

## Highlights



Children  
Paralyzed  
by polio

### 2023

- 12 cases of Wild Polio 1
  - 06 in Afghanistan
  - 06 in Pakistan

- 13 cases of cVDPV2
  - 08 in Somalia
  - 05 in Yemen

- Zero cVDPV1 cases

### 2024

- Zero cases of Wild Polio 1

- Zero cases of cVDPV2

- Zero cVDPV1 cases



Sewage  
water  
sampling

### 2023

- 188 samples Wild Polio 1
  - 62 in Afghanistan
  - 126 in Pakistan

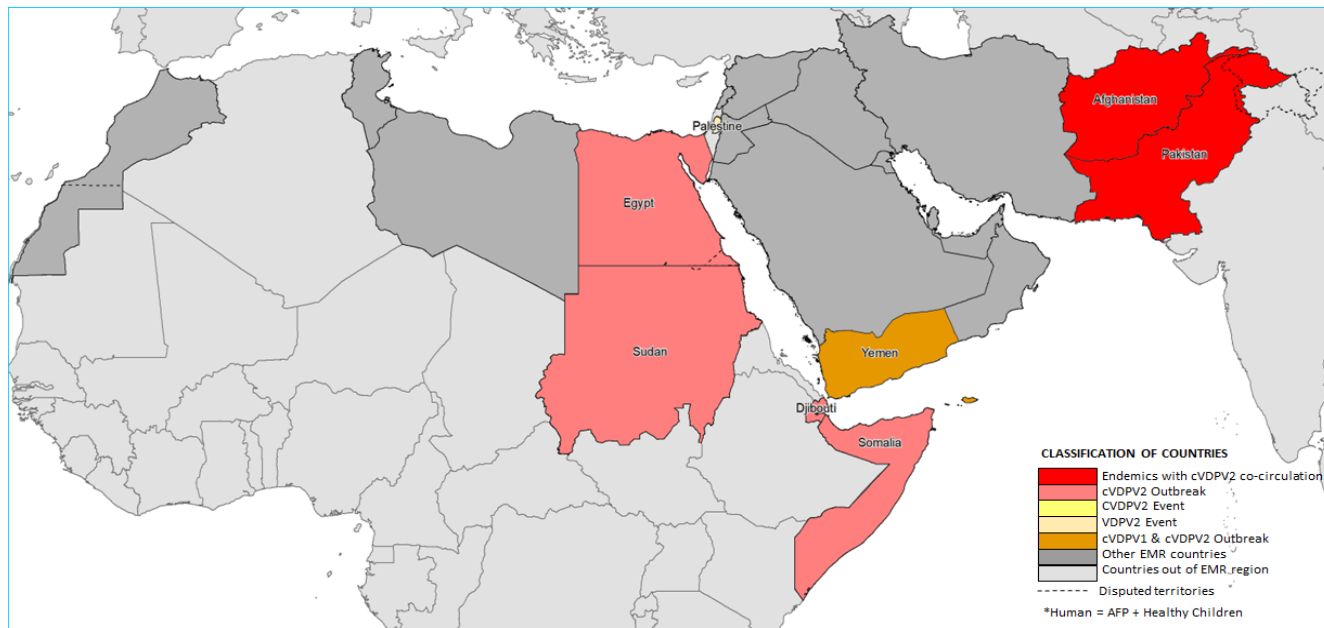
- 35 samples cVDPV2
  - 11 in Egypt
  - 10 in Yemen
  - 09 in Somalia
  - 05 in Sudan

### 2024

- 34 samples Wild Polio 1
  - 34 in Pakistan

- 2 sample cVDPV2
  - 1 in Sudan
  - 1 in Egypt

## Classification of EMR countries by type of poliovirus circulation



## Highlights of the week

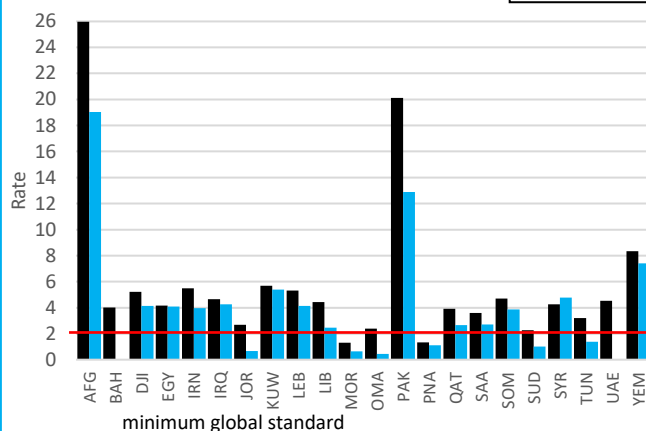
### Wild Poliovirus

- Human cases:** No new WPV1 case reported this week. Wild case count for 2023 remains 12 (6 each from Afghanistan and Pakistan). No wild case is reported in 2024.
- Environmental samples:** Three new WPV1 positive samples were reported this week (all from Pakistan). The new WPV1 isolates are one from each of Peshawar district of Khyber Pakhtunkhwa province, Multan district of Punjab province and Karachi Malir district of Sindh province. The dates of sample collection vary between 6<sup>th</sup> to 22<sup>nd</sup> February 2024). The count of the WPV1 positive environmental samples in 2024 to date is 34 (all from Pakistan) and in 2023 the count remains to be 188 (62 in Afghanistan and 126 in Pakistan).

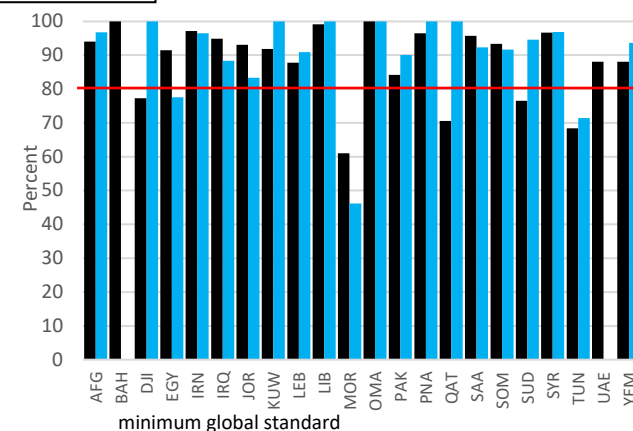
### Circulating Vaccine derived poliovirus (cVDPV)

- Human cases:** Four new cVDPV2 cases reported this week: One from Yemen which had been previously reported as aVDPV2 with date of onset as of 11<sup>th</sup> November 2023 and three cases were reported from Somalia (two from BAY region with date of onset on 13<sup>th</sup> December 2023 and one from Galagudud with date of onset on 15<sup>th</sup> of December 2023). In 2024, no cVDPV2 case reported as of week 10. Total cases count of cVDPV2 is 13 (8 from Somalia and 5 from Yemen).
- Environmental samples:** No new cVDPV2 positive sample was reported this week; Total two isolates reported in 2024 (one each from Egypt and Sudan). In 2023 the count remains 35 (11 from Egypt, 10 from Yemen, 9 from Somalia, and 5 from Sudan).

### Non polio AFP rate

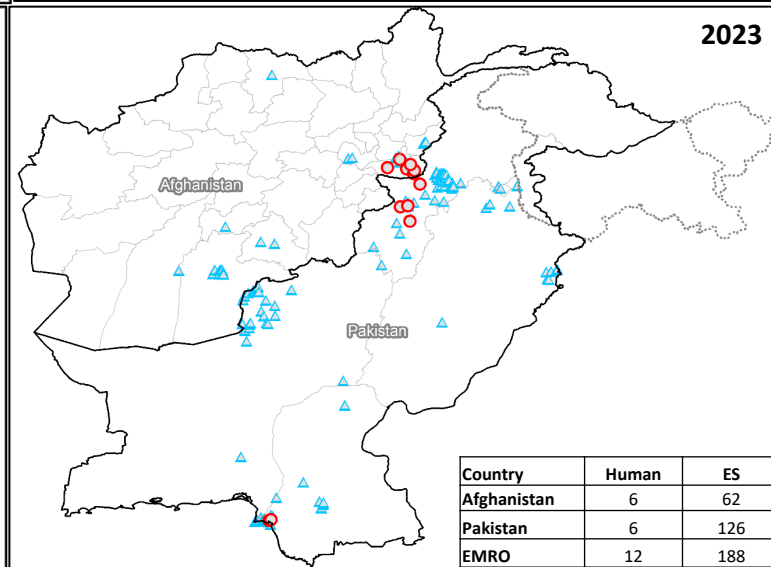
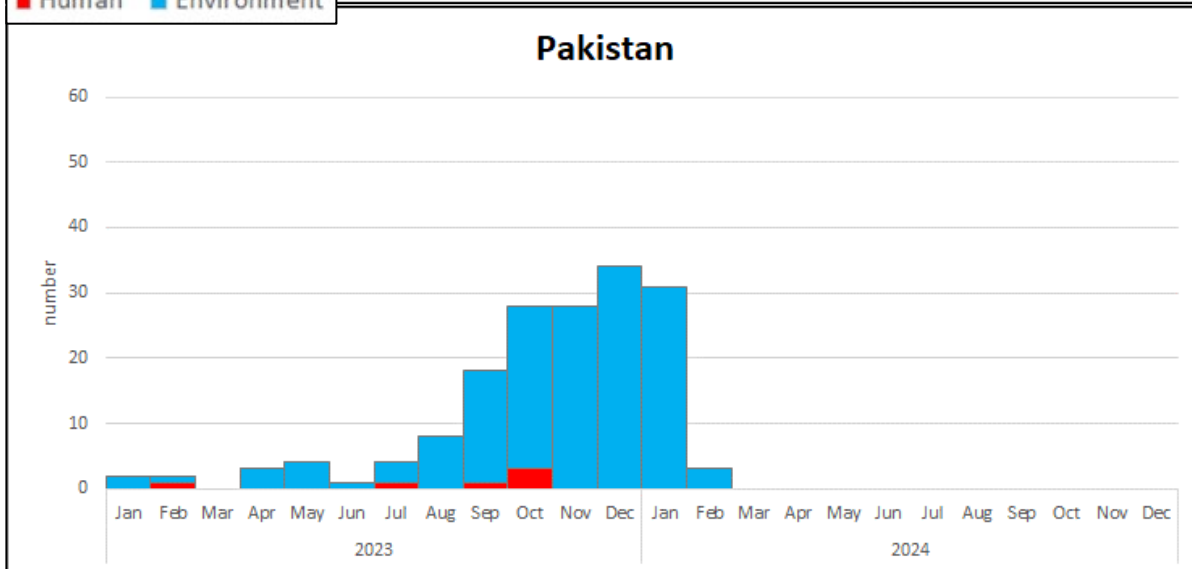
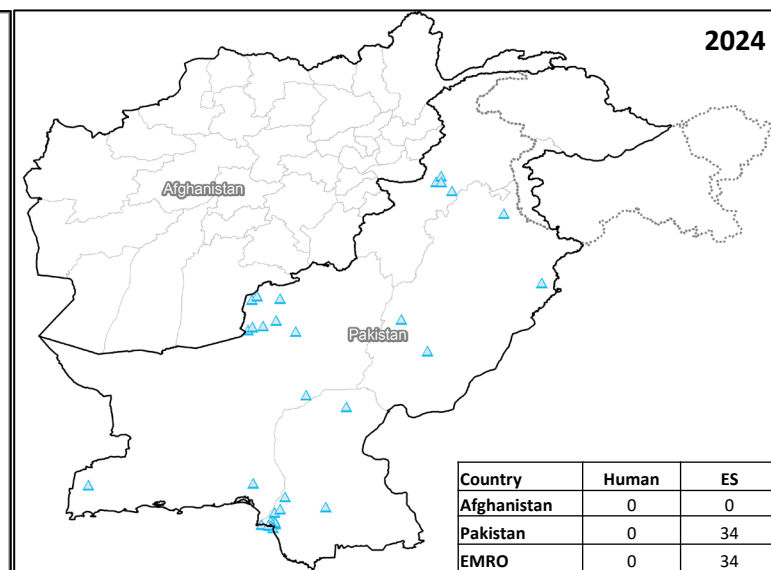
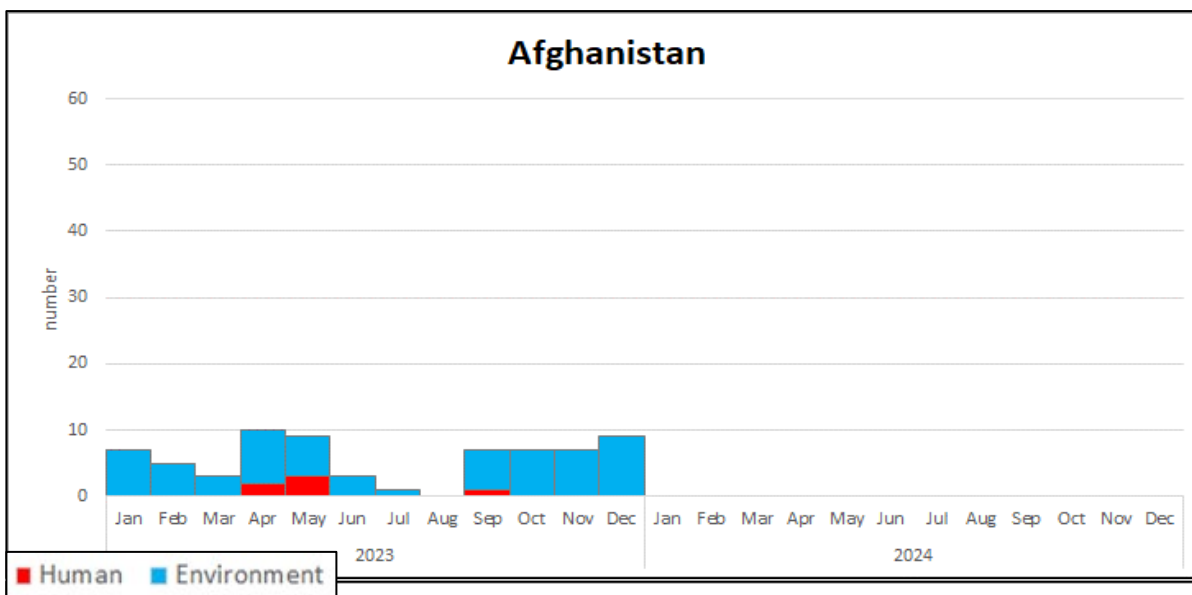


### Stool adequacy



# WPV1 Positive isolates from Afghanistan and Pakistan by source

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# Virus isolation by country, last 12 months (03 Mar. 2023, to 03 Mar. 2024)

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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>1</b>	<b>6</b>		<b>6</b>	<b>24</b>
Wild	6	5					11
cVDPV2				6		5	11
aVDPV2						1	1
VDPV2			1				1
<b>Environment</b>	<b>48</b>	<b>157</b>	<b>14</b>	<b>9</b>	<b>6</b>	<b>11</b>	<b>245</b>
Wild	48	157					205
cVDPV2			12	9	6	9	36
aVDPV2			2				2
VDPV2						2	2
<b>Total</b>	<b>54</b>	<b>162</b>	<b>15</b>	<b>15</b>	<b>6</b>	<b>17</b>	<b>269</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 2022	Total year 2023	25 February		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2023										2024		
			2023	2024	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Afghanistan	2	6	0	0	0	2	3	0	0	0	1	0	0	0			04-Sep-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	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	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	0		
Lebanon ****	0	0	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	0			
Morocco	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	20	6	1	0	0	0	0	0	1	0	1	3	0	0			24-Oct-23
Palestine ****	0	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	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	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	0	0		
Yemen	0	0	0	0	0	0	0	0	0	0	0						
EMR	22	12	1	0	0	2	3	0	1	0	2	3	0	0	0	0	24-Oct-23

\*\*\*\* UNRWA cases are included with those of country of residence

# Investigation of AFP cases with paralysis onset in 2023 & 2024

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COUNTRY	2024									2023									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	739	0	0	255	0	0	0	19.02	97	5852	6	0	5838	0	3	2	25.96	94	03-Mar-24
Bahrain										12	0	0	11	0	1	0	4.01	100	03-Mar-24
Djibouti	3	0	0	2	0	0	0	4.13	100	22	0	0	22	0	0	0	4.99	77	03-Mar-24
Egypt	290	0	0	139	0	0	0	4.08	78	1714	0	0	1687	1	21	2	4.16	91	29-Feb-24
Iraq	129	0	0	75	0	0	0	4.26	88	820	0	0	820	0	0	0	4.66	95	01-Mar-24
Islamic Republic of Iran	143	0	0	121	0	0	0	3.96	96	1150	0	0	1150	0	0	0	5.49	97	03-Mar-24
Jordan	6	0	0	3	0	0	0	0.68	83	116	0	0	116	0	0	0	2.68	93	25-Feb-24
Kuwait	8	0	0	8	0	0	0	5.38	88	49	0	0	49	0	0	0	5.69	92	22-Feb-24
Lebanon	11	0	0	7	0	0	0	4.13	91	82	0	0	75	0	7	0	5.31	88	26-Feb-24
Libya	11	0	0	2	0	0	0	2.46	100	113	0	0	113	0	0	0	4.32	98	02-Mar-24
Morocco	13	0	0	0	0	0	0	0.65	46	154	0	0	42	0	90	20	1.31	61	05-Feb-24
Oman	1	0	0	1	0	0	0	0.46	100	30	0	0	30	0	0	0	2.38	100	29-Feb-24
Pakistan	2178	0	0	1652	0	0	0	12.88	90	19687	6	0	19322	0	196	2	20.12	84	03-Mar-24
Palestine	4	0	0	0	0	0	0	1.11	100	28	0	0	25	0	2	0	1.35	96	25-Feb-24
Qatar	2	0	0	0	0	0	0	2.67	100	17	0	0	17	0	0	0	3.91	71	03-Mar-24
Saudi Arabia	39	0	0	0	0	0	0	2.70	92	301	0	0	288	0	0	0	3.60	96	03-Mar-24
Somalia	60	0	0	35	0	0	0	3.87	92	424	0	0	415	8	0	0	4.63	93	03-Mar-24
Sudan	37	0	0	0	0	0	0	1.02	95	473	0	0	407	0	49	7	2.28	76	03-Mar-24
Syrian Arab Republic	64	0	0	47	0	0	0	4.78	97	332	0	0	332	0	0	0	4.27	97	02-Mar-24
Tunisia	7	0	0	0	0	0	0	1.39	71	95	0	0	95	0	0	0	3.20	68	02-Mar-24
United Arab Emirates										67	0	0	66	0	0	0	4.54	88	26-Feb-24
Yemen	204	0	0	3	0	0	0	7.41	94	1331	0	0	1230	6	57	57	8.29	88	02-Mar-24
EMR POL	3949	0	0	2350	0	0	0	7.89	91	32869	12	0	32150	15	426	90	11.27	87	

\* 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 2024

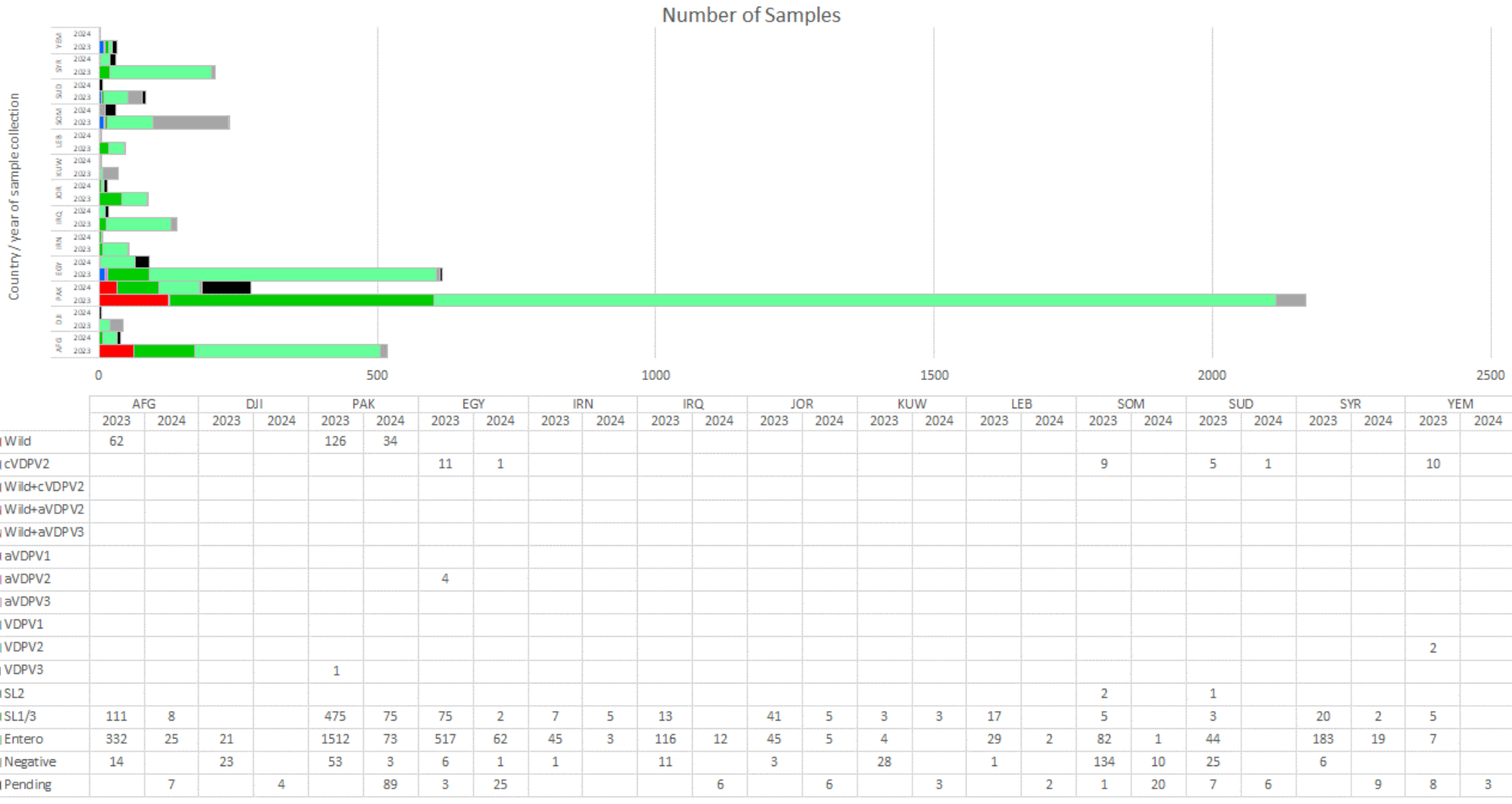
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Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results													Indicators				Latest report Date
	ITD / Nucleotide sequencing		Referred for ITD		NPEV 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	443	12	2	31	212		1		8						10						9%	100%	100%	100%	03-03-24
Bahrain	PNL Oman / CDC																									03-03-24
Djibouti	PNL Kenya / VDV	2						2																		01-03-24
Egypt	RRL Egypt	253	2		8	184	57	2		1						1						4%	98%	100%	100%	29-02-24
Iran	PNL Iran / CDC	183	1		1	154	26	1		1						1						0%	99%	100%	100%	02-03-24
Iraq	PNL Iraq, RRL Egypt	134	4		16	66	27	21		2						2						18%	100%	100%	100%	01-03-24
Jordan	PNL Jordan, RRL Egypt	6				6																0%	67%		100%	28-02-24
Kuwait	RRL Kuwait / RIVM	9	1		1	6	1													1		8%	75%		100%	26-02-24
Lebanon	NPL Syria / RRL Egypt	7				7																0%	100%			29-02-24
Libya	RRL Tunisia / RIVM	2				2																0%	100%		100%	14-02-24
Morocco	PNL Morocco, RRL Tunisia	18				17	1															0%	100%		100%	28-02-24
Oman	PNL Oman / CDC	1				1																0%	100%		100%	03-03-24
Pakistan	RRL Pakistan	2132	117	2	169	1497	268	39		66						86						7%	99%	100%	100%	03-02-24
Palestine & UNRWA																										22-02-24
Qatar	NPL Oman / CDC	2				2																0%	100%		100%	03-03-24
Saudi Arabia	PNL Saudi Arabia / CDC	33	1		1	19		12											1			4%	95%	0%	100%	21-02-24
Somalia	PNL Kenya / CDC	16						16																		01-03-24
Sudan	PNL Sudan, RRL Egypt	13						13																		29-02-24
Syria	PNL Syria, RRL Egypt	61			1	48	12															3%	100%			29-02-24
Tunisia	RRL Tunisia	5				1		4														0%	100%		100%	14-02-24
U.A.E	PNL Oman / CDC																					0%				03-03-24
Yemen	NPLs Oman, Jordan & Kenya / RRL Egypt	57	1		5	33	17	1								1						10%	3%	100%	0%	03-03-24
Total EMR 2024		3377	139	4	233	2255	422	99		78						101				1	1	7%	98%	99%	98%	
Total EMR 2023		32080	1006	81	4479	26356	103	49	12*	656		4	8	11		766			4	3	2	12%	91%	100%	93%	

\* In 2023 – Two WPV1 cases are confirmed due to positive contacts while in 2022 - three WPV1 cases were confirmed due to positive contacts (Index cases were negative for WPV1)

# Environmental Surveillance Isolation by Classification

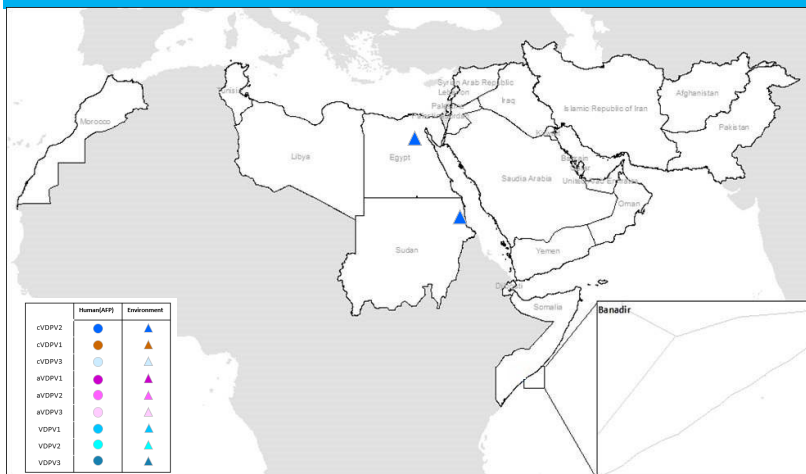
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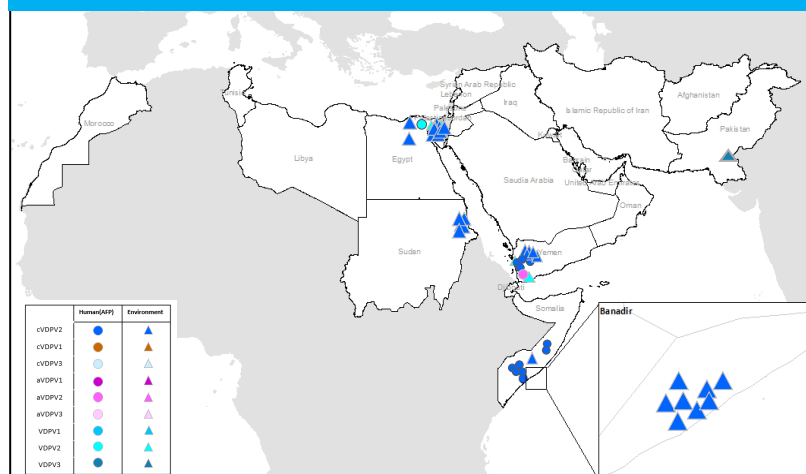
# VDPVs isolations by Source and Country

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## VDPV Isolates, EMR countries, 2024



## VDPV Isolates, EMR countries, 2023



## VDPVs isolated from 2018-2023

Isolate type	EMR Country	Sources																										
		AFP cases(Human)						Contacts(Human)						Environment						Other Sources (Healthy Children)								
		2019	2020	2021	2022	2023	2024	Most recent	2019	2020	2021	2022	2023	2024	Most recent	2019	2020	2021	2022	2023	2024	Most recent	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	11	1	31-01-24						
	Iran																3	1				20-02-21						
	Pakistan	22	135	8				23-04-21									38	135	35			11-08-21						
	Somalia	3	14	1	5	8		15-12-23	1	11		6	3		03-08-23	5	26	1	6	9		26-10-23	1	5		1		10-03-22
	Sudan		58		1			31-10-22		18					08-10-20		14		1	5	1	11-01-24		4				24-08-20
	Yemen				66	162	5	17-11-23				23	40	1	11-06-23			13	26	10		25-09-23						
cVDPV1	Yemen	1	31	3				27-03-21	2						10-07-19													
cVDPV3	Somalia							07-09-18							30-06-18							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				1			22-08-22	1						03-02-19						
	Yemen			3		1		05-09-23		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																				
	Iran																	1				04-02-22						
	Jordan																	2				25-05-22						
	Somalia				1			01-09-22										1				22-04-22						
	Sudan																											
	Yemen																	3	2			27-05-23						
VDPV3	Pakistan																		1			14-02-23						



# 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)