%	31-Aug-23		
Jordan	NPL Jordan, RRL Egypt	60			12	45		3													20%	93%		100%	20-Aug-23		
Kuwait	RRL Kuwait / RIVM	33	1		3	29													1		10%	100%		100%	31-Aug-23		
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	66				52	12	2													3%	100%			31-Aug-23		
Libya	RRL Tunisia / RIVM	77	1		2	70	4			1											3%	97%	1	100%	25-Aug-23		
Morocco	NPL Morocco, RRL Tunisia	70			2	66		2													4%	99%		93%	20-Aug-23		
Oman	NPL Oman / CDC	15			1	14															14%	100%		100%	28-Aug-23		
Pakistan	RRL Pakistan	11142	273	23	1575	8631	244	300	2	174					219				1		13%	90%	100%	96%	3-Sep-23		
Palestine & UNRWA		17	1			16				1			1								0%	38%			3-Sep-23		
Qatar	NPL Oman / CDC	13	1			12									1						0%	100%	1	100%	28-Aug-23		
Saudi Arabia	NPL Saudi Arabia / CDC	169	1		5	163				1											3%	98%	100%	99%	20-Aug-23		
Somalia	NPL Kenya / CDC	282	6		47	216	10	5		3			2	2	2						18%	5%		96%	3-Sep-23		
Sudan	NPL Sudan / RRL Egypt	263	10		39	197		17					3		1			2			15%	99%	100%	30%	14-Apr-23		
Syria	NPL Syria / RRL Egypt	195	3	1	10	178	3														5%	100%			31-Aug-23		
Tunisia	RRL Tunisia	74	1		3	69	1								1						3%	96%	1	97%	25-Aug-23		
U.A.E	NPL Oman / CDC	34			2	32															6%	94%		21%	28-Aug-23		
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	630	19	1	117	446	47			10			1	2	15						17%	8%	100%	7%	2-Sep-23		
Total EMR 2023		19353	521	44	2480	15198	573	357	7 *	329			7	5		402		4	3	2	12%	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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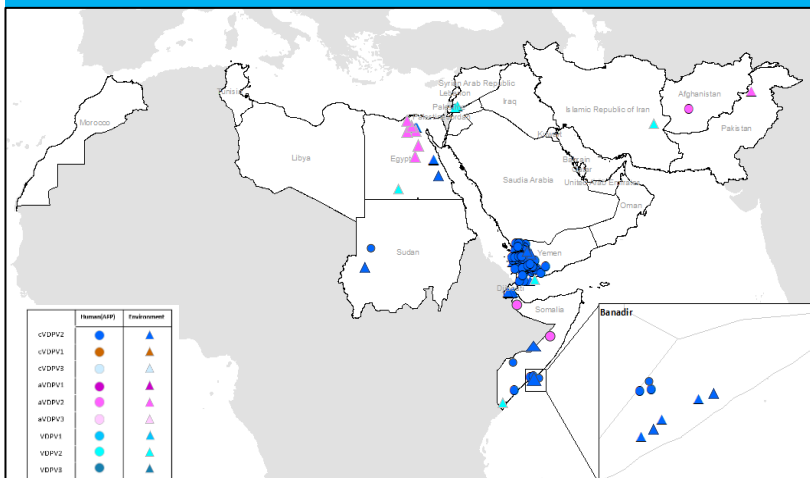


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
🇺🇦 Wild	22	33					37	17																						
🇧🇩 cVDPV2					12				6														6	4	1				27	3
🇧🇩 Wild+cVDPV2																														
🇺🇦 Wild+aVDPV2																														
🇺🇦 Wild+aVDPV3																														
🇺🇦 aVDPV1																														
🇺🇦 aVDPV2							1		7	4																				
🇺🇦 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			415	259	239	66	23	1	3	3	22	19			24	9	7	11	2	1	2	1	28	15	2	2
🇸🇩 Entero	424	198		2	20	12	679	1003	292	257	39	28	61	73	32	29	2		32	13	9	16	55	49	88	36	159	111	1	2
🇸🇩 Negative	22	12		8	11	12	17	40	25	4	1	1	4	6	23	1	31	21	13	1	2	3	128	79	63	7	18	1		
🇸🇩 Pending		22			4			177		20		2		9		6		3				6		16		17	3	8		13

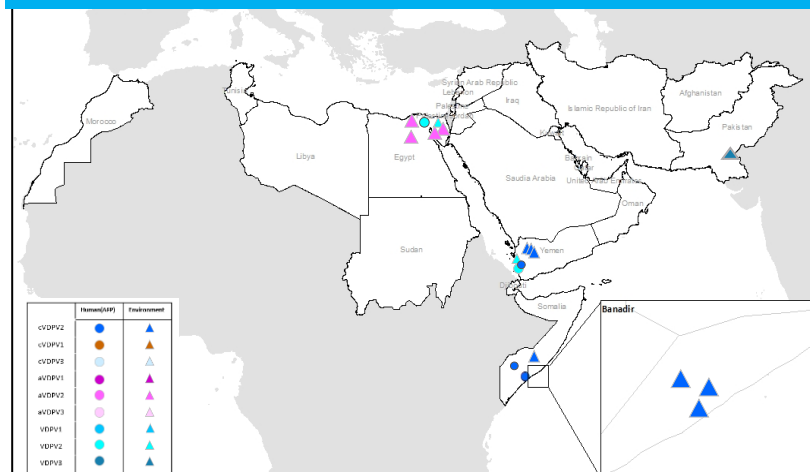
# VDPVs isolations by Source and Country

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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	4	13-07-23		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	1	18-04-23				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			14-06-21			1	67	7	4	13-04-23							
	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		01-09-22								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	17-07-23												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											2	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)