

EMR Polio Bulletin

World Health Organization – Regional Office for Eastern Mediterranean Issue No. 1337, Week 20 (ending on 19/05/2024)

Highlights



**Children
Paralyzed
by polio**

2023

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

2024

- 5 cases of Wild Polio 1
 - 03 in Afghanistan
 - 02 in Pakistan

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

- 9 cases of cVDPV2
 - 02 in Somalia
 - 07 in Yemen

- Zero cVDPV1 cases

- Zero cVDPV1 cases



**Sewage
water
sampling**

2023

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

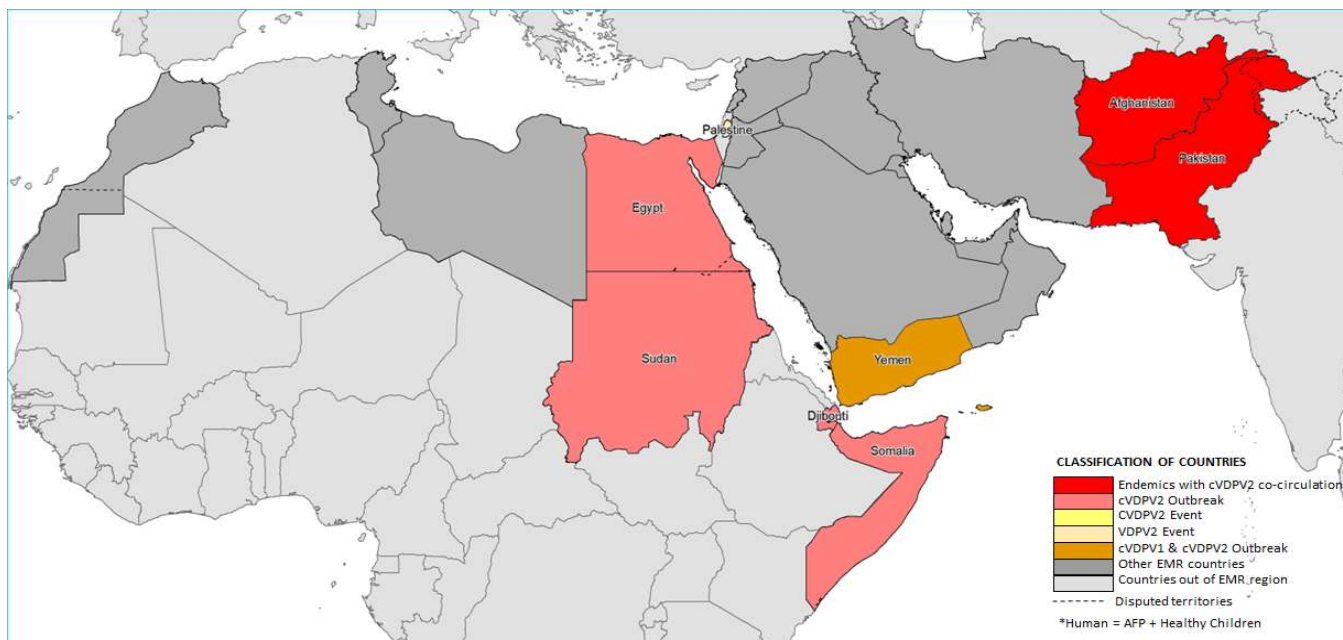
2024

- 167 samples Wild Polio 1
 - 33 in Afghanistan
 - 134 in Pakistan

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

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

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

Wild Poliovirus

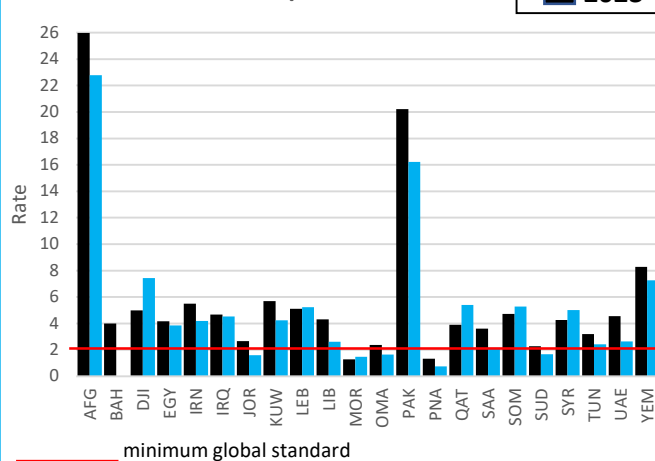
- No new WPV1 case reported this week. The WPV1 case count in 2024 to date is 5 (3 from Afghanistan and 2 from Pakistan), and for 2023, the count remains to be 12 (6 each from Afghanistan and Pakistan).
- Four new WPV1 positive environmental samples (ES) in 2024 reported this week and all are from Afghanistan, 3 from Kandahar and 1 from Hilmand provinces, ES count to date is 167 (33 from Afghanistan and 134 from Pakistan). In 2023, the count remains to be 188 (62 in Afghanistan and 126 in Pakistan).

- Advance notification of three new WPV1 isolates from environment samples collected from Hyderabad, Chaman and Quetta districts of Pakistan, all collected in May 2024.

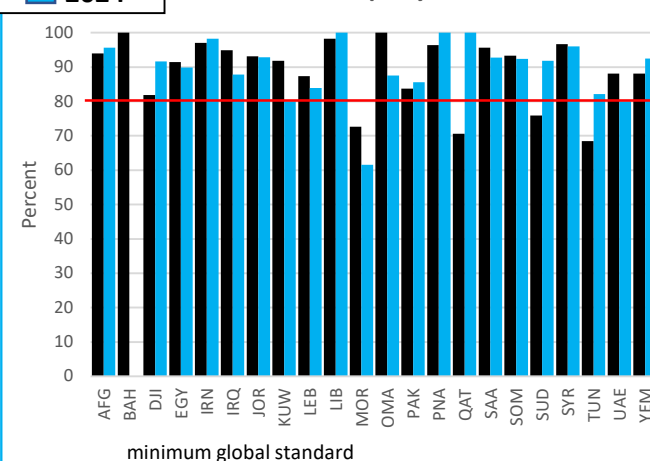
Vaccine derived poliovirus (VDPV)

- No new cVDPV2 cases reported this week. The total count of cVDPV2 cases to date in 2024 is 9 (7 from Yemen and 2 from Somalia) and in 2023 the count remains to be 16 (8 each from Somalia and Yemen).
- Two New cVDPV2 Isolates from Sudan and Somalia reported this week. The Sudan isolate is from Kosti district of White Nile province with date of collection on 24th of January 2024, and the Somalia isolate is from Dolo district of Gedo province with date of collection on 11th of March 2024. The count of the cVDPV2 positive ES in 2024 to date is 6 (2 from Yemen, 2 from Sudan and 1 each from Egypt and Somalia), and in 2023 the count remains to be 41 (16 from Yemen, 11 from Egypt, 9 from Somalia, and 5 from Sudan).

Non polio AFP rate



Stool adequacy



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

Contact us: WHO/EMRO – POL/SLD - Data

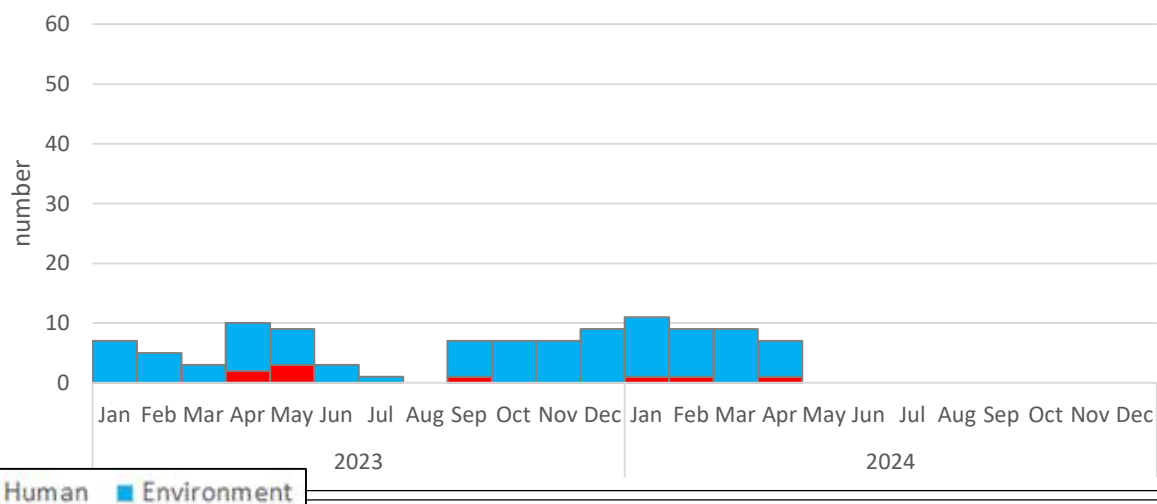
Email: emacojorpolsld@who.int

Web: <http://www.emro.who.int/polio/strategy-surveillance/em-polio-fax-issues.html>

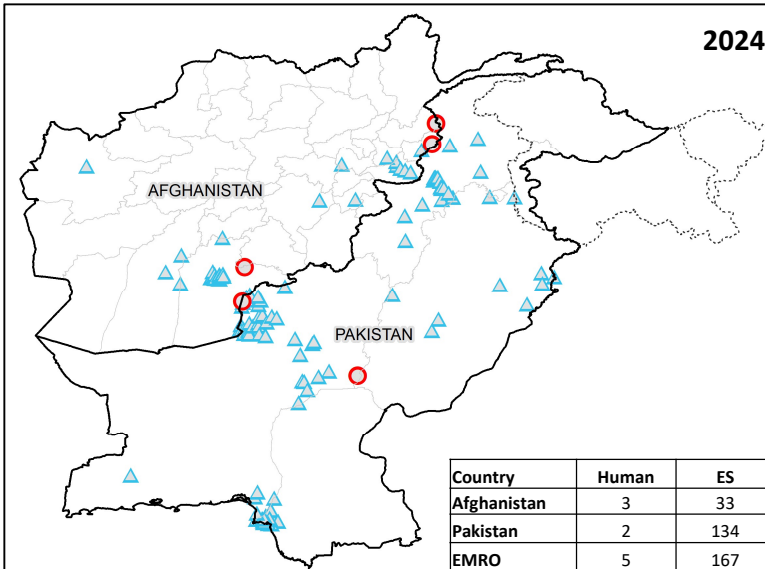
WPV1 Positive isolates from Afghanistan and Pakistan by source

EMR Polio Bulletin - Issue No. 1337, Week 20 (ending on 19/05/2024)

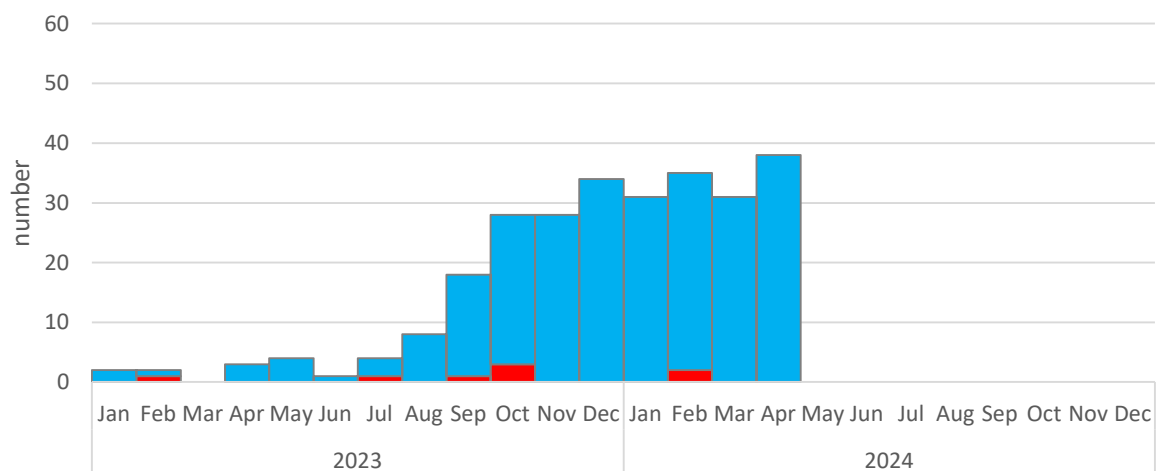
Afghanistan



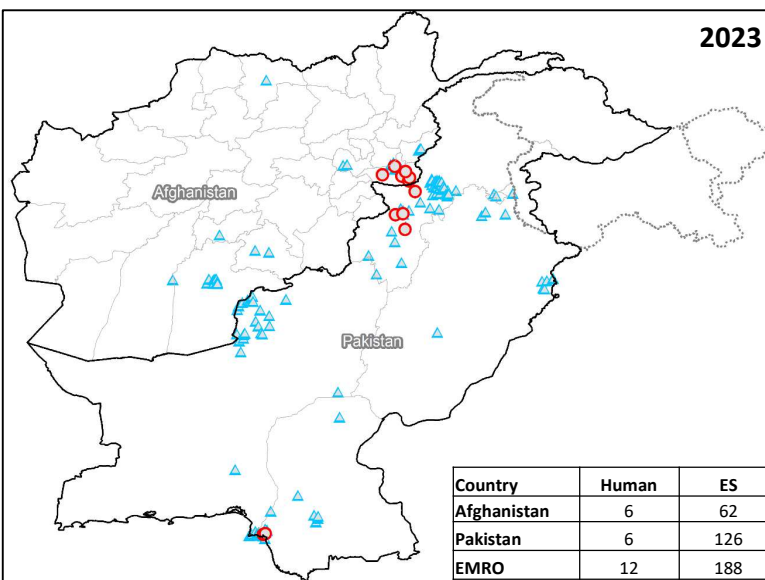
2024



Pakistan



2023



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

Virus isolation by country, last 12 months (19 May 2023, to 19 May 2024)

EMR Polio Bulletin - Issue No. 1337, Week 20 (ending on 20/05/2024)

Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	4	7	1	8		14	34
Wild	4	7					11
cVDPV2				8		14	22
cVDPV2-n							
aVDPV2							
VDPV2			1				1
VDPV3							
Environment	72	249	12	9	7	16	365
Wild	72	249					321
cVDPV2			12	9	7	15	43
cVDPV2-n							
aVDPV2							
VDPV2						1	1
VDPV3							
Total	76	256	13	17	7	30	399

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. 1337, Week 20 (ending on 19/05/2024)

Country	Total year 2022	Total year 2023	12 May		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2023							2024					
			2023	2024	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Afghanistan	2	6	3	3	0	0	0	1	0	0	0	1	1	0	1		05-Apr-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				
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				
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	20	6	1	2	0	1	0	1	3	0	0	0	2				29-Feb-24
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							
Syria ****	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					
Yemen	0	0	0	0	0	0	0	0	0	0							
EMR	22	12	4	5	0	1	0	2	3	0	0	1	3	0	1	0	29-Feb-24

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

Investigation of AFP cases with paralysis onset in 2023 & 2024

EMR Polio Bulletin - Issue No. 1337, Week 20 (ending on 19/05/2024)

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	1970	3	0	1661	0	2	0	22.78	96	5855	6	0	5849	0	0	3	25.97	94	19-May-24
Bahrain	0							0.00		12	0	0	12	0	0	0	4.01	100	19-May-24
Djibouti	12	0	0	4	0	0	0	7.44	92	22	0	0	22	0	0	0	4.99	82	19-May-24
Egypt	610	0	0	508	0	7	1	3.86	90	1714	0	0	1714	1	0	1	4.16	91	19-May-24
Iraq	304	0	0	222	0	16	0	4.52	88	820	0	0	820	0	0	0	4.66	95	18-May-24
Islamic Republic of Iran	336	0	0	320	0	0	0	4.18	98	1150	0	0	1150	0	0	0	5.49	97	11-May-24
Jordan	28	0	0	20	0	0	0	1.59	93	116	0	0	116	0	0	0	2.68	93	16-May-24
Kuwait	15	0	0	14	0	0	0	4.24	80	49	0	0	49	0	0	0	5.69	92	12-May-24
Lebanon	31	0	0	17	0	0	0	5.23	84	79	0	0	79	0	0	0	5.11	87	17-May-24
Libya	26	0	0	13	0	0	0	2.61	100	113	0	0	113	0	0	0	4.32	98	17-May-24
Morocco	65	0	0	0	0	32	1	1.47	62	150	0	0	150	0	0	4	1.28	73	06-May-24
Oman	8	0	0	6	0	0	0	1.66	88	30	0	0	30	0	0	0	2.38	100	16-May-24
Pakistan	6093	2	0	5107	0	113	3	16.23	86	19766	6	0	19744	0	16	4	20.21	84	19-May-24
Palestine	6	0	0	1	0	3	0	0.75	100	28	0	0	27	0	1	0	1.35	96	12-May-24
Qatar	9	0	0	0	0	2	0	5.40	100	17	0	0	17	0	0	0	3.91	71	05-May-24
Saudi Arabia	69	0	0	35	0	3	0	2.15	93	301	0	0	301	0	0	0	3.60	96	12-May-24
Somalia	184	0	0	168	2	0	0	5.29	92	433	0	0	425	8	0	0	4.72	93	19-May-24
Sudan	135	0	0	11	0	37	3	1.68	92	473	0	0	452	0	21	2	2.28	76	19-May-24
Syrian Arab Republic	149	0	0	110	0	0	0	5.01	96	332	0	0	332	0	0	0	4.27	97	18-May-24
Tunisia	28	0	0	24	0	0	0	2.42	82	95	0	0	95	0	0	0	3.20	68	19-May-24
United Arab Emirates	15	0	0	1	0	4	4	2.65	80	67	0	0	67	0	0	0	4.54	88	13-May-24
Yemen	453	0	0	233	7	5	4	7.27	92	1331	0	0	1321	9	1	0	8.27	88	18-May-24
EMR POL	10546	5	0	8475	9	224	16	9.43	89	32953	12	0	32885	18	39	14	11.30	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

EMR Polio Bulletin - Issue No. 1336, Week 19 (ending on 12/05/2024)

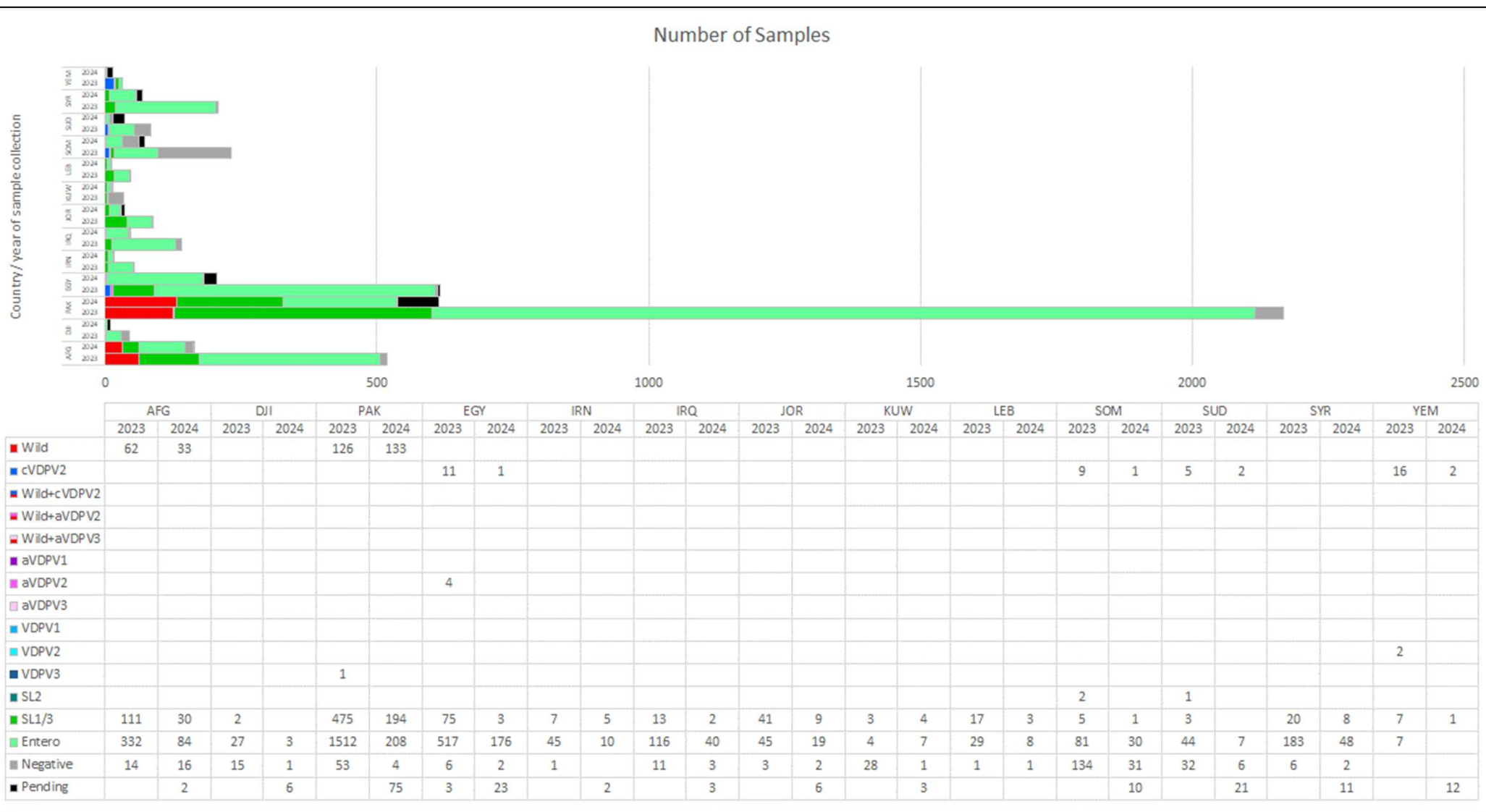
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators				Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	1818	79	10	175	1308	95	18	3	46						64						8%	82%	100%	72%	12-May-24
Bahrain	NPL Oman / CDC																									09-May-24
Djibouti	NPL Kenya / CDC	9				4		5														0%	25%		100%	11-May-24
Egypt	RRL Egypt	561	5		24	487	36	9		1						3						4%	92%	100%	100%	12-May-24
Iran	NPL Iran / CDC	384	2		4	342	36			1						2						1%	100%	100%	99%	11-May-24
Iraq	NPL Iraq, RRL Egypt	280	10		34	200	27	9		3						8						13%	100%	100%	99%	10-May-24
Jordan	NPL Jordan, RRL Egypt	25			6	13	6															32%	84%		95%	12-May-24
Kuwait	RRL Kuwait / RIVM	15	1		1	12	1													1		4%	86%		100%	12-May-24
Lebanon	NPL Syria, RRL Egypt	19				18		1														0%	100%			25-Apr-24
Libya	RRL Tunisia / RIVM	13				13																0%	100%		38%	11-May-24
Morocco	NPL Morocco, RRL Tunisia	52				45	2	5														0%	100%		98%	10-May-24
Oman	NPL Oman / CDC	8				4	2	2														6%	100%		100%	09-May-24
Pakistan	RRL Pakistan	5590	284	10	566	4241	385	66	2	168						198		1				8%	88%	100%	96%	12-May-24
Palestine & UNRWA		6				5	1															0%	20%		100%	12-May-24
Qatar	NPL Oman / CDC	10	1			8	1									1						0%	100%	1	100%	09-May-24
Saudi Arabia	NPL Saudi Arabia / CDC	62	3		5	47	1	6		1						1				1		8%	87%	67%	100%	06-May-24
Somalia	NPL Kenya / CDC	177	5		18	139	6	9		2						3		1				11%	3%		91%	12-May-24
Sudan	NPL Sudan / RRL Egypt	53			5	48																8%	100%		36%	14-Apr-23
Syria	NPL Syria / RRL Egypt	125	1		3	106		15														3%	100%			25-Apr-24
Tunisia	RRL Tunisia	25				24	1															0%	100%		100%	11-May-24
U.A.E	NPL Oman / CDC	6					6															0%				09-May-24
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	240	11		41	188		1		2			1	6**		2		1				17%	29%	91%	12%	11-May-24
Total EMR 2024		9478	402	20	882	7252	606	146	5	224			1	9**		280		2		1	1	8%	85%	100%	89%	
Total EMR 2023		32172	1012	81	4530	26507		35	12*	656			8	22		766			4	3	1	12%	90%	100%	93%	

* 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

EMR Polio Bulletin - Issue No. 1337, Week 20 (ending on 19/05/2024)

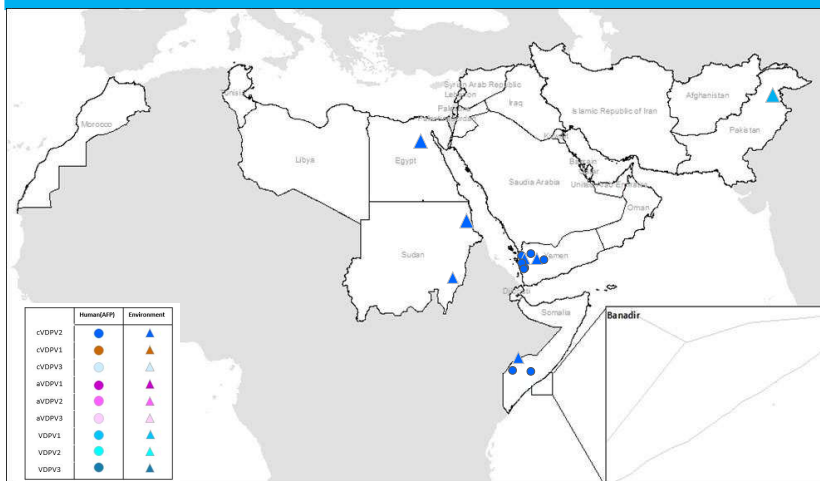


For further details on Environmental Samples Results click: [Detail of environmental surveillance samples](#)

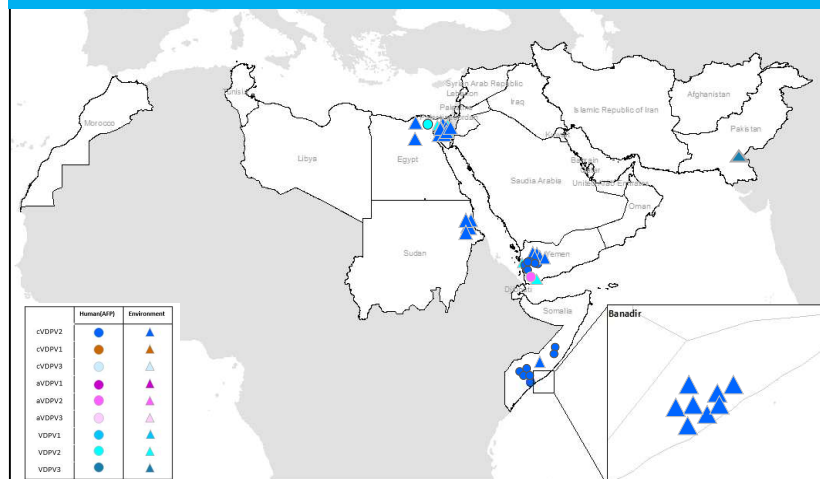
VDPVs isolations by Source and Country

EMR Polio Bulletin - Issue No. 1337 Week 20 (ending on 19/05/2024)

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	7	28-02-24			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

EMR Polio Bulletin - Issue No. 1336, Week 19 (ending on 12/05/2024)

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)