

## 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

2023

- Zero case of Wild Polio 1
- 1 case of cVDPV2
  - 01 in Somalia



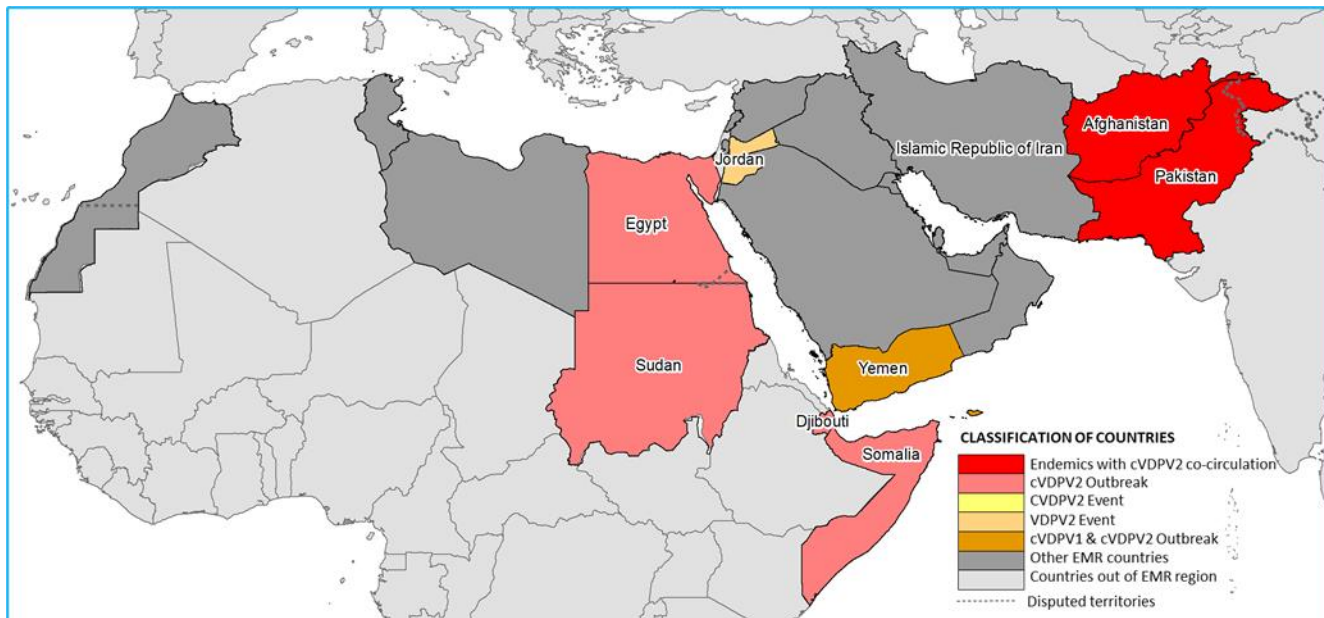
Sewage  
water  
sampling

2022

- 59 samples Wild Polio 1
  - 22 in Afghanistan
  - 37 in Pakistan
- 44 samples cVDPV2
  - 06 in Egypt
  - 12 in Djibouti
  - 05 in Somalia
  - 01 in Sudan
  - 20 in Yemen

2023

- 11 samples Wild Polio 1
  - 09 in Afghanistan
  - 02 in Pakistan
- Zero samples of cVDPV2



## Highlights of the week

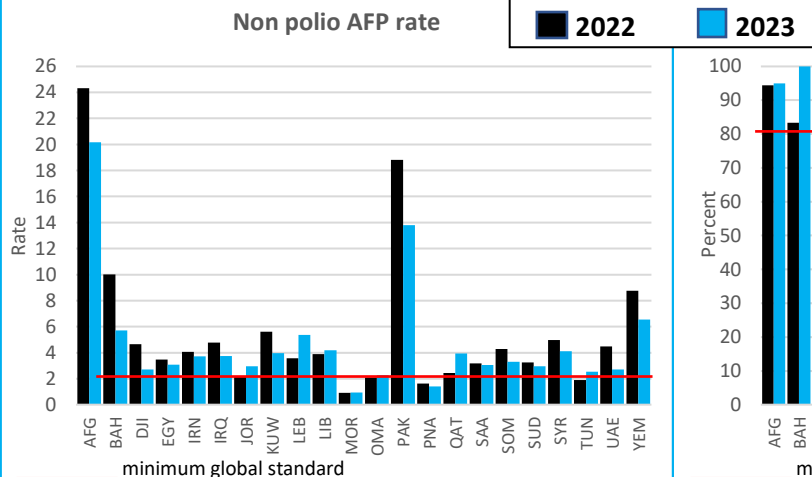
### Wild Poliovirus

- No new Wild Poliovirus isolates from human or environmental samples reported this week. The WPV1 cases count in 2022 remains to be 22 cases (2 from Afghanistan and 20 from Pakistan) and no human cases reported in 2023
- In 2023 to date the positive WPV1 ES count remains to be 11 (9 in Afghanistan and 2 in Pakistan) while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

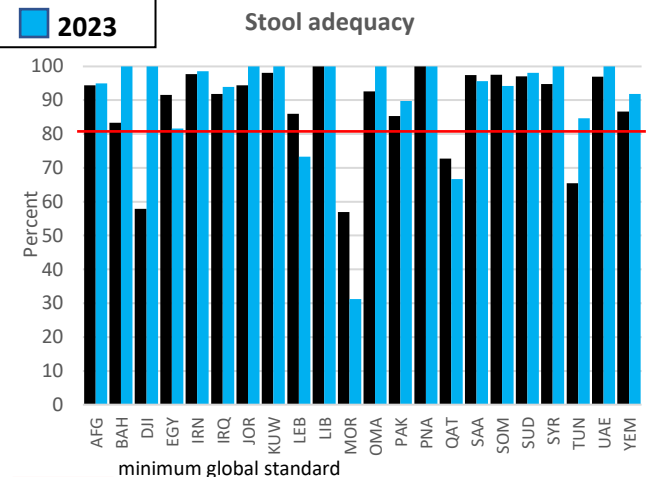
### Circulating Vaccine derived poliovirus (cVDPV)

- No new 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 44 (1 in Sudan, 5 in Somalia, 6 in Egypt, 12 in Djibouti and 20 in Yemen) and no cVDPV ES reported in 2023.

### Non polio AFP rate

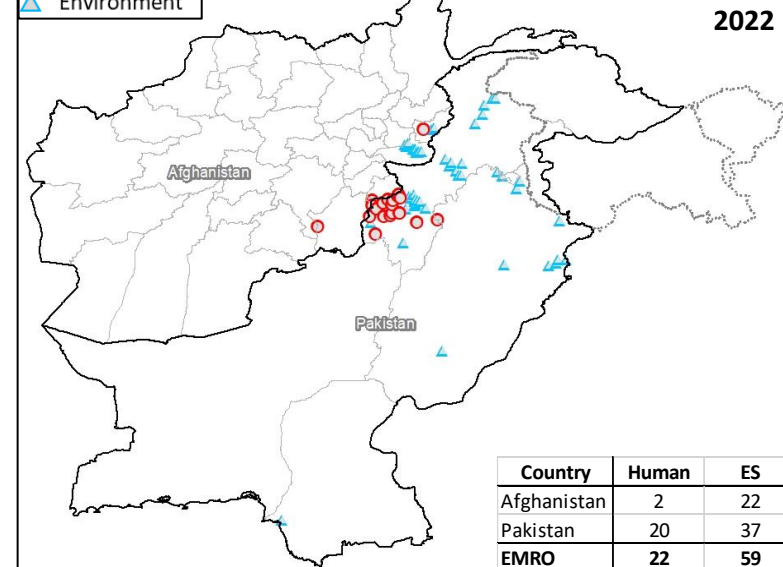
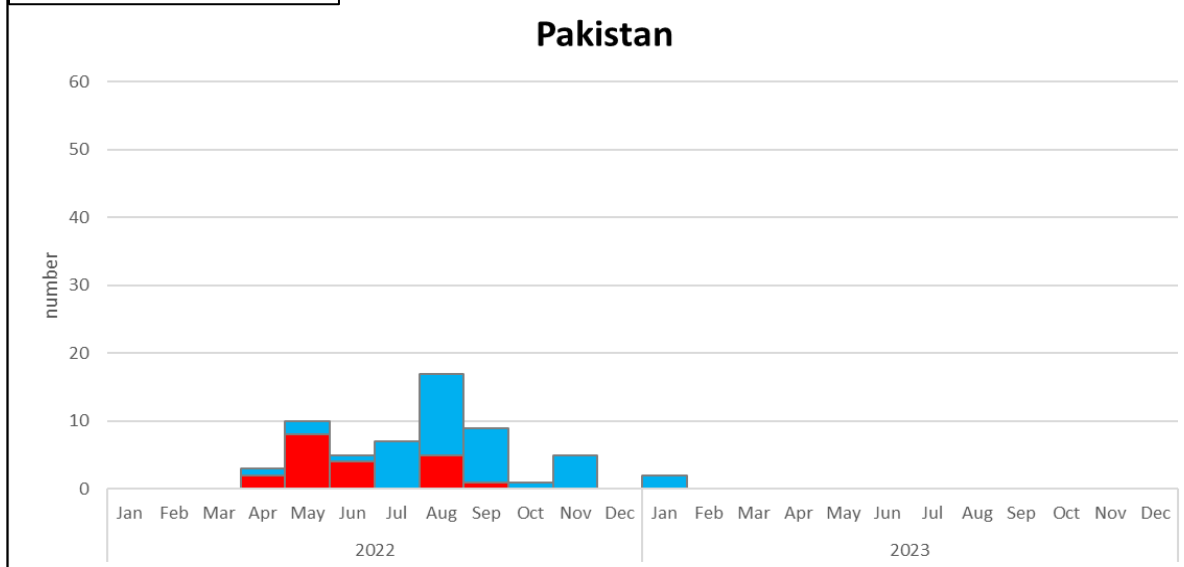
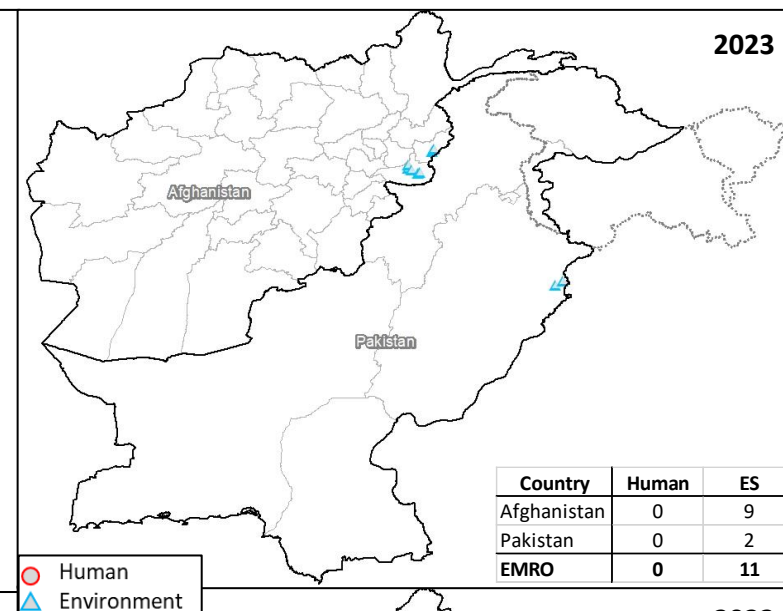
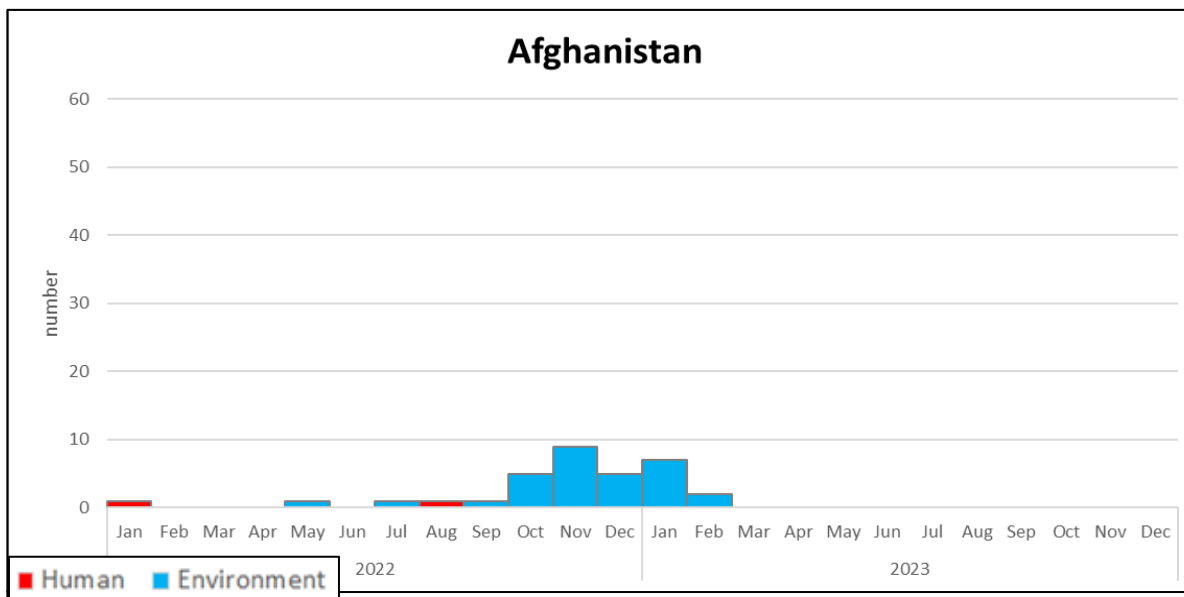


### Stool adequacy



# WPV1 Positive isolates from Afghanistan and Pakistan by source

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# Virus isolation by country, last 12 months (Mar. 5, 2022 to Mar. 5, 2023)

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Source / Virus type	AFG	DJI	PAK	EGY	JOR	SOM	SUD	YEM	Total
<b>Human (AFP only)</b>	<b>1</b>		<b>20</b>			<b>6</b>	<b>1</b>	<b>104</b>	<b>132</b>
Wild	1		20						21
cVDPV2						4	1	104	109
aVDPV2						2			2
VDPV2									
<b>Environment</b>	<b>31</b>	<b>7</b>	<b>39</b>	<b>5</b>	<b>2</b>	<b>6</b>	<b>1</b>	<b>22</b>	<b>113</b>
Wild	31		39						70
cVDPV2		7		5		5	1	21	39
aVDPV2									
VDPV2					2	1		1	4
<b>Total</b>	<b>32</b>	<b>7</b>	<b>59</b>	<b>5</b>	<b>2</b>	<b>12</b>	<b>2</b>	<b>126</b>	<b>245</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	5 March		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022									2023			
			2022	2023	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Afghanistan	4	2	1	0	0	0	0	0	1	0	0	0	0				29-Aug-22
Bahrain	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				
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				
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			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	1	20	0	0	2	8	4	0	5	1	0	0					15-Sep-22
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			
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				
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	1	0	2	8	4	0	6	1	0	0	0	0	0	0	15-Sep-22

\*\*\*\* 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	779	0	0	454	0	0	0	20.17	94.99	5367	2	0	5331	1	20	0	24.32	94.43	26-Feb-23
BAHRAIN	3	0	0	0	0	0	0	5.72	100.00	30	0	0	27	0	1	0	10.02	83.33	5-Mar-23
DJIBOUTI	2	0	0	0	0	0	0	2.71	100.00	19	0	0	19	0	0	0	4.65	57.89	4-Mar-23
EGYPT	223	0	0	121	0	0	0	3.08	81.61	1394	0	0	1378	0	10	0	3.48	91.54	4-Mar-23
IRAN	138	0	0	95	0	0	0	3.73	98.55	824	0	0	824	0	0	0	4.06	97.69	4-Mar-23
IRAQ	115	0	0	61	0	0	0	3.74	93.91	835	0	0	830	0	1	0	4.78	91.86	25-Feb-23
JORDAN	22	0	0	10	0	0	0	2.95	100.00	89	0	0	89	0	0	0	2.14	94.38	2-Mar-23
KUWAIT	6	0	0	2	0	0	0	3.98	100.00	52	0	0	52	0	0	0	5.62	98.08	20-Feb-23
LEBANON	15	0	0	1	0	0	0	5.37	73.33	57	0	0	48	0	8	0	3.58	85.96	26-Feb-23
LIBYA	19	0	0	12	0	0	0	4.18	100.00	101	0	0	101	0	0	0	3.89	100.00	25-Feb-23
MOROCCO	16	0	0	3	0	0	0	0.95	31.25	93	0	0	52	0	33	1	0.91	56.99	24-Feb-23
OMAN	5	0	0	4	0	0	0	2.27	100.00	27	0	0	27	0	0	0	2.10	92.59	5-Mar-23
PAKISTAN	2442	0	0	1812	0	0	0	13.79	89.76	18985	20	1	18641	0	166	0	18.81	85.34	5-Mar-23
PALESTINE	5	0	0	0	0	0	0	1.42	100.00	33	0	0	28	0	0	0	1.64	100.00	26-Feb-23
QATAR	3	0	0	0	0	0	0	3.94	66.67	11	0	0	11	0	0	0	2.44	72.73	26-Feb-23
SAUDI ARABIA	46	0	0	0	0	0	0	3.06	95.65	274	0	0	266	0	0	0	3.18	97.45	5-Mar-23
SOMALIA	52	0	0	33	1	0	0	3.31	94.23	356	0	0	349	6	0	0	4.28	97.47	5-Mar-23
SUDAN	106	0	0	70	0	0	0	2.95	98.11	650	0	0	648	1	1	0	3.25	97.08	2-Mar-23
SYRIA	56	0	0	33	0	0	0	4.12	100.00	382	0	0	382	0	0	0	4.96	94.76	4-Mar-23
TUNISIA	13	0	0	8	0	0	0	2.55	84.62	55	0	0	55	0	0	0	1.91	65.45	3-Mar-23
U.A.E.	7	0	0	0	0	0	0	2.71	100.00	66	0	0	57	0	5	0	4.47	96.97	24-Jan-23
YEMEN	183	0	0	4	0	0	0	6.55	91.80	1377	0	1	1188	162	9	0	8.76	86.64	5-Mar-23
EMR POL	4256	0	0	2723	1	0	0	8.30	91.09	31077	22	2	30403	170	254	1	10.75	88.35	

\* 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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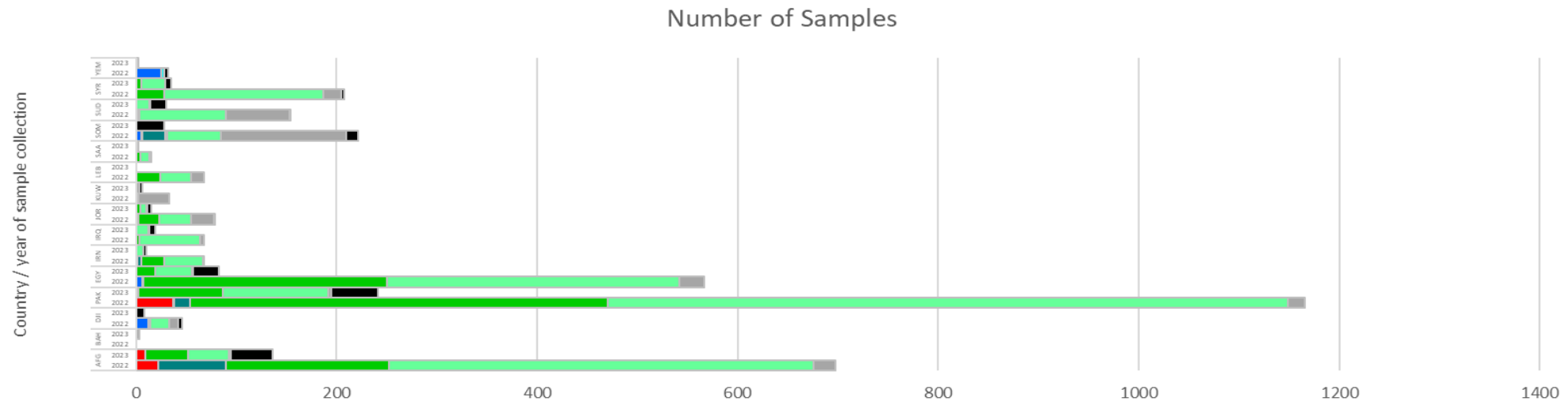
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results													Indicators				Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	705	32	1	56	385		132		18						21					4	9%	100%	100%	100%	5-Mar-23
Bahrain	NPL Oman / CDC																									23-Feb-23
Djibouti	NPL Kenya / CDC	2						2																		4-Mar-23
Egypt	RRL Egypt	210	1		19	124	63	3		1												12%	93%	100%	100%	2-Mar-23
Iran	NPL Iran / CDC	197	1			153	43			1												0%	100%	100%	100%	4-Mar-23
Iraq	NPL Iraq, RRL Egypt	143	1		10	89	40	3								1						9%	100%	100%	100%	2-Mar-23
Jordan	NPL Jordan, RRL Egypt	21			4	14	3															22%	94%		100%	5-Mar-23
Kuwait	RRL Kuwait / RIVM	9			1	5	3															17%	100%		100%	2-Mar-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	4				4																0%	100%			5-Mar-23
Libya	RRL Tunisia / RIVM	17				12	5															0%	100%		100%	28-Feb-23
Morocco	NPL Morocco, RRL Tunisia	18			1	12	5															2%	100%		100%	3-Mar-23
Oman	NPL Oman / CDC	4				2		2														0%	100%		100%	23-Feb-23
Pakistan	RRL Pakistan	2347	100	1	159	1705	366	7		57						81					1	6%	100%	100%	99%	5-Mar-23
Palestine & UNRWA		5				4	1															0%	75%		100%	26-Feb-23
Qatar	NPL Oman / CDC	1						1																		23-Feb-23
Saudi Arabia	NPL Saudi Arabia / CDC	34	1		1	17		15		1												5%	100%	100%	100%	12-Feb-23
Somalia	NPL Kenya / CDC	52	2		7	25	8	10					1	1								21%	15%		100%	5-Mar-23
Sudan	NPL Sudan / RRL Egypt	117	1		19	72	24	1								1						20%	99%	100%	100%	2-Mar-23
Syria	NPL Syria / RRL Egypt	57			2	35	20															6%	100%			5-Mar-23
Tunisia	RRL Tunisia	46	1		1	35	5	4								1						3%	100%	1	100%	28-Feb-23
U.A.E	NPL Oman / CDC																									23-Feb-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	2				2																0%	0%		100%	5-Mar-23
Total EMR 2023		3991	140	2	280	2695	586	180		78			1	1		105					5	7%	99%	100%	99%	
Total EMR 2022		30435	1065	119	4827	24396	5	19	22 *	555	1		38	169 **		721		6	8	2	3	13%	93%	89%	93%	

\* 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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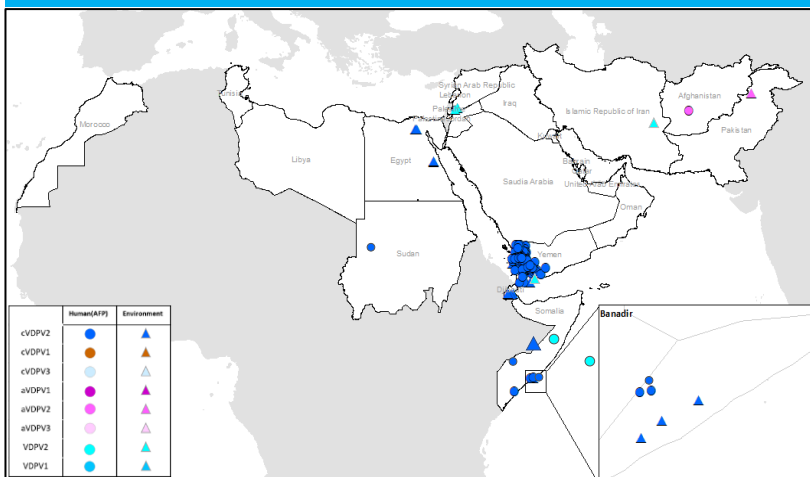


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	9					37	2																						
cVDPV2					12				6														5		1				25	
Wild+cVDPV2																														
Wild+aVDPV2																														
Wild+aVDPV3																														
aVDPV1																														
aVDPV2							1																							
aVDPV3																														
VDPV1																														
VDPV2									1		1				2								1						3	
SL2	68				2		16				4											23								
SL1/3	162	43					416	85	243	19	23		3		21	4			24		4		2		2		28	5		
Enterovirus	424	41			19		679	105	292	37	39	7	61	12	32	6	2		31		9	2	54		87	13	159	24		
Negative	22	2		3	9		17	3	25	1	1		4	1	23	1	31	3	13		2		125		63	1	18			
Pending		41			4	8		46		26		3		6	1	4		3					11	28	1	16	3	6	4	2

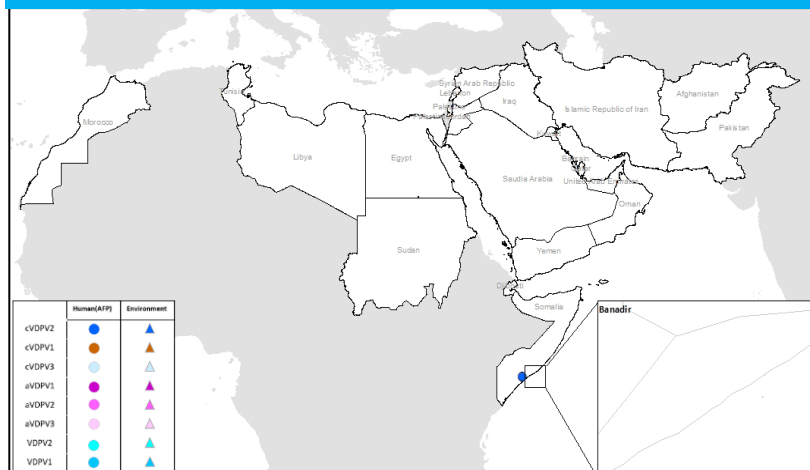
# VDPVs isolations by Source and Country

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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	Most recent	2018	2019	2020	2021	2022	Most recent	2018	2019	2020	2021	2022	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	5	04-10-22		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	20	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																67	1	12-01-22								
	Iran																	1	04-02-22								
	Jordan																	2	25-05-22								
	Pakistan																	1	15-02-22								
	Somalia					1	01-09-22																				
	Yemen																	1	24-04-22								



# 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)