

# EMR Polio Bulletin

World Health Organization – Regional Office for Eastern Mediterranean Issue No. 1311, Week 46 (ending on 19/11/2023)

## 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

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

- 8 cases of cVDPV2
  - 05 in Somalia
  - 03 in Yemen

- Zero case of cVDPV1



Sewage  
water  
sampling

### 2022

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

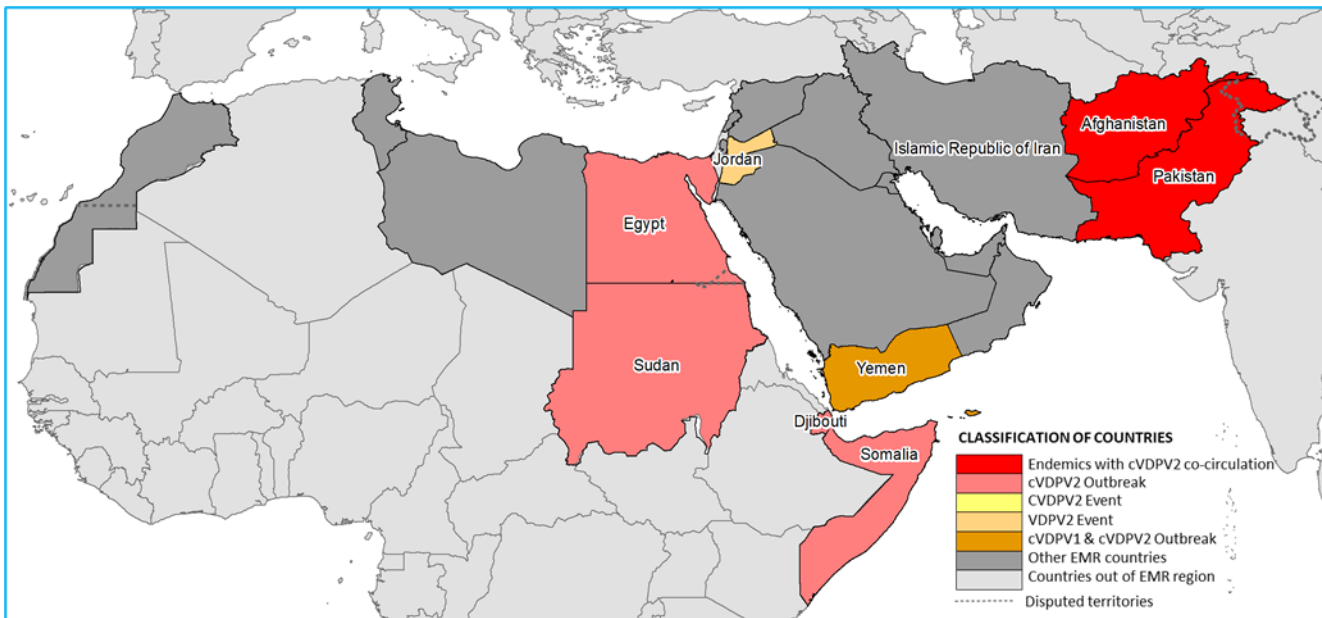
- 53 samples cVDPV2
  - 06 in Egypt
  - 12 in Djibouti
  - 06 in Somalia
  - 01 in Sudan
  - 28 in Yemen

### 2023

- 110 samples Wild Polio 1
  - 46 in Afghanistan
  - 64 in Pakistan

- 15 samples of cVDPV2
  - 06 in Somalia
  - 03 in Yemen
  - 06 in Egypt

## Classification of EMR countries by type of poliovirus circulation



## Highlights of the week

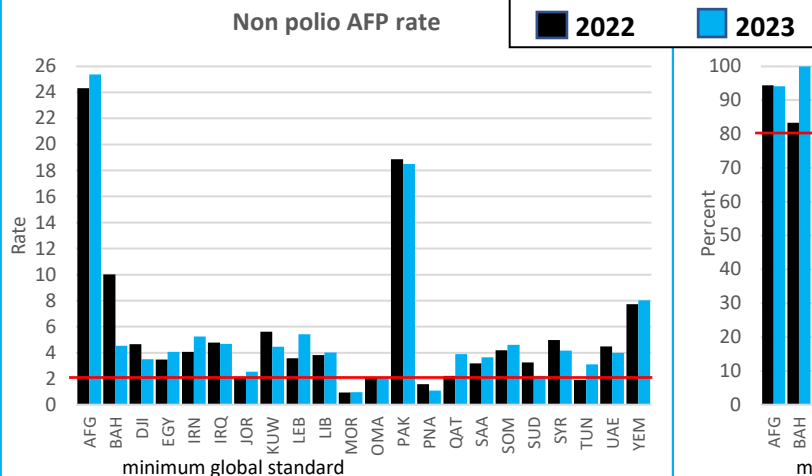
### Wild Poliovirus

- No new WPV1 case reported this week. The WPV1 cases count in 2023 to date is 11 (6 from Afghanistan and 5 from Pakistan) and in 2022, the WPV1 cases count remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- No new WPV1 positive environmental samples reported this week. The positive WPV1 ES count in 2023 to date is 110 (46 in Afghanistan and 64 in Pakistan), and in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

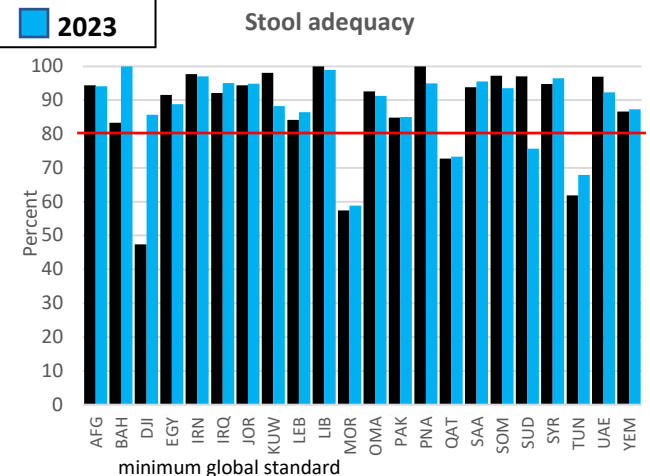
### Circulating Vaccine derived poliovirus (cVDPV)

- No new cVDPV2 case reported this week. The count of cVDPV2 cases in 2023 to date is 8 (5 from Somalia and 3 from Yemen) and in 2022 the count remains to be 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
- No new cVDPV2 positive environmental sample was reported this week. The cVDPV2 positive environmental samples count in 2023 to date is 15 (6 each from Egypt and Somalia and 3 from Yemen) and in 2022, the count remains 53 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 28 in Yemen).

### Non polio AFP rate



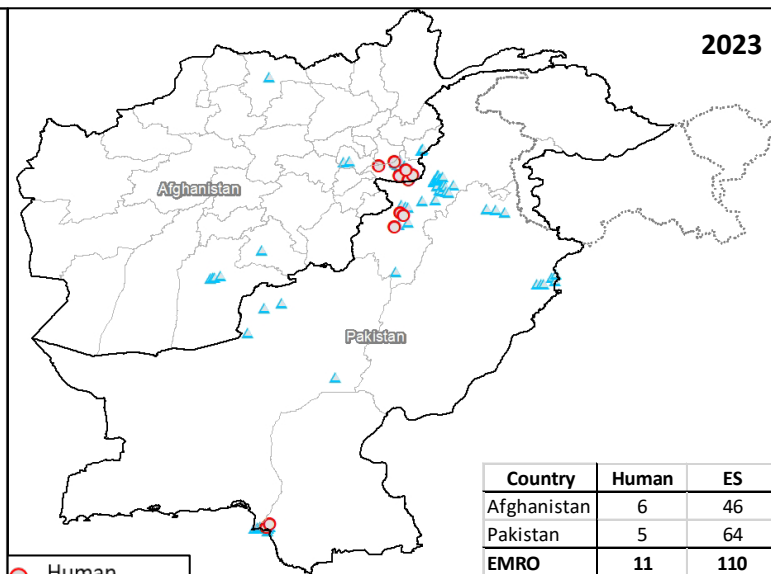
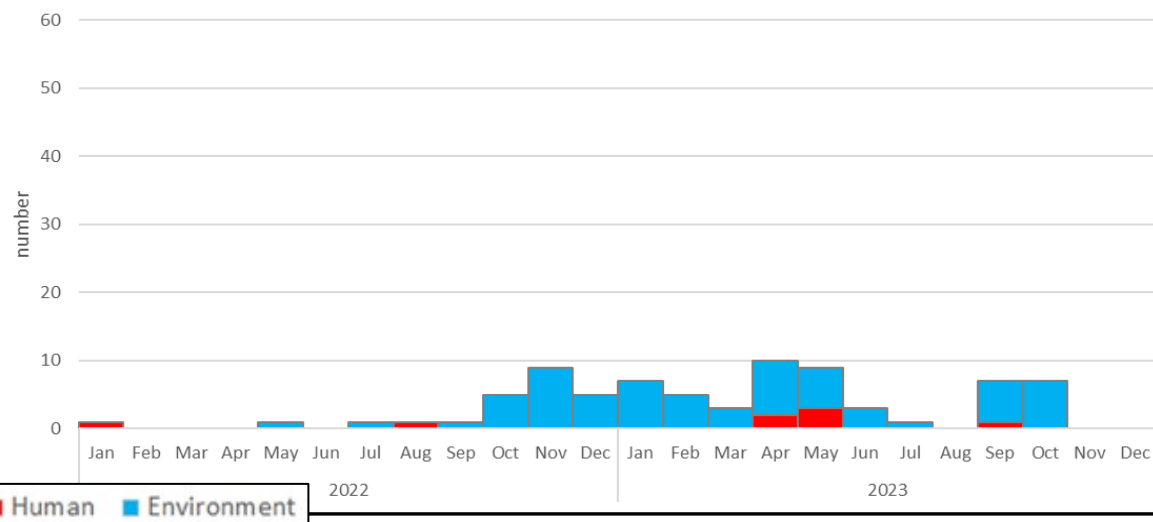
### Stool adequacy



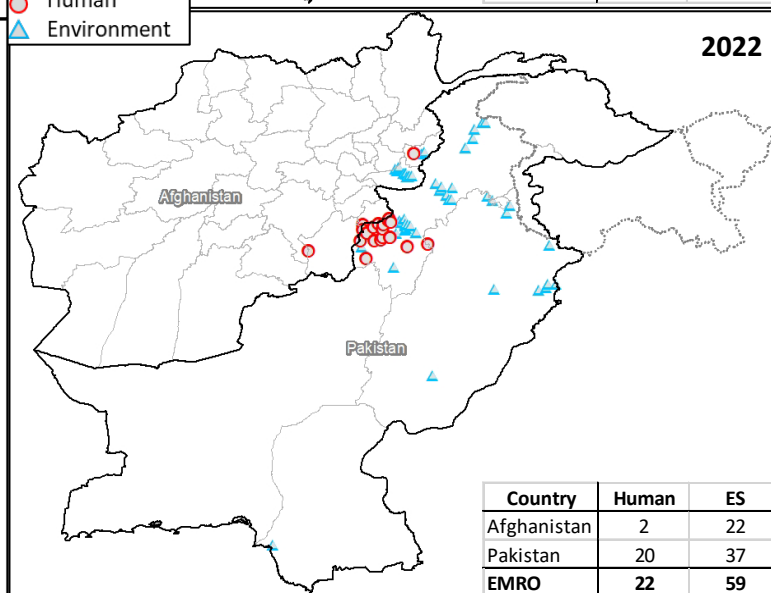
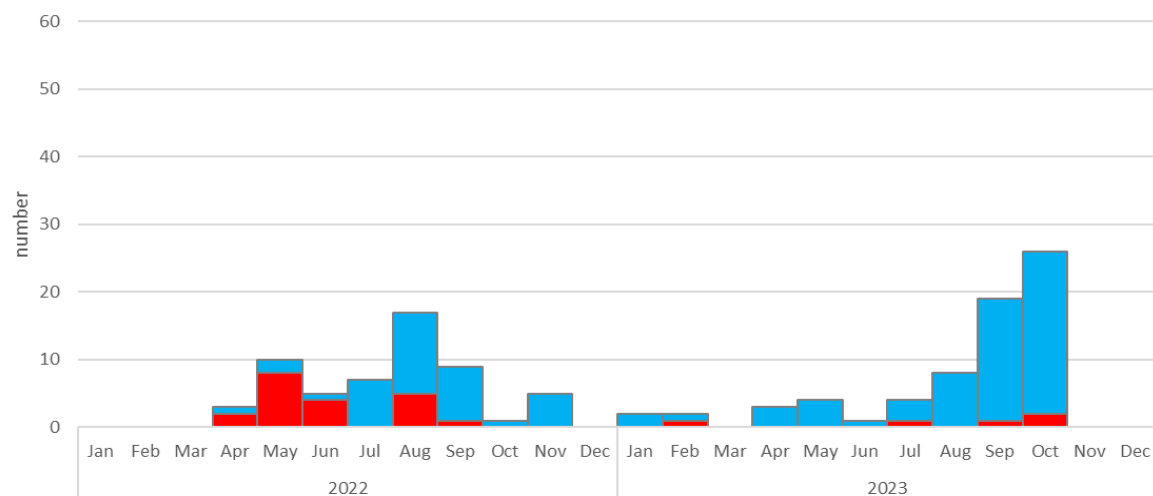
# WPV1 Positive isolates from Afghanistan and Pakistan by source

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## Afghanistan



## Pakistan



For further details on Wild Poliovirus click: [line-list of WPV isolates](#)

# Virus isolation by country, last 12 months (Nov. 19, 2022, to Nov. 19, 2023)

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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>5</b>		<b>6</b>	<b>23</b>
Wild	6	5					11
cVDPV2				5		5	10
aVDPV2							
VDPV2			1			1	2
VDPV3							
<b>Environment</b>	<b>55</b>	<b>67</b>	<b>10</b>	<b>7</b>	<b>2</b>	<b>7</b>	<b>148</b>
Wild	55	66					121
cVDPV2			6	7	1	6	21
aVDPV2			4				4
VDPV2					1	1	1
VDPV3		1					1
<b>Total</b>	<b>61</b>	<b>72</b>	<b>11</b>	<b>12</b>	<b>2</b>	<b>13</b>	<b>171</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	19 November		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
			2022	2023	2023												
					Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
Afghanistan	4	2	2	6	0	0	0	0	2	3	0	0	0	1			04-Sep-23
Bahrain	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				
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	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			
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					
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	1	20	20	5		0	1	0	0	0	0	1	0	1	2		15-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	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							
EMR	5	22	22	11	0	0	1	0	2	3	0	1	0	2	2	0	15-Oct-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	5064	6	0	4795	0	12	1	25.38	94.1	5368	2	0	5365	1	0	0	24.33	94.4	19-Nov-23
Bahrain	12	0	0	9	0	2	0	4.53	100.0	30	0	0	30	0	0	0	10.02	83.3	19-Nov-23
Djibouti	14	0	0	9	0	0	0	3.49	85.7	19	0	0	19	0	0	0	4.65	47.4	18-Nov-23
Egypt	1482	0	0	1264	1	20	1	4.06	88.8	1394	0	0	1394	0	0	0	3.48	91.5	16-Nov-23
Iraq	728	0	0	674	0	12	0	4.68	95.1	835	0	0	835	0	0	0	4.78	92.1	16-Nov-23
Islamic Republic of Iran	982	0	0	947	0	0	0	5.25	97.0	824	0	0	824	0	0	0	4.06	97.7	18-Nov-23
Jordan	98	0	0	92	0	0	0	2.55	94.9	89	0	0	89	0	0	0	2.14	94.4	16-Nov-23
Kuwait	34	0	0	34	0	0	0	4.46	88.2	52	0	0	52	0	0	0	5.62	98.1	23-Oct-23
Lebanon	74	0	0	61	0	6	0	5.41	86.5	57	0	0	57	0	0	0	3.58	84.2	12-Nov-23
Libya	93	0	0	88	0	0	0	4.01	98.9	99	0	0	99	0	0	0	3.82	100.0	11-Nov-23
Morocco	102	0	0	42	0	41	4	0.97	58.8	94	0	0	92	0	2	1	0.93	57.4	24-Oct-23
Oman	23	0	0	22	0	0	0	2.06	91.3	27	0	0	27	0	0	0	2.10	92.6	12-Nov-23
Pakistan	16007	5	0	14994	0	181	0	18.50	85.0	19032	20	1	19011	0	0	3	18.85	84.9	19-Nov-23
Palestine	20	0	0	16	0	1	0	1.09	95.0	33	0	0	32	1	0	0	1.59	100.0	15-Oct-23
Qatar	15	0	0	11	0	2	0	3.90	73.3	11	0	0	11	0	0	0	2.22	72.7	11-Nov-23
Saudi Arabia	269	0	0	187	0	2	0	3.64	95.5	274	0	0	274	0	0	0	3.18	93.8	12-Nov-23
Somalia	370	0	0	351	5	0	0	4.59	93.5	356	0	0	349	7	0	0	4.20	97.2	19-Nov-23
Sudan	411	0	0	336	0	25	1	2.23	75.7	650	0	0	649	1	0	0	3.24	97.1	19-Nov-23
Syrian Arab Republic	286	0	0	270	0	0	0	4.15	96.5	382	0	0	382	0	0	0	4.96	94.8	18-Nov-23
Tunisia	81	0	0	75	0	1	1	3.11	67.9	55	0	0	55	0	0	0	1.91	61.8	19-Nov-23
United Arab Emirates	52	0	0	36	0	6	0	3.98	92.3	66	0	0	66	0	0	0	4.47	97.0	08-Nov-23
Yemen	1137	0	0	900	4	16	12	8.02	87.3	1377	0	1	1214	162	0	0	7.73	86.6	18-Nov-23
EMR POL	27354	11	0	25213	10	327	20	10.59	87.9	31124	22	2	30926	172	2	4	10.71	88.0	

\* 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

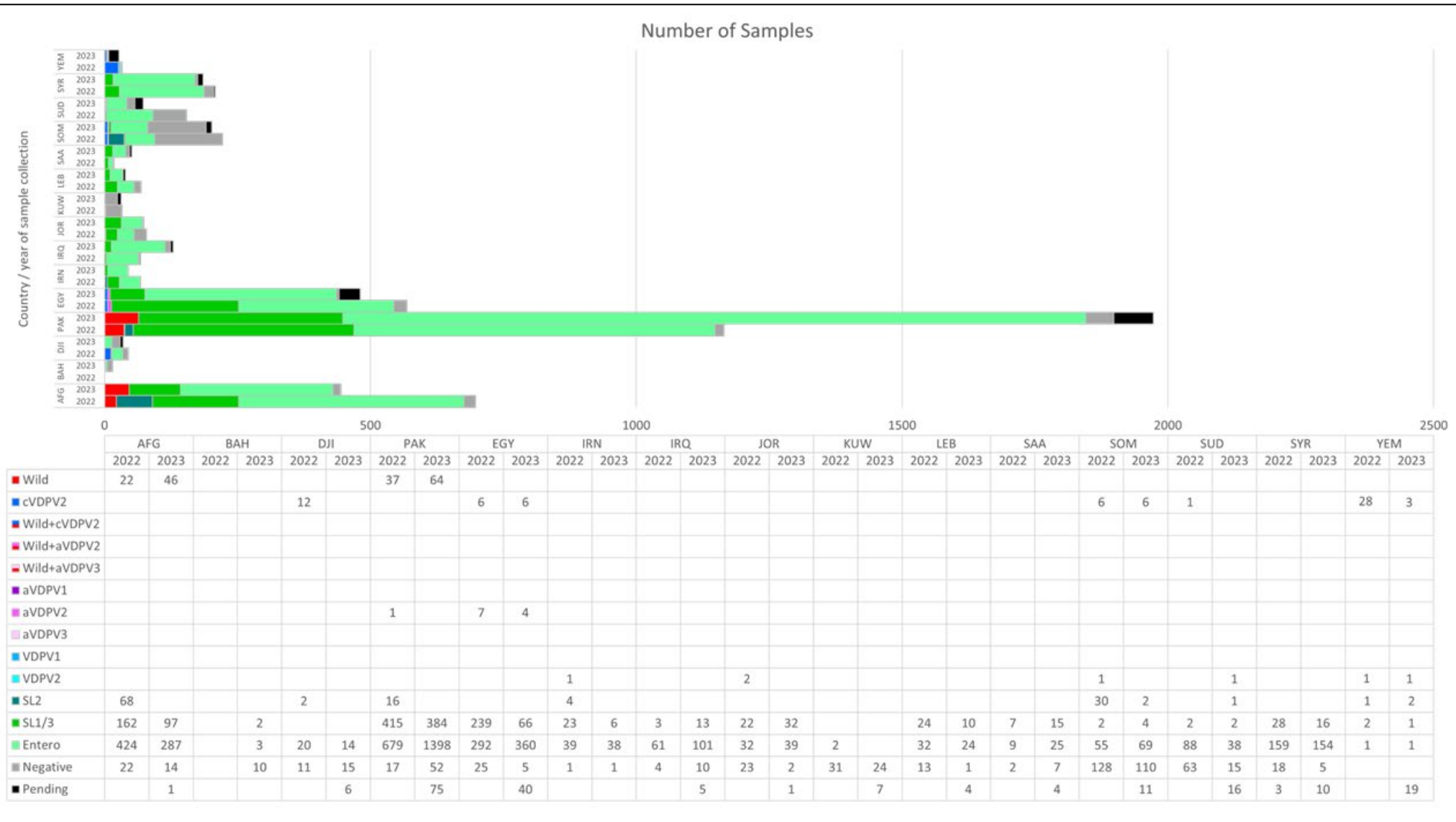
\*\*\* Adequate here refers to two stool specimens collected at least 24 hours apart, with 14 days of paralysis onset and specimens received in the lab in 'Good Condition'

\*\*\*\* Includes all VDPV cases. Further details available in page (8)

For further details on Contacts click: [detail of contact samples](#)

# Environmental Surveillance Isolation by Classification

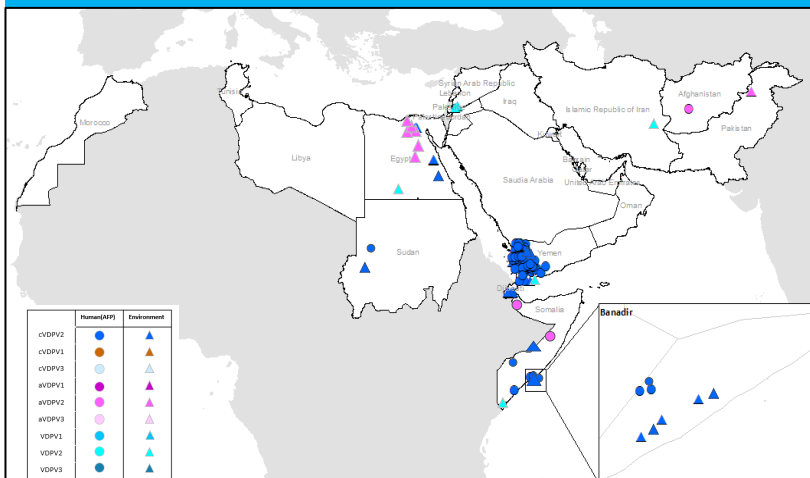
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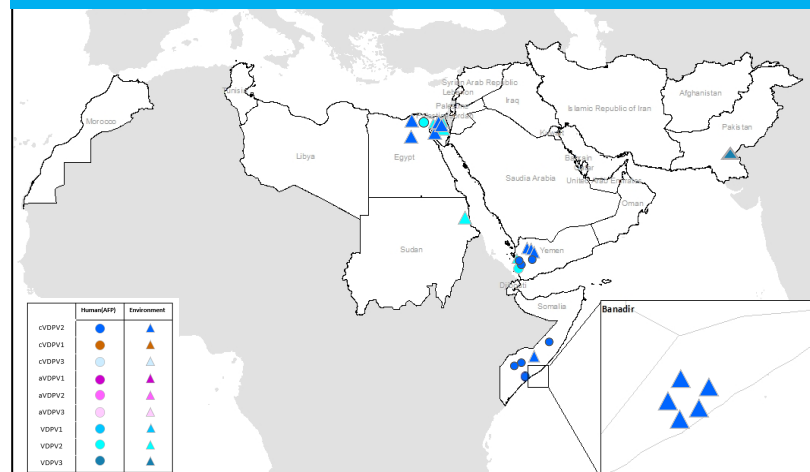
# VDPVs isolations by Source and Country

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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	6		13-09-23							
	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	5	16-09-23	3	1	11		5		31-08-22	19	5	26	1	6	6	07-09-23		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	3	28-08-23				23	40	19-12-22				13	28	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																						
	Iran																			1		04-02-22								
	Jordan																			2		25-05-22								
	Somalia					1		01-09-22												1		22-04-23								
	Sudan																				1	18-09-23								
	Yemen						1	09-05-23												1	1	26-04-23								
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)