

## Highlights



Children  
Paralyzed  
by polio

2022

- 22 cases of Wild Polio 1
  - 02 in Afghanistan
  - 20 in Pakistan
- 166 cases of cVDPV2
  - 05 in Somalia
  - 160 in Yemen
  - 01 in Sudan

2023

- Zero case of Wild Polio 1
- Zero case of cVDPV2



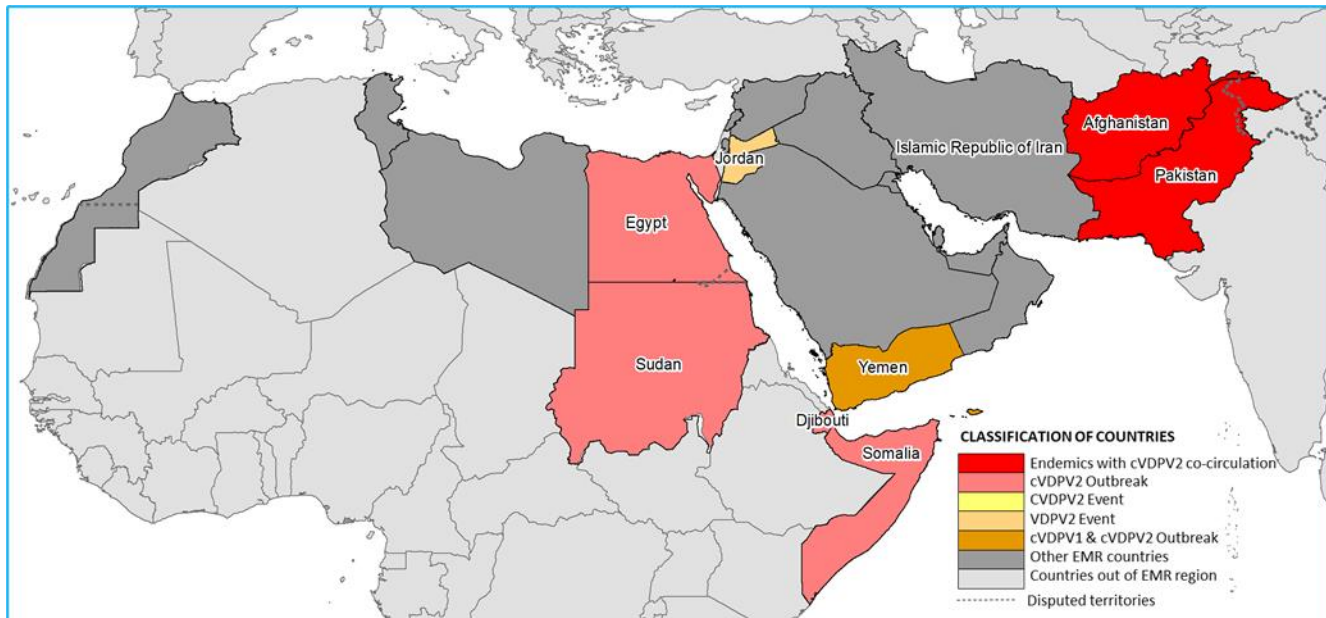
Sewage  
water  
sampling

2022

- 59 samples Wild Polio 1
  - 22 in Afghanistan
  - 37 in Pakistan
- 33 samples cVDPV2
  - 06 in Egypt
  - 12 in Djibouti
  - 04 in Somalia
  - 01 in Sudan
  - 10 in Yemen

2023

- 7 samples Wild Polio 1
  - 05 in Afghanistan
  - 02 in Pakistan
- Zero samples of cVDPV2



## Highlights of the week

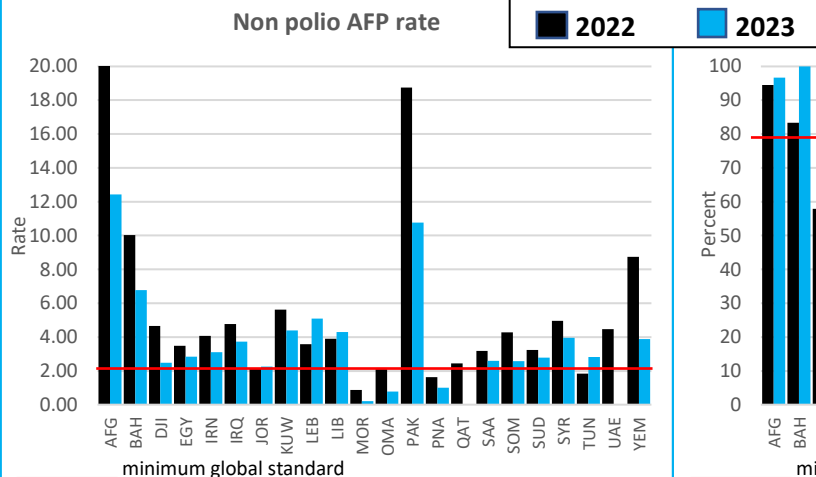
### Wild Poliovirus

- No new Wild Poliovirus cases reported this week. The cases count in 2022 remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- Environmental Surveillance:  
**Afghanistan:** Two new WPV1 positive environmental samples were reported this week from Nangarhar province (1 each from Batikot and Jalalabad districts) both collected on 23<sup>rd</sup> January 2023.
- In 2023 to date, the positive WPV1 environmental samples count in 2023 is 7 (5 in Afghanistan and 2 in Pakistan) while in 2022 the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

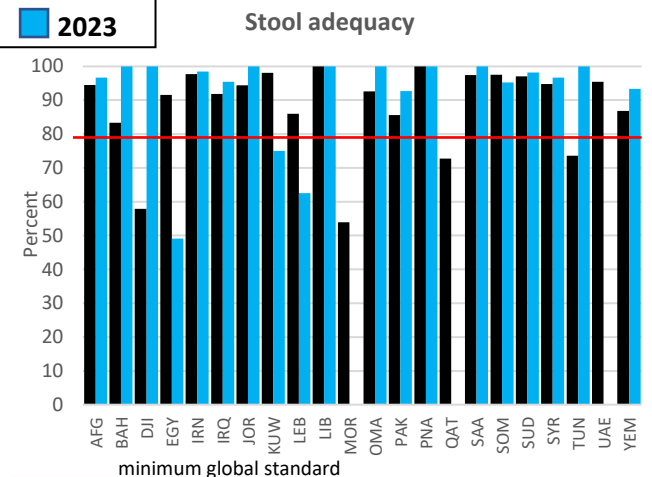
### Circulating Vaccine derived poliovirus (cVDPV)

- No new circulating vaccine derived poliovirus isolates from human or environment reported this week. The count of cVDPV2 cases in 2022 remains 166 from Sudan (1); Somalia (5); and Yemen (160) and the positive environmental samples in 2022 to date is 33, from Sudan (1); Somalia (4); Egypt (6); Yemen (10); and Djibouti (12).

### Non polio AFP rate

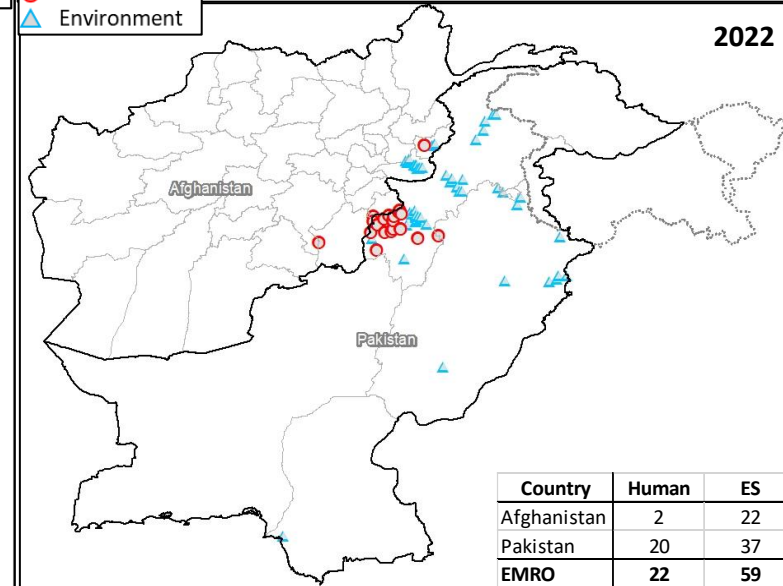
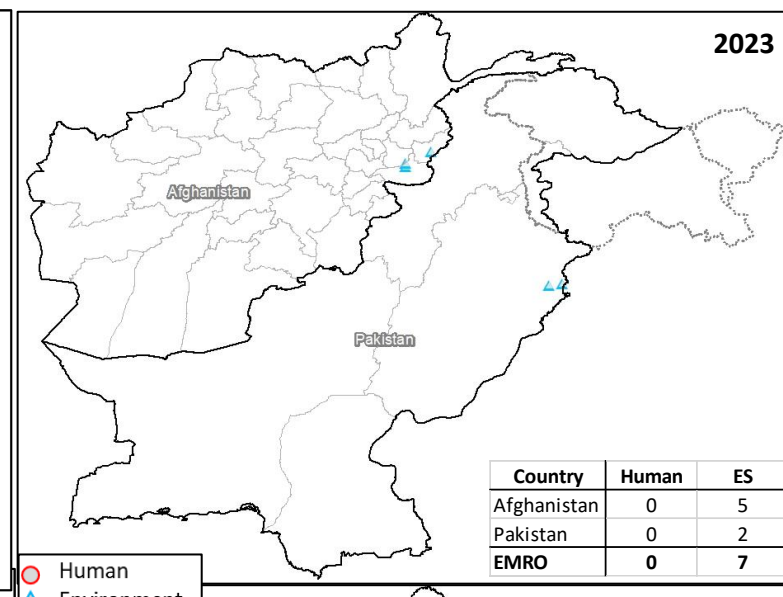
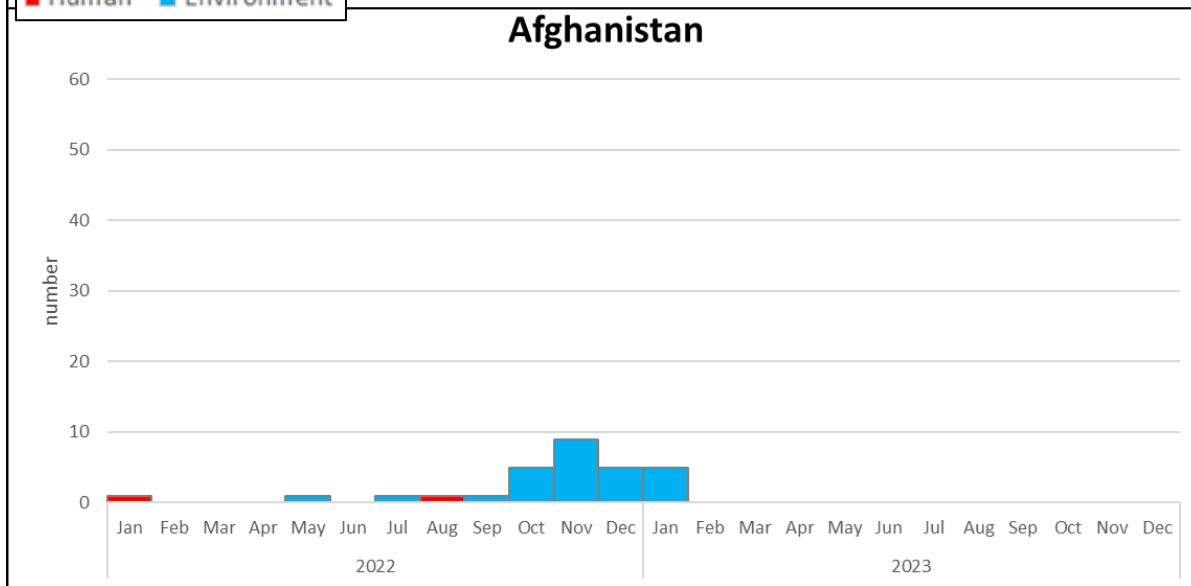
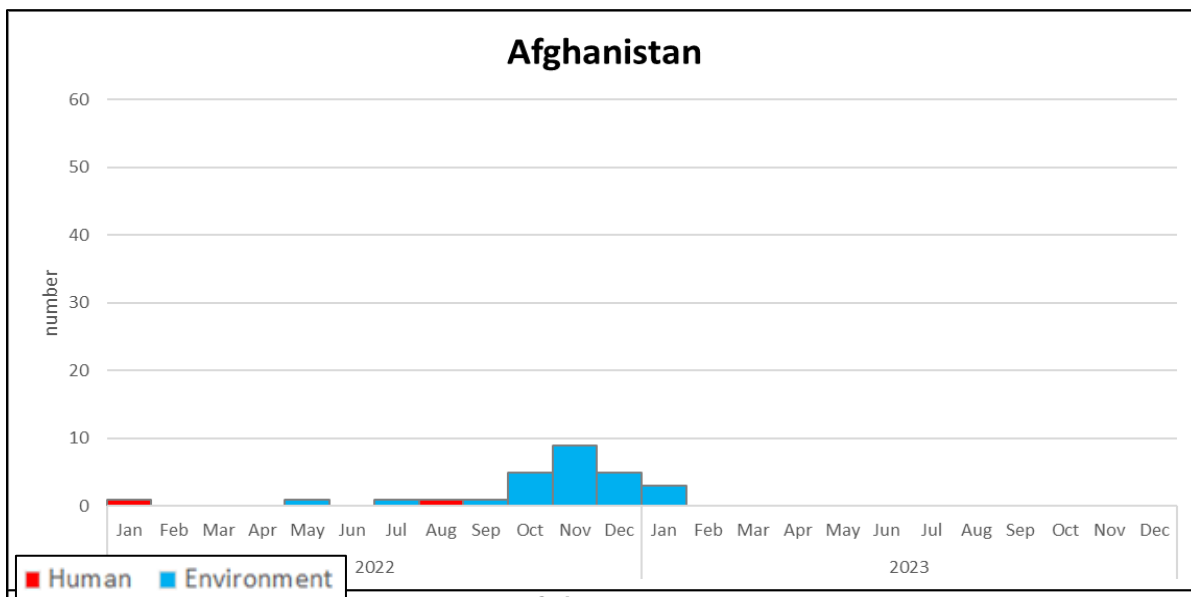


### Stool adequacy






# WPV1 Positive isolates from Afghanistan and Pakistan by source

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# Virus isolation by country, last 12 months (Feb. 05, 2022 to Feb. 05, 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>5</b>	<b>1</b>	<b>124</b>	<b>151</b>
Wild	1		20						21
cVDPV2						5	1	124	130
aVDPV2									
VDPV2									
 <b>Environment</b>	<b>27</b>	<b>10</b>	<b>40</b>	<b>6</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>9</b>	<b>100</b>
Wild	27		39						66
cVDPV2		10		6		4	1	7	28
aVDPV2			1						1
VDPV2					2	1		2	5
<b>Total</b>	<b>28</b>	<b>10</b>	<b>60</b>	<b>6</b>	<b>2</b>	<b>10</b>	<b>2</b>	<b>133</b>	<b>251</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	05 Feb.		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022										2023		
			2022	2023	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Afghanistan	4	2	1	0	0	0	0	0	0	0	1	0	0	0			29-Aug-22
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	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	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					
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	1	20	0	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						
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				
U.A.E	0	0	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	1	0	0	2	8	4	0	6	1	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	270	0	0	72	0	0	0	12.43	96.67	5364	2	0	5319	1	7	0	24.30	94.48	29-Jan-23
BAHRAIN	2	0	0	0	0	0	0	6.78	100.00	30	0	0	23	0	4	0	10.02	83.33	05-Feb-23
DJIBOUTI	1	0	0	0	0	0	0	2.48	100.00	19	0	0	19	0	0	0	4.65	57.89	05-Feb-23
EGYPT	112	0	0	3	0	0	0	2.84	49.11	1394	0	0	1342	0	21	0	3.48	91.54	02-Feb-23
IRAN	63	0	0	36	0	0	0	3.11	98.41	824	0	0	824	0	0	0	4.06	97.69	05-Feb-23
IRAQ	65	0	0	13	0	0	0	3.72	95.38	835	0	0	826	0	2	0	4.77	91.86	03-Feb-23
JORDAN	9	0	0	4	0	0	0	2.25	100.00	89	0	0	85	0	0	0	2.14	94.38	02-Feb-23
KUWAIT	4	0	0	1	0	0	0	4.39	75.00	52	0	0	52	0	0	0	5.62	98.08	05-Feb-23
LEBANON	8	0	0	0	0	0	0	5.09	62.50	57	0	0	37	0	7	0	3.58	85.96	29-Jan-23
LIBYA	11	0	0	3	0	0	0	4.30	100.00	101	0	0	93	0	0	0	3.89	100.00	04-Feb-23
MOROCCO	2	0	0	0	0	0	0	0.21	0.00	89	0	0	46	0	32	2	0.88	53.93	06-Jan-23
OMAN	1	0	0	0	0	0	0	0.79	100.00	27	0	0	27	0	0	0	2.10	92.59	29-Jan-23
PAKISTAN	1070	0	0	529	0	0	0	10.76	92.71	18922	20	1	18431	0	140	2	18.74	85.63	05-Feb-23
PALESTINE	2	0	0	0	0	0	0	1.01	100.00	33	0	0	22	0	0	0	1.64	100.00	05-Feb-23
QATAR	0	0	0	0	0	0	0			11	0	0	8	0	1	0	2.44	72.73	28-Jan-23
SAUDI ARABIA	22	0	0	0	0	0	0	2.60	100.00	274	0	0	241	0	0	0	3.18	97.45	05-Feb-23
SOMALIA	21	0	0	4	0	0	0	2.57	95.24	355	0	0	343	6	2	1	4.27	97.46	05-Feb-23
SUDAN	55	0	0	23	0	0	0	2.79	98.18	650	0	0	647	1	1	0	3.25	97.08	02-Feb-23
SYRIA	30	0	0	16	0	0	0	3.96	96.67	382	0	0	379	0	0	0	4.96	94.76	04-Feb-23
TUNISIA	8	0	0	0	0	0	0	2.82	100.00	53	0	0	47	0	0	0	1.84	73.58	03-Feb-23
U.A.E.	0	0	0	0	0	0	0			66	0	0	19	0	35	0	4.47	95.45	31-Jan-23
YEMEN	60	0	0	0	0	0	0	3.88	93.33	1375	0	1	1070	160	16	4	8.75	86.84	28-Jan-23
EMR POL	1816	0	0	704	0	0	0	6.38	94.86	31002	22	2	29900	168	268	9	10.73	88.56	

\* 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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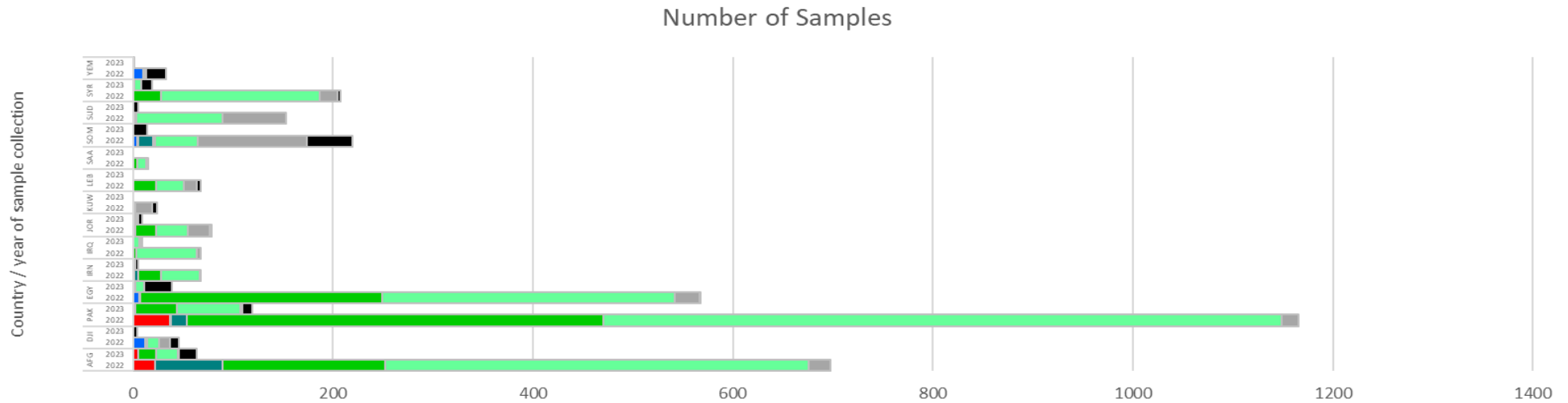
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators				Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	350	13		24	110	168		5						10					2	11%	100%	100%	100%	5-Feb-23	
Bahrain	NPL Oman / CDC																								29-Jan-23	
Djibouti	NPL Kenya / CDC	1					1																		5-Feb-23	
Egypt	RRL Egypt	85			3	15	35	32													17%	100%		100%	1-Feb-23	
Iran	NPL Iran / CDC	66				48	17	1													0%	100%		100%	4-Feb-23	
Iraq	NPL Iraq, RRL Egypt	65			1	26	34	5													5%	100%		100%	4-Feb-23	
Jordan	NPL Jordan, RRL Egypt	9			1	6	2														14%	100%		100%	5-Feb-23	
Kuwait	RRL Kuwait / RIVM	4				2	2														0%	100%		100%	5-Feb-23	
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	4					4																		2-Feb-23	
Libya	RRL Tunisia / RIVM	3				3															0%	100%		100%	25-Jan-23	
Morocco	NPL Morocco, RRL Tunisia	9				7	2														0%	100%		100%	4-Feb-23	
Oman	NPL Oman / CDC	1					1																		29-Jan-23	
Pakistan	RRL Pakistan	1016	36		47	467	440	7		26					27					2	7%	100%	100%	100%	5-Feb-23	
Palestine & UNRWA		2				2															0%	50%		100%	5-Feb-23	
Qatar	NPL Oman / CDC																								29-Jan-23	
Saudi Arabia	NPL Saudi Arabia / CDC	8						8																	16-Jan-23	
Somalia	NPL Kenya / CDC	21				5	6	11													0%	40%		100%	5-Feb-23	
Sudan	NPL Sudan / RRL Egypt	42	1		1	7	22	11													11%	100%			29-Jan-23	
Syria	NPL Syria / RRL Egypt	29				16	11	2													0%	100%			2-Feb-23	
Tunisia	RRL Tunisia	7				2	2	3													0%	100%		100%	25-Jan-23	
U.A.E	NPL Oman / CDC																								29-Jan-23	
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt																								28-Jan-23	
Total EMR 2023		1722	50		77	716	747	80		31					37					4	7%	100%	100%	100%		
Total EMR 2022		30326	1061	119	4808	24216	68	48	22 *	555	1		39	167 **		719		6	8	2	4	13%	93%	89%	93%	

\* In 2022 - Three WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

\*\* In 2022 - Four cVDPV2 cases are identified by positive contacts (Index cases were negative for cVDPV2)

# Environmental Surveillance Isolation by Classification

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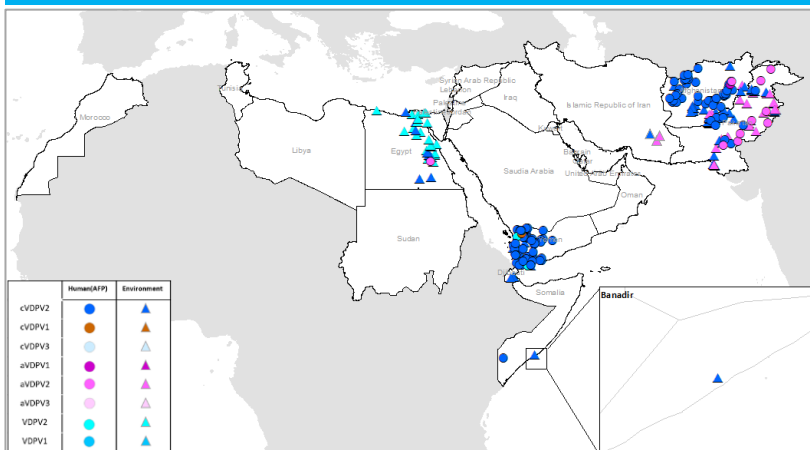


	AFG		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	5			37	2																						
cVDPV2			12				6														4		1				10	
Wild+cVDPV2																												
Wild+aVDPV2																												
Wild+aVDPV3																												
aVDPV1																												
aVDPV2					1																							
aVDPV3																												
VDPV1																												
VDPV2							1		1				2								1						2	
SL2	68				16				4												15						1	
SL1/3	162	18	2		416	42	242	2	23		3		21	2			23		4		2		2		28	1		
Entero	424	22	12		679	63	293	9	39	2	61	6	32	2	2		28		9		43		87		159	7		
Negative	22	1	11		17	2	25		1		4	1	22	1	17		13		2		109		63		18			
Pending		18	9	4		10	1	28		3		2	2	4	5		4				45	14		5	3	11	20	1

# VDPVs isolations by Source and Country

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## VDPV Isolates, EMR countries, 2021



## VDPVs isolated from 2017-2022

VDPV Isolate type	EMR Country	Sources																											
		AFP cases(Human)						Contacts(Human)						Environment						Other Sources (Healthy Children)									
		2017	2018	2019	2020	2021	2022	Most recent	2017	2018	2019	2020	2021	2022	Most recent	2017	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	23-08-22	3	1	11		5	31-08-22	2	19	5	26	1	4	28-08-22			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	
	Syria	74						21-09-17	63					12-09-17								4						20-08-17	
Yemen					66	160	02-12-22					23	38	05-08-22				13	10		28-05-22								
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	5		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								

Note: No VDPV isolate in 2023 to date

## 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)