

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

- 4 cases of Wild Polio 1
 - 03 in Afghanistan
 - 01 in Pakistan

- 2 cases of cVDPV2
 - 02 in Somalia

- Zero case of cVDPV1



Sewage
water
sampling

2022

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

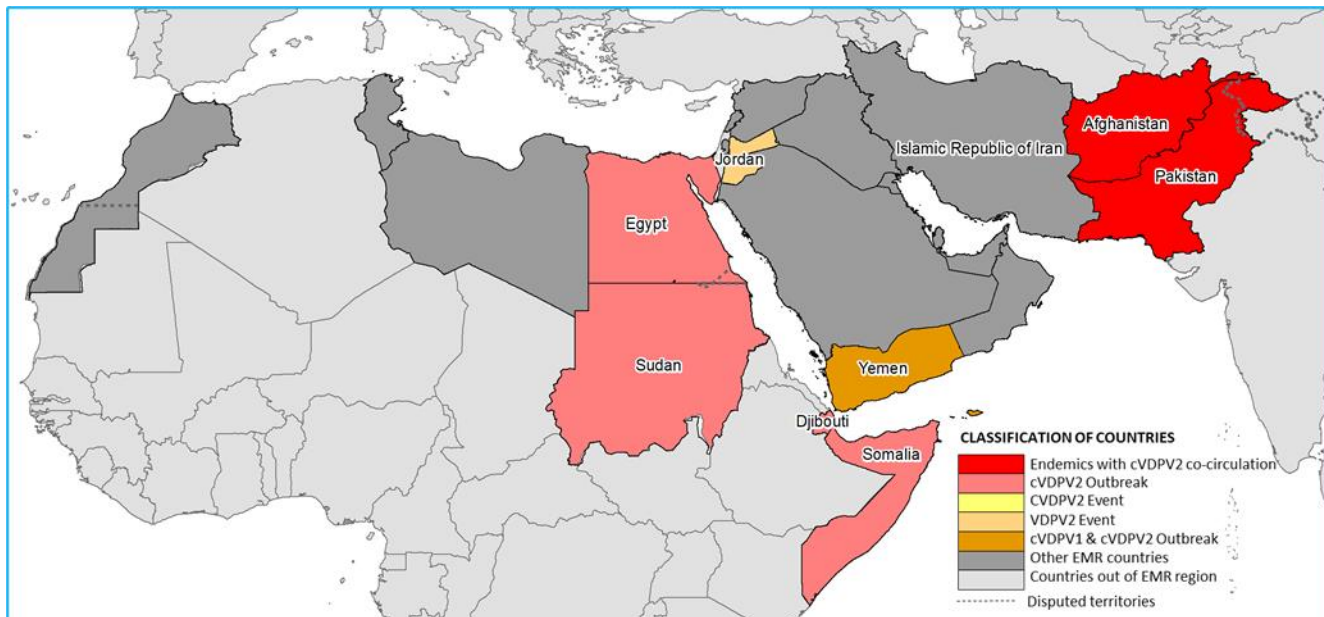
- 50 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 06 in Somalia
 - 01 in Sudan
 - 25 in Yemen

2023

- 31 samples Wild Polio 1
 - 23 in Afghanistan
 - 08 in Pakistan

- Zero samples of cVDPV2

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

Wild Poliovirus

- One new wild poliovirus case reported in 2023 from Afghanistan this week. The WPV1 case is from Nangarhar province, Nazyan district, with date of onset 8th May 2023. The WPV1 cases count in 2023 to date is 4 (3 from Afghanistan and 1 from Pakistan) while in 2022 the WPV1 cases count remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- Two new WPV1 positive environmental samples in 2023 from Pakistan were reported this week from Khyber Pakhtunkhwa province, Hangu district with both samples collected on 9th May 2023. The positive WPV1 ES count in 2023 is 31 up to date (23 in Afghanistan and 8 in Pakistan) while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

Circulating Vaccine derived poliovirus (VDPV)

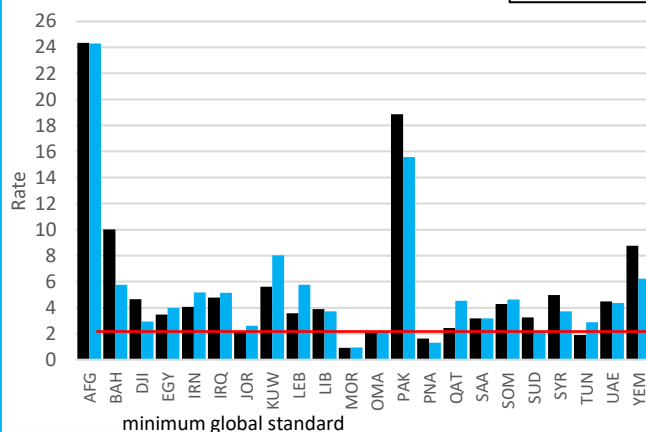
- No new cVDPV isolates from human or environmental samples reported this week.
- In 2023 the count of cVDPV2 cases remains to be 2 cases from Somalia while the count in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
- In 2022 to date, the positive cVDPV2 ES count remains to be 50 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 25 in Yemen) and no cVDPV ES reported in 2023 till date.

Events

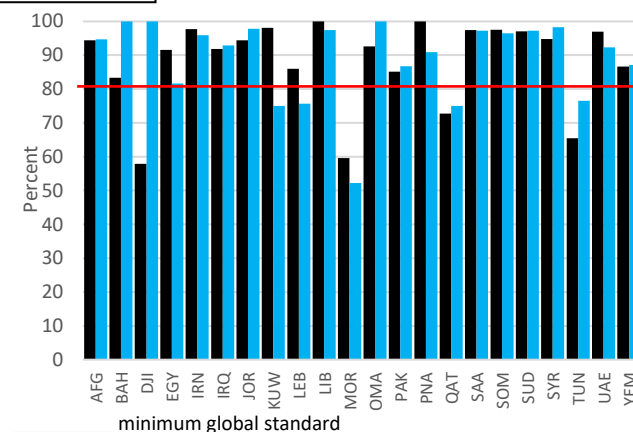
The following polio activity will be conducted this week as follows:

- The Technical Advisory Group Meeting for Afghanistan / Pakistan will be taking place in Doha, Qatar, from 1-4 June 2023.

Non polio AFP rate



Stool adequacy

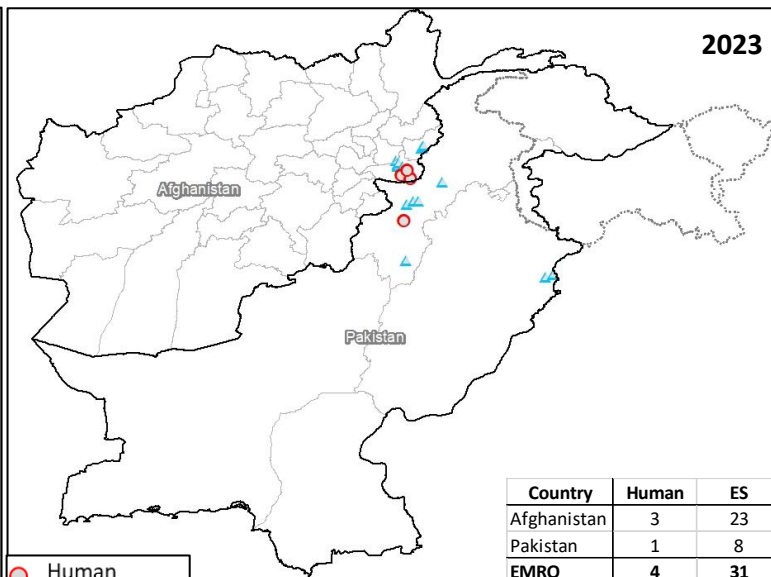
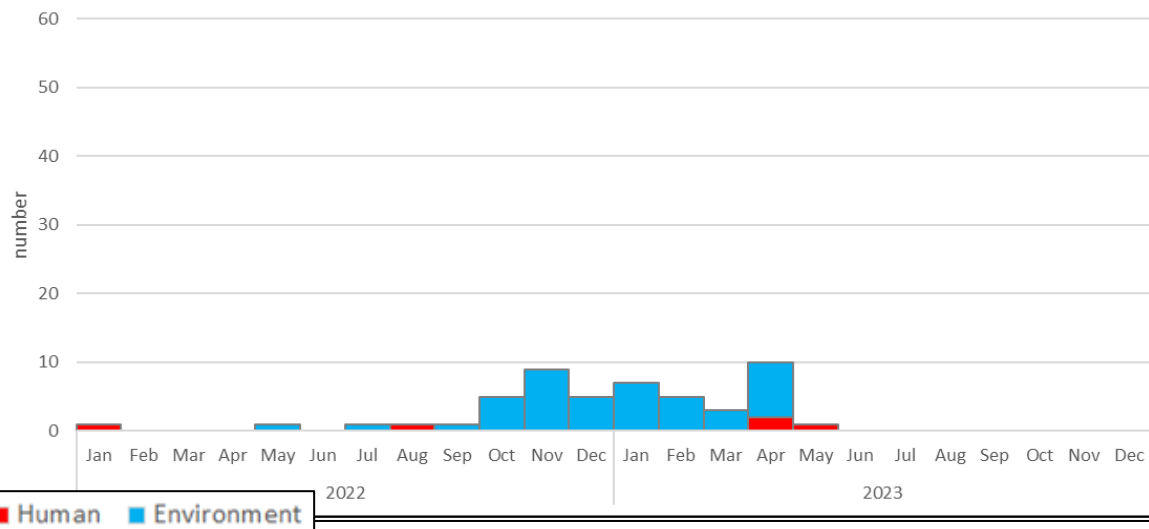


Wild Poliovirus type-1 (WPV1) Vaccine-derived Poliovirus (VDPV)

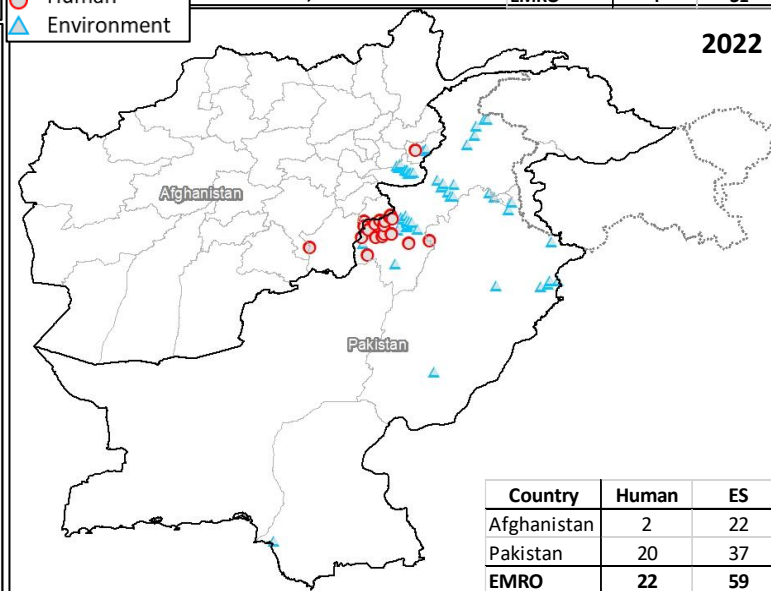
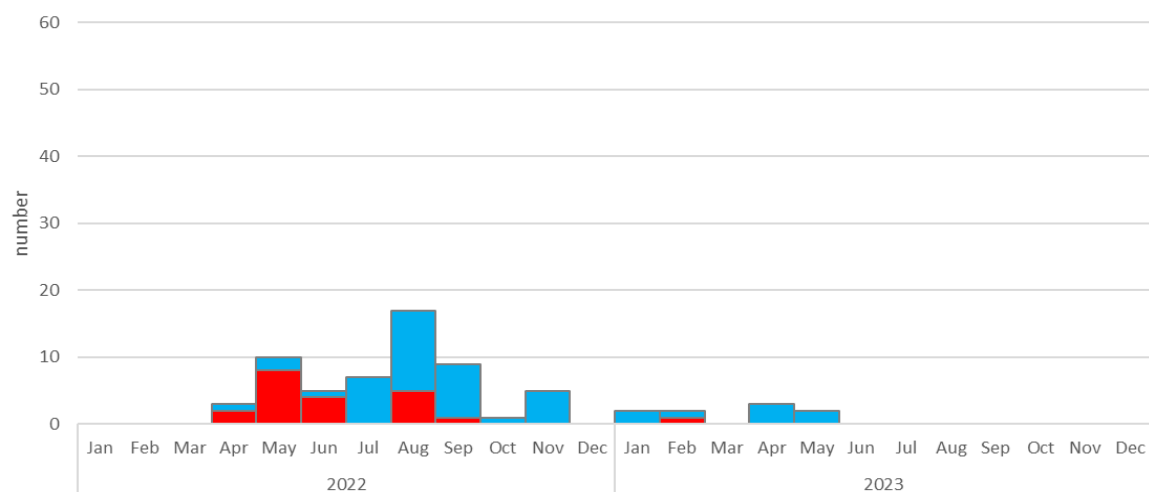
WPV1 Positive isolates from Afghanistan and Pakistan by source

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Afghanistan



Pakistan



Virus isolation by country, last 12 months (May 28, 2022 to May 28, 2023)

EMR Polio Bulletin - Issue No. 1286, Week 21 (ending on 28/05/2023)

Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	4	11		6	1	49	71
Wild	4	11					15
cVDPV2				4	1	49	54
aVDPV2				2			2
Environment	44	42	1	3	1	16	107
Wild	44	42					86
cVDPV2			1	3	1	16	21
aVDPV2							
Total	48	53	1	9	2	65	178

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. 1286, Week 21 (ending on 28/05/2023)

Country	Total year 2021	Total year 2022	28 May		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022							2023					
			2022	2023	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
Afghanistan	4	2	1	3	0	0	1	0	0	0	0		0	0	2	1	09-May-23
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	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	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			
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	0	0		
Morocco	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	1	20	10	1	4	0	5	1	0	0		0	1	0			20-Feb-23
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	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	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	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	0						
EMR	5	22	11	4	4	0	6	1	0	0	0	0	1	0	2	1	09-May-23

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

Investigation of AFP cases with paralysis onset in 2022 & 2023

EMR Polio Bulletin - Issue No. 1286, Week 21 (ending on 28/05/2023)

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	2221	3	0	1870	0	5	3	24.30	94.64	5368	2	0	5365	1	0	0	24.34	94.41	28-May-23
BAHRAIN	7	0	0	2	0	1	0	5.77	100.00	30	0	0	30	0	0	0	10.02	83.33	28-May-23
DIJIBOUTI	5	0	0	2	0	0	0	2.93	100.00	19	0	0	19	0	0	0	4.65	57.89	27-May-23
EGYPT	669	0	0	534	0	8	0	4.00	81.61	1394	0	0	1382	0	10	0	3.48	91.54	27-May-23
IRAN	440	0	0	405	0	0	0	5.17	95.91	824	0	0	824	0	0	0	4.06	97.69	27-May-23
IRAQ	367	0	0	308	0	15	0	5.15	92.92	835	0	0	835	0	0	0	4.78	91.86	27-May-23
JORDAN	46	0	0	42	0	0	0	2.61	97.83	89	0	0	89	0	0	0	2.14	94.38	18-May-23
KUWAIT	28	0	0	17	0	1	0	8.02	75.00	52	0	0	52	0	0	0	5.62	98.08	21-May-23
LEBANON	37	0	0	18	0	5	0	5.75	75.68	57	0	0	56	0	1	0	3.58	85.96	27-May-23
LIBYA	39	0	0	32	0	0	0	3.71	97.44	101	0	0	101	0	0	0	3.89	100.00	27-May-23
MOROCCO	46	0	0	18	0	15	1	0.94	52.17	94	0	0	84	0	10	0	0.92	59.57	8-May-23
OMAN	11	0	0	11	0	0	0	2.16	100.00	27	0	0	27	0	0	0	2.10	92.59	28-May-23
PAKISTAN	6171	1	0	5214	0	73	0	15.56	86.73	19028	20	1	19005	0	2	0	18.85	85.16	28-May-23
PALESTINE	11	0	0	6	0	1	0	1.30	90.91	33	0	0	32	0	0	0	1.64	100.00	28-May-23
QATAR	8	0	0	3	0	0	0	4.54	75.00	11	0	0	11	0	0	0	2.44	72.73	28-May-23
SAUDI ARABIA	108	0	0	51	0	3	0	3.19	97.22	274	0	0	274	0	0	0	3.18	97.45	21-May-23
SOMALIA	168	0	0	144	2	1	1	4.62	96.43	356	0	0	349	6	0	0	4.28	97.47	28-May-23
SUDAN	179	0	0	154	0	3	0	2.16	97.21	650	0	0	649	1	0	0	3.25	97.08	13-Apr-23
SYRIA	117	0	0	93	0	0	0	3.72	98.29	382	0	0	382	0	0	0	4.96	94.76	27-May-23
TUNISIA	34	0	0	33	0	0	0	2.88	76.47	55	0	0	55	0	0	0	1.91	65.45	26-May-23
U.A.E.	26	0	0	7	0	7	0	4.35	92.31	66	0	0	66	0	0	0	4.47	96.97	23-May-23
YEMEN	403	0	0	263	0	9	3	6.23	87.10	1377	0	1	1214	162	0	0	8.76	86.64	24-May-23
EMR POL	11141	4	0	9227	2	147	8	9.42	89.00	31122	22	2	30901	170	23	0	10.77	88.24	

* 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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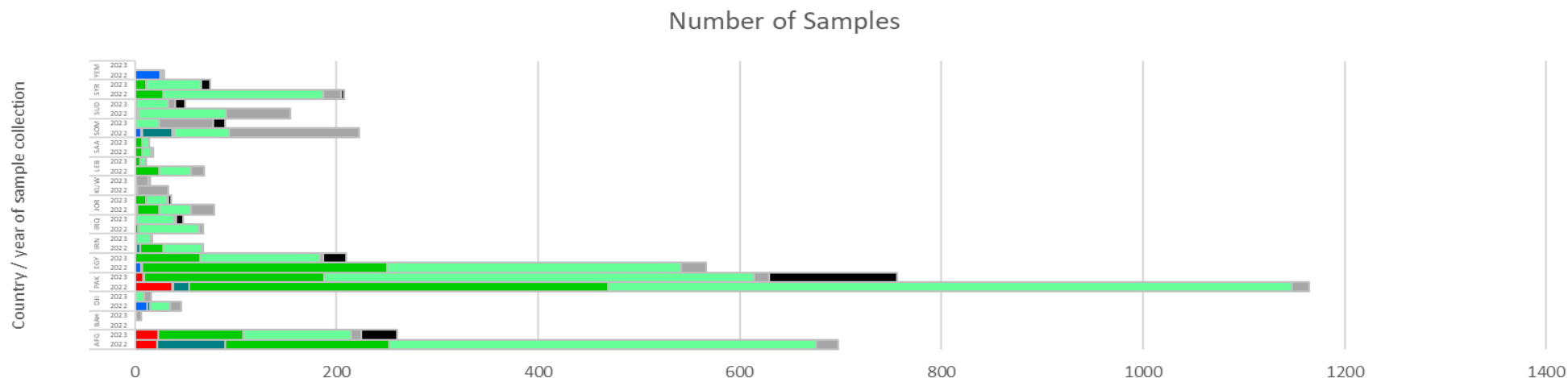
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases							Poliovirus intratypic differentiation results												Indicators				Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	2198	113	7	185	1584	234	4	3	73					93			2	2		8%	88%	100%	99%	28-May-23	
Bahrain	NPL Oman / CDC	6				3	3														0%	100%		0%	23-May-23	
Djibouti	NPL Kenya / CDC	5				2	1	2													0%	100%		100%	27-May-23	
Egypt	RRL Egypt	621	5		41	512	60	4		3					4						6%	96%	100%	100%	25-May-23	
Iran	NPL Iran / CDC	468	3		3	422	40	1		2					1						1%	100%	100%	99%	27-May-23	
Iraq	NPL Iraq, RRL Egypt	368	3		23	305	30	7		2					2						7%	100%	100%	99%	25-May-23	
Jordan	NPL Jordan, RRL Egypt	46			9	34	3														20%	95%		100%	24-May-23	
Kuwait	RRL Kuwait / RIVM	28			2	21	4	1													9%	100%		100%	28-May-23	
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	25				25															0%	100%			11-May-23	
Libya	RRL Tunisia / RIVM	33			1	32															3%	94%		100%	22-May-23	
Morocco	NPL Morocco, RRL Tunisia	50			2	41	5	2													3%	98%		91%	26-May-23	
Oman	NPL Oman / CDC	11			1	10															16%	100%		100%	23-May-23	
Pakistan	RRL Pakistan	6065	163	9	515	4719	514	143	1	102					129					2	8%	86%	100%	97%	28-May-23	
Palestine & UNRWA		11				10		1													0%	44%		100%	28-May-23	
Qatar	NPL Oman / CDC	8				7	1														0%	100%		100%	23-May-23	
Saudi Arabia	NPL Saudi Arabia / CDC	103	1		4	96		2		1											4%	100%	100%	99%	4-May-23	
Somalia	NPL Kenya / CDC	168	5		24	118	11	10		1			2	2					1		16%	3%		95%	28-May-23	
Sudan	NPL Sudan / RRL Egypt	187	5		28	137		17							1						16%	99%	100%	100%	14-Apr-23	
Syria	NPL Syria / RRL Egypt	102	1		2	89		10													3%	100%			11-May-23	
Tunisia	RRL Tunisia	76	2		2	69	3						1		1						2%	97%	1	99%	22-May-23	
U.A.E	NPL Oman / CDC	24			1	16	7														6%	100%		12%	23-May-23	
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	261	10		40	210		1		6			1		8						14%	11%	100%	4%	24-May-23	
Total EMR 2023		10864	311	16	883	8462	916	205	4	190			4	2		239			2	2	3	8%	86%	100%	95%	
Total EMR 2022		30459	1065	119	4831	24430		10	22 *	556	1		38	169 **		723		6	8	2	1	13%	93%	89%	92%	

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

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

Environmental Surveillance Isolation by Classification

EMR Polio Bulletin - Issue No. 1286, Week 21 (ending on 28/05/2023)

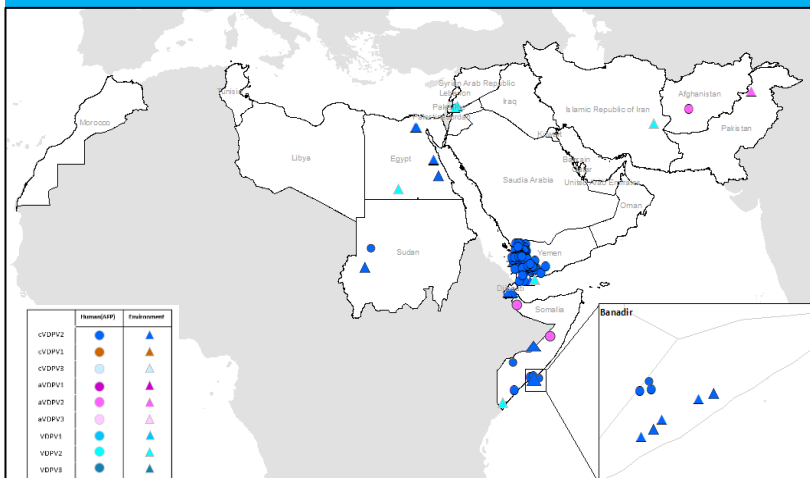


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
🚩 Wild	22	23					37	8																						
🇧🇩 cVDPV2					12				6														6		1				25	
🇧🇩 Wild+cVDPV2																														
🇧🇩 Wild+aVDPV2																														
🇧🇩 Wild+aVDPV3																														
🇲🇦 aVDPV1																														
🇲🇦 aVDPV2							1																							
🇲🇦 aVDPV3																														
🇲🇦 VDPV1																														
🇲🇦 VDPV2									1	1	1				2								1						2	
🇲🇦 VDPV3							1																							
🇲🇦 SL2	68				3		16				4												30							
🇲🇦 SL1/3	162	84					415	179	243	65	23	1	3	1	22	11			24	5	7	7	2		2	1	28	11	1	
🇲🇦 Entero	424	108		1	20	9	679	426	292	119	39	14	61	38	32	21	2	1	32	5	9	7	55	24	88	32	159	55		
🇲🇦 Negative	22	9		5	11	7	17	15	25	3	1		4	2	23	1	31	12	13	1	2		128	54	63	7	18			
🇲🇦 Pending		36						127		23		2		7		3		2						12		10	3	9	1	

VDPVs isolations by Source and Country

EMR Polio Bulletin - Issue No. 1286 Week 21 (ending on 28/05/2023)

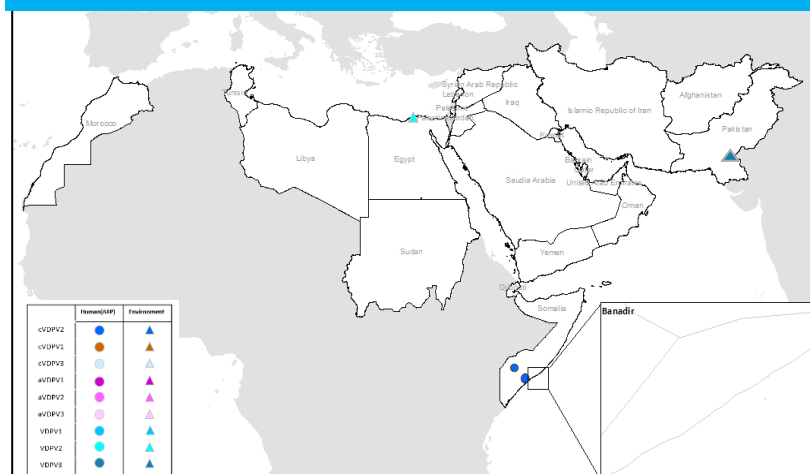
VDPV Isolates, EMR countries, 2022



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			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	2	02-03-23	3	1	11		5		31-08-22	19	5	26	1	6		22-12-22		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
	Yemen					66	162	14-12-22				23	40		19-12-22			13	25			28-11-22							
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		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						1	27-02-23											67	1		12-01-22							
	Iran																			1		04-02-22							
	Jordan																			2		25-05-22							
	Somalia					1		01-09-22																					
	Yemen																		1			24-04-22							
VDPV3	Pakistan																			1		14-02-23							

VDPV Isolates, EMR countries, 2023



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)