

## Highlights



Children  
Paralyzed  
by polio

### 2023

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

- 16 cases of cVDPV2
  - 08 in Somalia
  - 08 in Yemen

- Zero cVDPV1 cases

### 2024

- 11 cases of Wild Polio 1
  - 06 in Afghanistan
  - 05 in Pakistan

- 17 cases of cVDPV2
  - 02 in Somalia
  - 15 in Yemen

- Zero cVDPV1 cases



Sewage  
water  
sampling

### 2023

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

- 41 samples cVDPV2
  - 11 in Egypt
  - 16 in Yemen
  - 09 in Somalia
  - 05 in Sudan

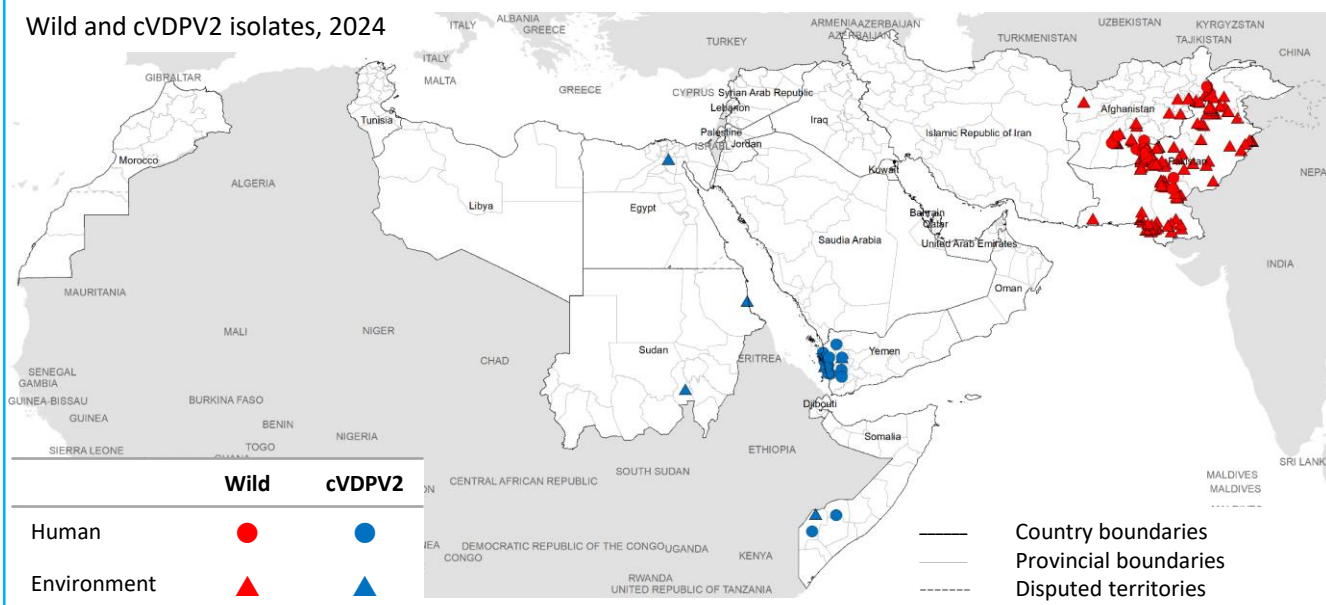
### 2024

- 229 samples Wild Polio 1
  - 44 in Afghanistan
  - 185 in Pakistan

- 6 sample cVDPV2
  - 1 in Egypt
  - 1 in Somalia
  - 2 in Sudan
  - 2 in Yemen

## Classification of EMR countries by type of poliovirus circulation

### Wild and cVDPV2 isolates, 2024



## Highlights of the week

### Wild Poliovirus

- No new WPV1 cases reported this week. The WPV1 case count in 2024 to date is 11 (6 from Afghanistan and 5 from Pakistan), and for 2023, the count remains 12 (6 each from Afghanistan and Pakistan).
- Three new WPV1 positive environmental samples (ES) reported this week, all from Pakistan. The new ES are: 2 from Sindh province (both from Khikeamari town) and 1 from Khyber Pakhtunkhwa province (Peshawar district). The sample collection dates are between 3<sup>rd</sup> and 4<sup>th</sup> June 2024. ES count to date in 2024 is 229 (44 from Afghanistan and 185 from Pakistan). In 2023, the count remains to be 188 (62 in Afghanistan and 126 in Pakistan).

### Vaccine derived poliovirus (VDPV)

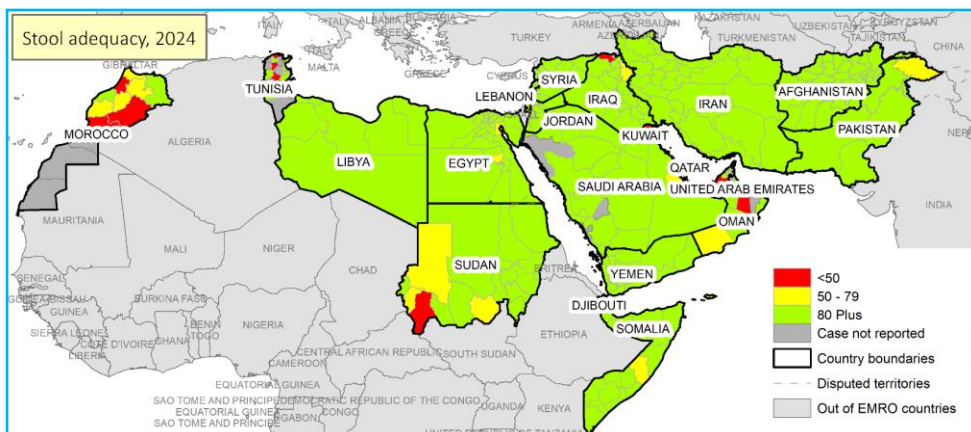
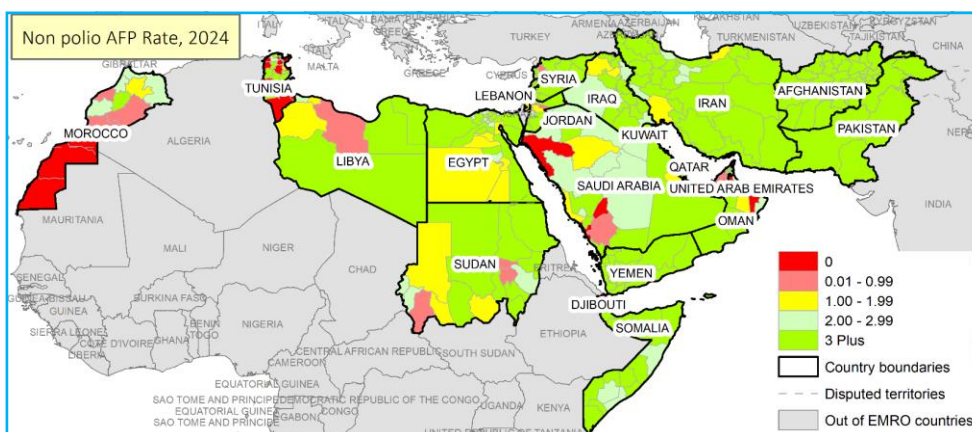
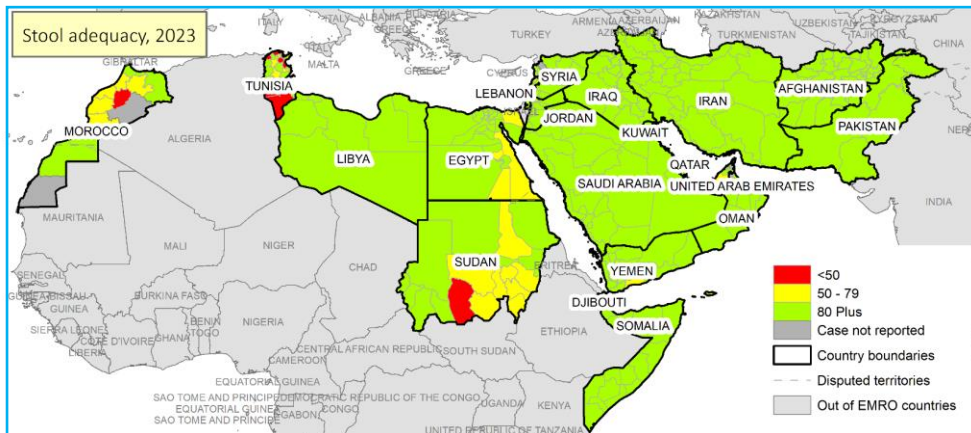
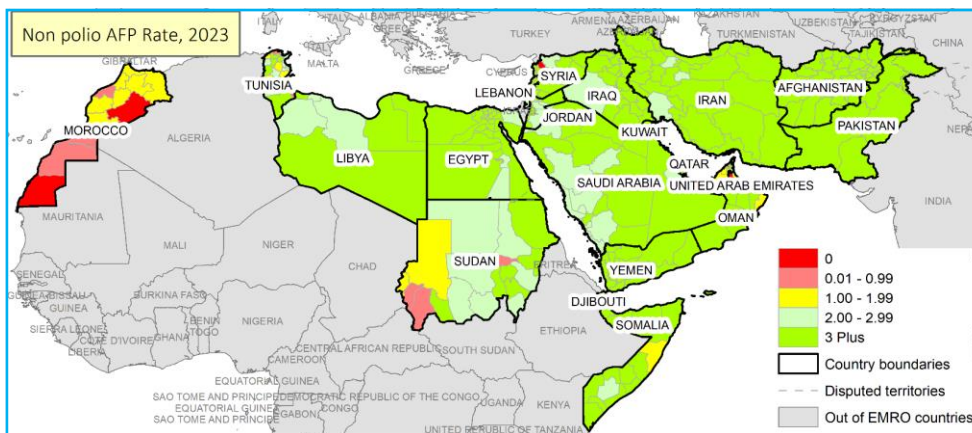
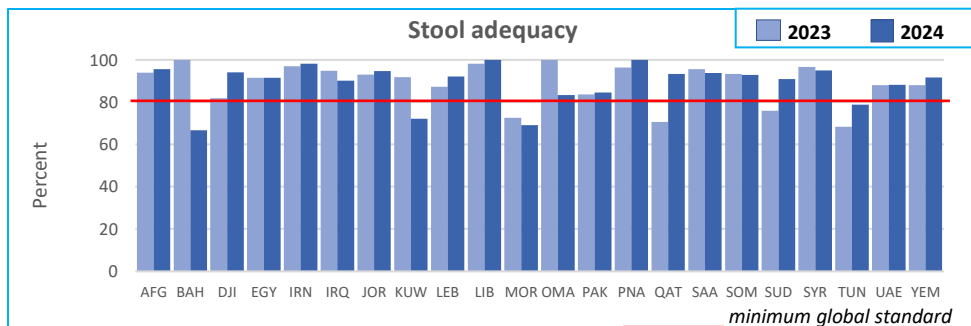
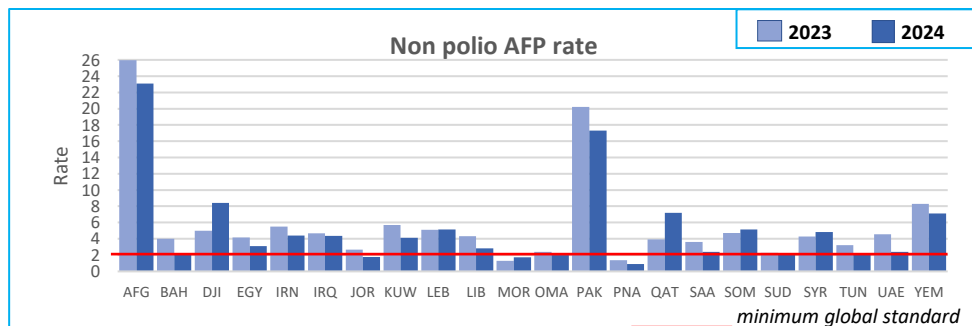
- Five new cVDPV2 cases in 2024 reported this week from Yemen. The new cases are: 4 from Al Hudaidah province (2 from Zabeid, and one each from Al Dirihimi and Allahya districts) and 1 from Dhamar province (Maghreb Anis district), with dates of onset varies between 10<sup>th</sup> to 27<sup>th</sup> April 2024. The total count of cVDPV2 cases to date in 2024 is 17 (15 from Yemen and 2 from Somalia), while in 2023, the count remains 16 (8 each from Somalia and Yemen).
- No new cVDPV2 positive ES reported this week. The count of the cVDPV2 positive ES in 2024 to date is 6 (2 each from Yemen and Sudan and 1 each from Egypt and Somalia), and in 2023 the count remains 41 (16 from Yemen, 11 from Egypt, 9 from Somalia, and 5 from Sudan).

Wild Poliovirus type-1 (WPV1) Vaccine-derived Poliovirus (VDPV)

# EMR Polio Bulletin

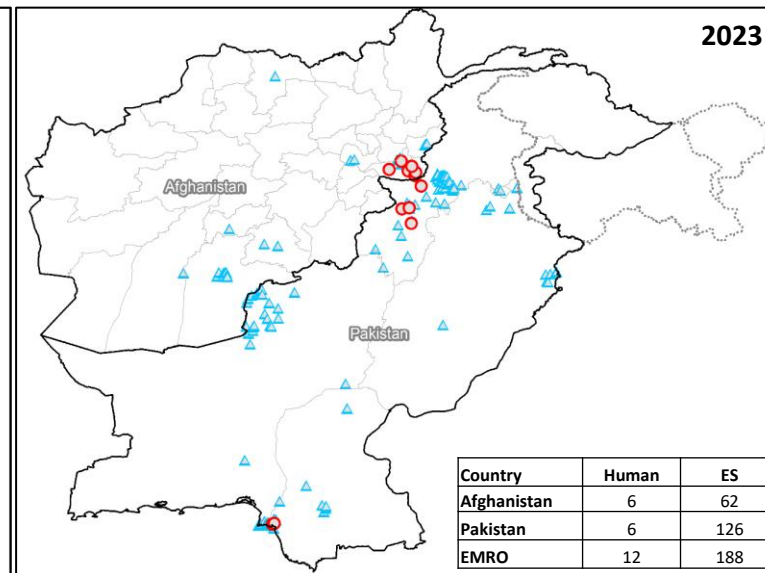
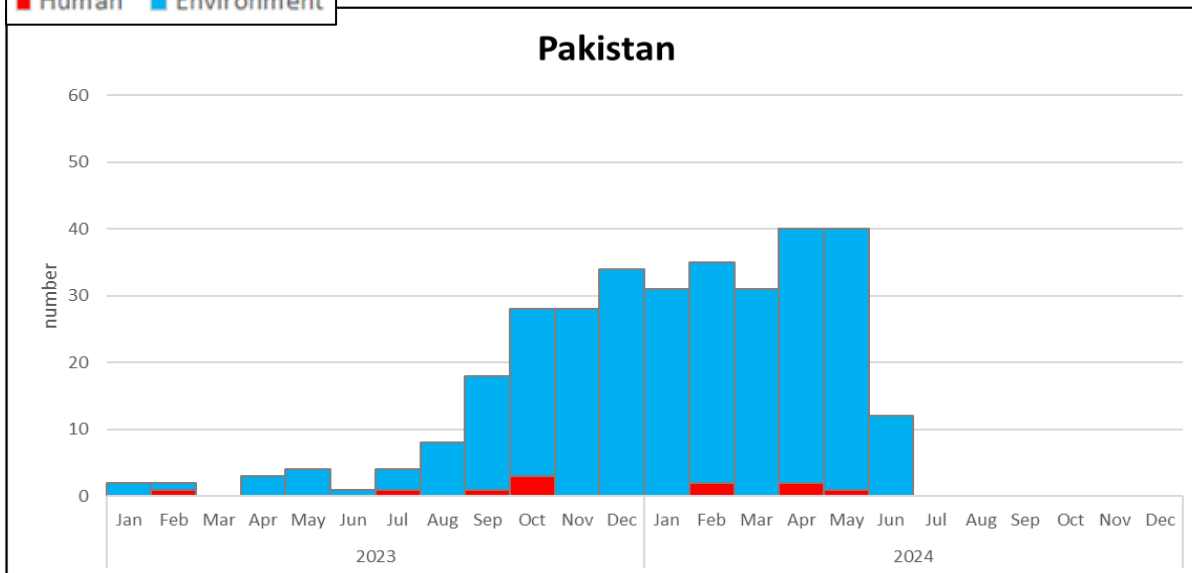
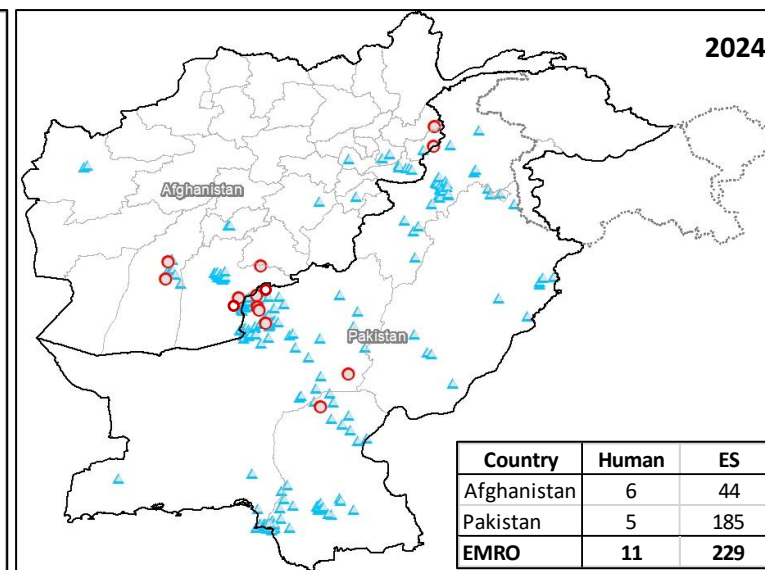
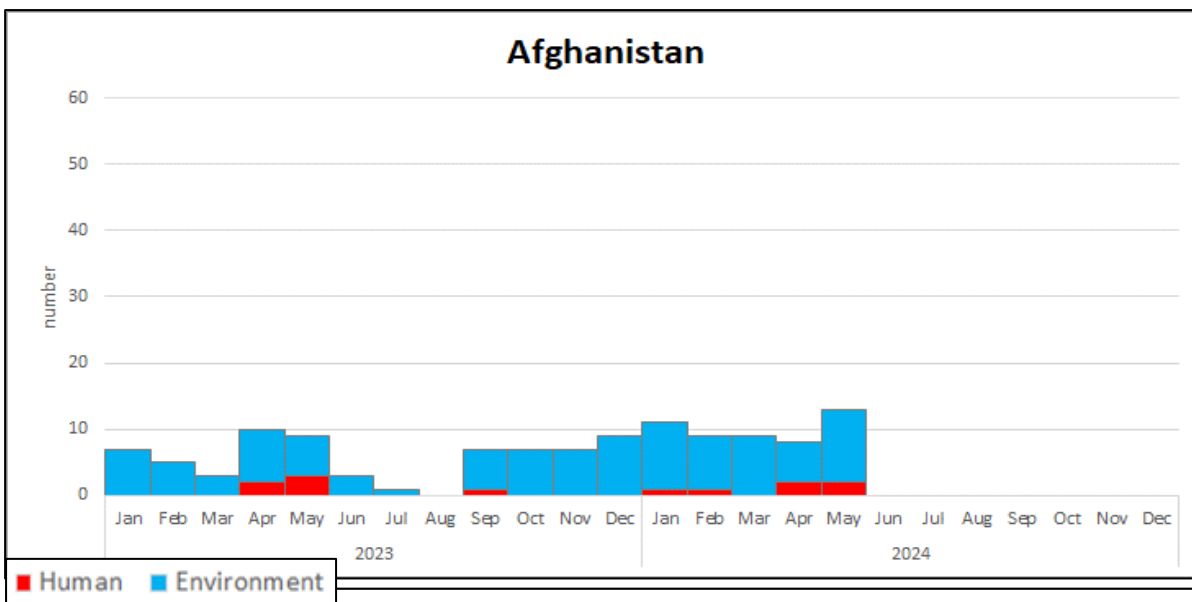
World Health Organization – Regional Office for Eastern Mediterranean Issue No. 1342, Week 25 (ending on 23/06/2024)

## Key surveillance indicators



# WPV1 Positive isolates from Afghanistan and Pakistan by source

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## Virus isolation by country, last 12 months (23 June 2023, to 23 June 2024)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
<b>Human (AFP only)</b>	<b>7</b>	<b>10</b>	<b>1</b>	<b>8</b>		<b>22</b>	<b>48</b>
Wild	7	10					17
cVDPV2				8		22	30
VDPV2			1				1
<b>Environment</b>	<b>74</b>	<b>300</b>	<b>12</b>	<b>7</b>	<b>7</b>	<b>12</b>	<b>412</b>
Wild	74	299					373
cVDPV2			12	7	7	12	38
WILD+VDPV1		1					1
<b>Total</b>	<b>81</b>	<b>310</b>	<b>13</b>	<b>15</b>	<b>7</b>	<b>34</b>	<b>460</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

EMR Polio Bulletin - Issue No. 1342, Week 25 (ending on 23/06/2024)

Country	Total year 2022	Total year 2023	23 June		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2023						2024						
			2023	2024	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Afghanistan	2	6	5	6	0	0	1	0	0	0	1	1	0	2	2		22-May-24
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	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	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				
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	0	0	0	0			
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	20	6	1	5	1	0	1	3	0	0	0	2	0	2	1		11-May-24
Palestine ****	0	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	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						
Yemen	0	0	0	0	0	0	0	0	0	0	0						
EMR	22	12	6	11	1	0	2	3	0	0	1	3	0	4	3	0	22-May-24

\*\*\*\* 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	2498	6	0	2280	0	6	0	23.10	95.64	5856	6	0	5850	0	0	0	25.98	93.97	23-Jun-24
BAHRAIN	3	0	0	0	0	0	0	2.10	66.67	12	0	0	12	0	0	0	4.01	100.00	23-Jun-24
DJIBOUTI	17	0	0	4	0	2	1	11.24	94.12	22	0	0	22	0	0	0	5.23	81.82	22-Jun-24
EGYPT	610	0	0	572	0	14	0	3.01	91.48	1714	0	0	1714	1	0	0	4.16	91.48	13-Jun-24
IRAN	443	0	0	415	0	0	0	4.39	98.42	1150	0	0	1150	0	0	0	5.48	97.13	22-Jun-24
IRAQ	366	0	0	306	0	24	0	4.26	90.16	820	0	0	820	0	0	0	4.66	94.88	22-Jun-24
JORDAN	38	0	0	31	0	0	0	1.70	94.74	116	0	0	116	0	0	0	2.68	93.10	13-Jun-24
KUWAIT	18	0	0	17	0	0	0	4.41	77.78	49	0	0	49	0	0	0	5.69	91.84	9-Jun-24
LEBANON	38	0	0	26	0	1	0	4.62	92.11	79	0	0	79	0	0	0	5.11	87.34	23-Jun-24
LIBYA	35	0	0	26	0	0	0	2.82	100.00	115	0	0	115	0	0	0	4.43	99.13	22-Jun-24
MOROCCO	94	0	0	0	0	54	0	1.83	69.15	150	0	0	150	0	0	0	1.28	72.67	21-Jun-24
OMAN	12	0	0	10	0	0	0	1.97	83.33	30	0	0	30	0	0	0	2.38	100.00	20-Jun-24
PAKISTAN	8119	5	0	6883	0	137	1	17.32	84.65	19771	6	0	19765	0	0	0	20.22	83.78	23-Jun-24
PALESTINE	9	0	0	5	0	0	0	0.88	100.00	28	0	0	28	0	0	0	1.35	96.43	23-Jun-24
QATAR	15	0	0	2	0	4	0	7.19	93.33	17	0	0	17	0	0	0	3.91	70.59	23-Jun-24
SAUDI ARABIA	96	0	0	55	0	2	0	2.54	93.75	301	0	0	301	0	0	0	3.60	95.68	23-Jun-24
SOMALIA	224	0	0	199	2	0	0	5.08	92.86	433	0	0	425	8	0	0	4.81	93.30	23-Jun-24
SUDAN	209	0	0	11	0	74	3	4.81	90.91	473	0	0	465	0	8	0	2.28	75.90	23-Jun-24
SYRIA	180	0	0	158	0	0	0	4.83	95.00	332	0	0	332	0	0	0	4.27	96.69	23-Jun-24
TUNISIA	33	0	0	24	0	0	0	2.20	78.79	95	0	0	95	0	0	0	3.20	68.42	7-Jun-24
U.A.E.	17	0	0	7	0	5	5	2.48	88.24	67	0	0	67	0	0	0	4.54	88.06	27-May-24
YEMEN	554	0	0	295	15	23	14	7.13	91.70	1331	0	0	1321	9	1	0	8.33	88.05	9-Jun-24
EMR POL	13628	11	0	11326	17	346	24	10.11	88.27	32961	12	0	32923	18	9	0	11.30	87.20	

\* 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	2487	133	13	309	1857	71	3	5 *	79						96					2	10%	87%	100%	80%	23-Jun-24	
Bahrain	NPL Oman / CDC	3				2	1															0%	100%		100%	16-Jun-24	
Djibouti	NPL Kenya / CDC	17				7	1	9														0%	25%		86%	22-Jun-24	
Egypt	RRL Egypt	709	7		46	601	28	27		1						5						6%	94%	100%	100%	13-Jun-24	
Iran	NPL Iran / CDC	503	3		4	461	34	1		2						3						1%	100%	100%	99%	22-Jun-24	
Iraq	NPL Iraq, RRL Egypt	369	11		43	276	19	20		3						9						12%	100%	100%	99%	13-Jun-24	
Jordan	NPL Jordan, RRL Egypt	37			7	29	1															18%	86%		97%	23-Jun-24	
Kuwait	RRL Kuwait / RIVM	19	1		1	16	1													1		3%	89%		100%	23-Jun-24	
Lebanon	NPL Syria, RRL Egypt	34				28	6															0%	100%			23-Jun-24	
Libya	RRL Tunisia / RIVM	27				27																0%	100%		30%	14-Jun-24	
Morocco	NPL Morocco, RRL Tunisia	81				77	1	3														0%	97%		99%	21-Jun-24	
Oman	NPL Oman / CDC	12				10	2															4%	90%		100%	16-Jun-24	
Pakistan	RRL Pakistan	8000	351	14	943	6273	376	16	3 *	208						254		1				10%	91%	100%	96%	23-Jun-24	
Palestine & UNRWA		9			1	7		1														13%	38%		100%	23-Jun-24	
Qatar	NPL Oman / CDC	15	1			13	1									1						0%	100%	1	100%	23-Jun-24	
Saudi Arabia	NPL Saudi Arabia / CDC	80	3		5	66		6		1						1			1			6%	88%	67%	100%	23-Jun-24	
Somalia	NPL Kenya / CDC	224	8		26	167	1	22		4				2		2						13%	3%		91%	23-Jun-24	
Sudan	NPL Sudan / RRL Egypt	120			19	101																13%	100%		31%	14-Apr-23	
Syria	NPL Syria / RRL Egypt	174	2		7	156	9															5%	100%			23-Jun-24	
Tunisia	RRL Tunisia	32				32																0%	100%		100%	14-Jun-24	
U.A.E	NPL Oman / CDC	17			1	11	5															7%	50%		8%	16-Jun-24	
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	417	28	1	66	305		18		4			1	14 **		4		11				16%	19%	97%	14%	09-Jun-24	
Total EMR 2024		13386	548	28	1478	10522	557	126	11 *	302			2	17 **		375		1		1	1	8%	87%	99%	93%		
Total EMR 2023		32173	1012	81	4533	26509		30	12 *	656			8	22		766			4	3	1	12%	90%	100%	92%		

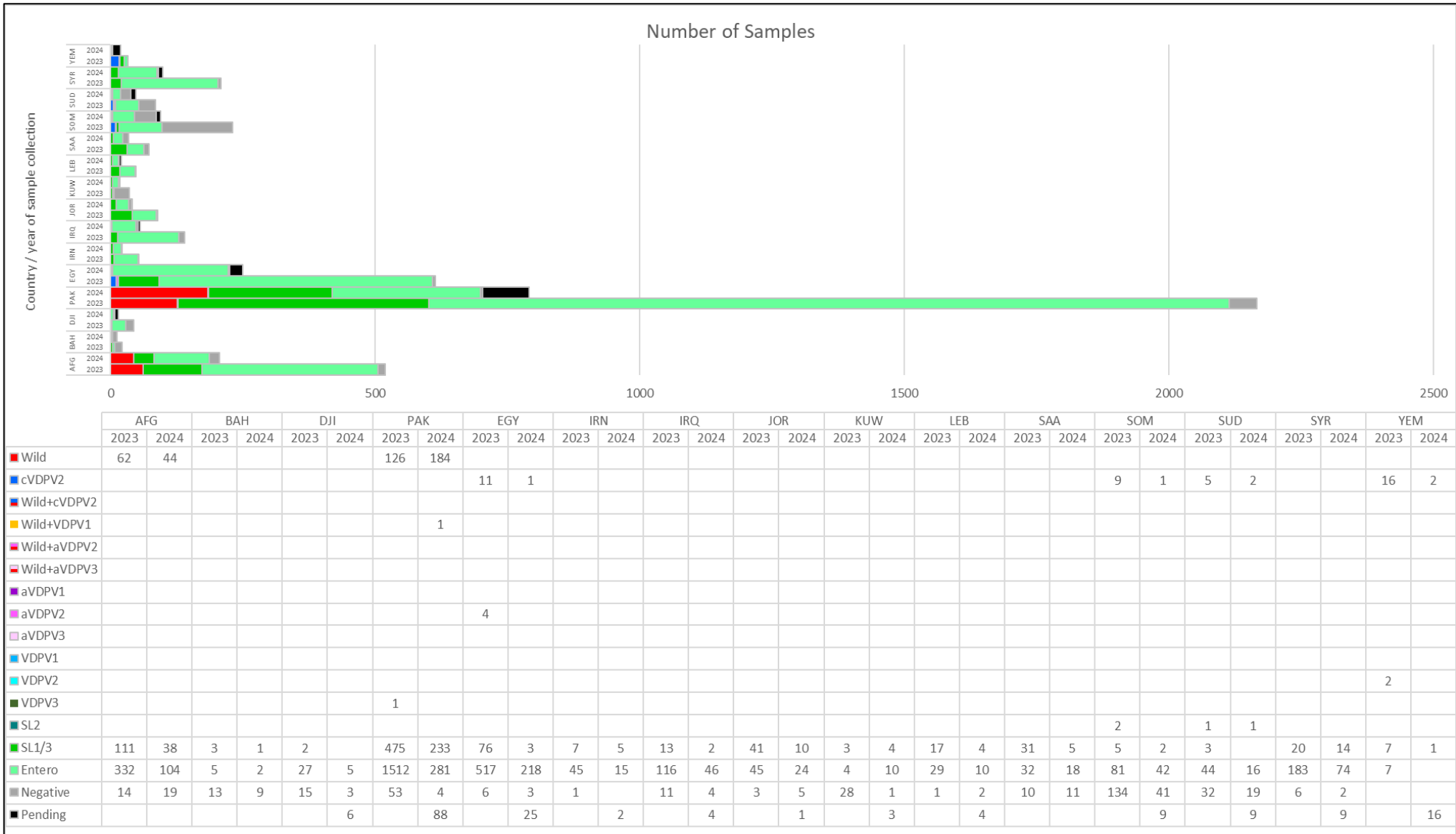
\* In 2024 - Three WPV1 cases are confirmed due to positive contact (Index cases were negative for WPV1)

In 2023 - Two WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

\*\* In 2024 – One cVDPV2 case was confirmed due to two positive contacts (Index case was negative for cVDPV2)

# Environmental Surveillance Isolation by Classification

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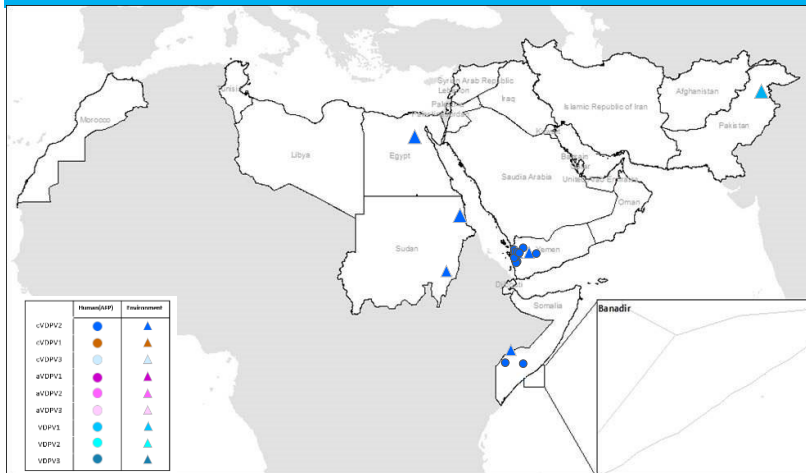




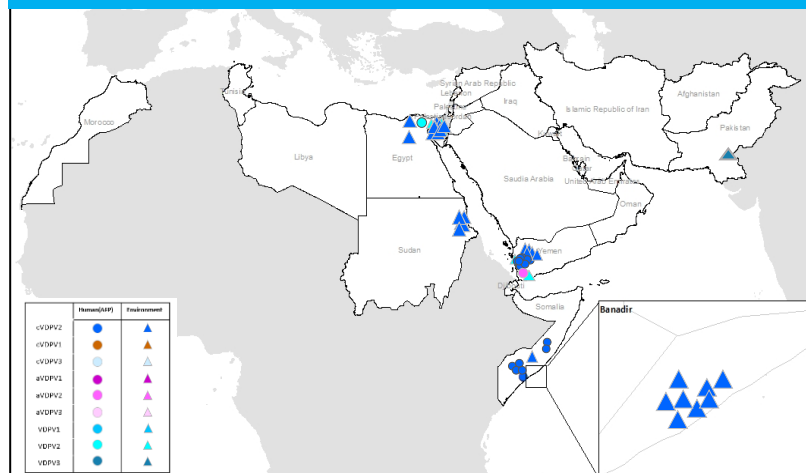
# VDPVs isolations by Source and Country

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## VDPV Isolates, EMR countries, 2024



## VDPV Isolates, EMR countries, 2023



## VDPVs isolated from 2019-2024

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	2	08-03-24	1	11		6	3	3	12-03-24	5	26	1	6	9	1	11-03-24	1	5		1		10-03-22
	Sudan		58		1			31-10-22		18					08-10-20		14		1	5	2	24-01-24		4				24-08-20
	Yemen			66	162	8	15	27-04-24				23	40	1	2	09-03-24		13	26	16	2	22-01-24						
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						
	Pakistan																			1		14-02-24						
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																			1		24-01-24						
	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)