

Highlights



Children
Paralyzed
by polio

2022

- 22 cases of Wild Polio 1
 - 02 in Afghanistan
 - 20 in Pakistan
- 165 cases of cVDPV2
 - 05 in Somalia
 - 159 in Yemen
 - 01 in Sudan
- zero cVDPV1 cases

2023

- Zero case of Wild Polio 1
- Zero case of cVDPV2
- Zero case of cVDPV1



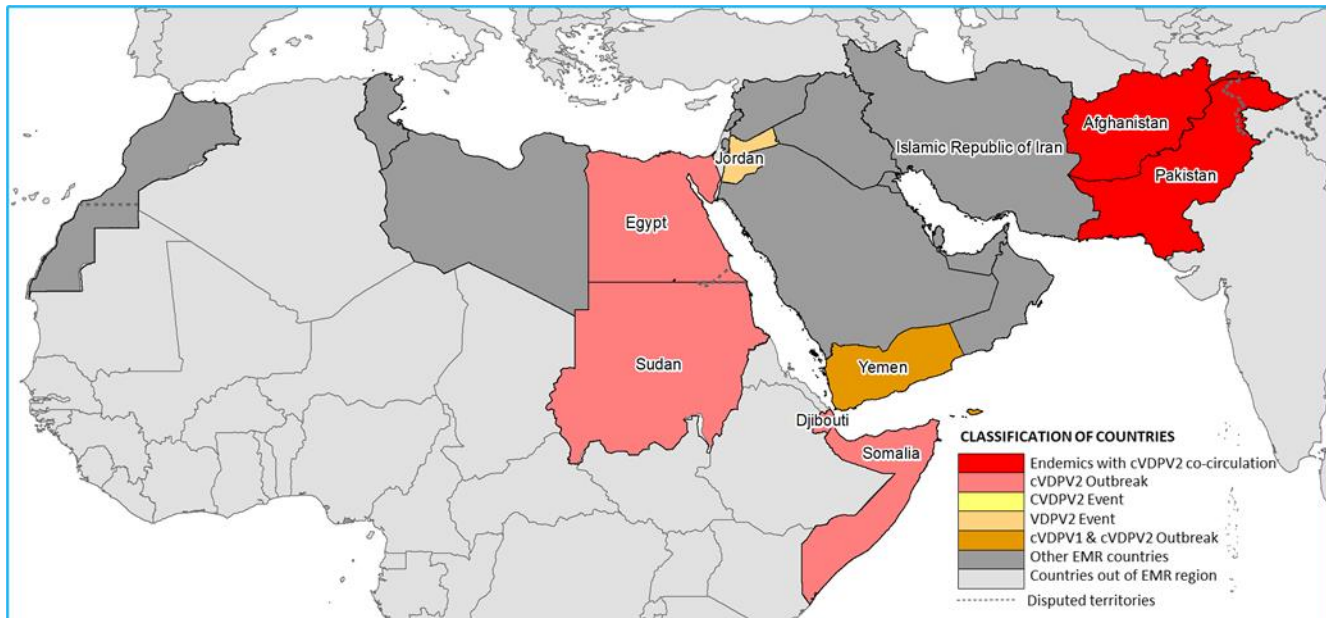
Sewage
water
sampling

2022

- 59 samples Wild Polio 1
 - 22 in Afghanistan
 - 37 in Pakistan
- 32 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 03 in Somalia
 - 01 in Sudan
 - 10 in Yemen

2023

- 4 samples Wild Polio 1
 - 03 in Afghanistan
 - 01 in Pakistan
- Zero samples of cVDPV2



Highlights of the week

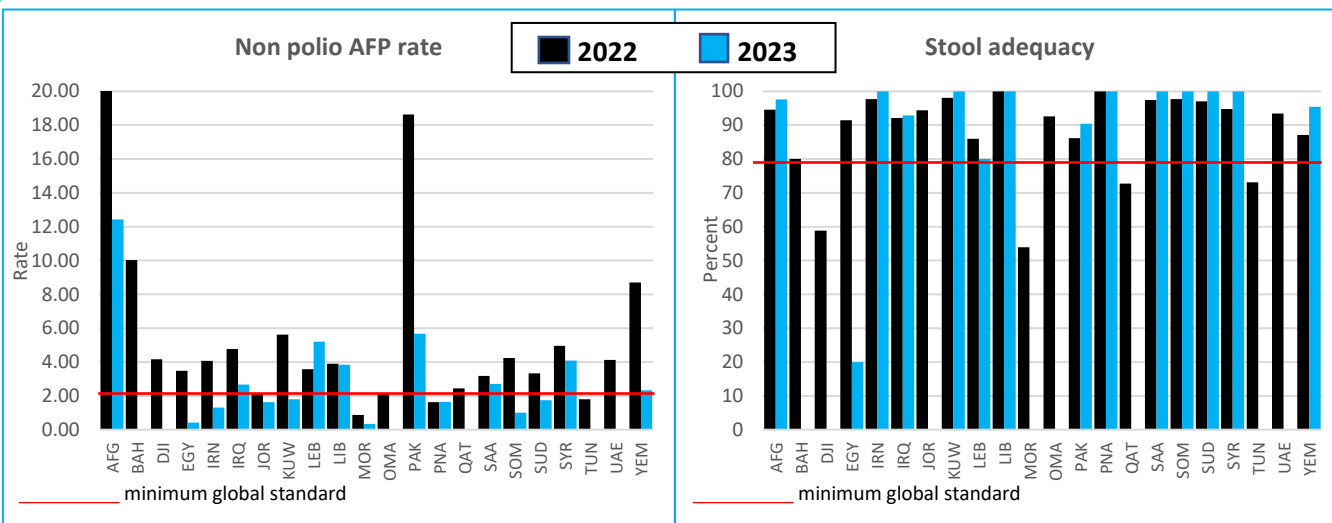
Wild Poliovirus

- No new Wild Poliovirus cases reported this week. The cases count in 2022 remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- Environmental Surveillance:
Afghanistan: Three WPV1 positive environmental samples were reported this week; two from Jalalabad and Behsud districts of Nangarhar province and one from Asadabad district of Kunar province. All samples were collected on 1st January 2023.
Pakistan: One WPV1 positive environmental sample was reported this week from Lahore district of Punjab province collected on 2nd January 2023.
- In 2023 to date; the positive WPV1 environmental samples count in 2023 is 4 (3 in Afghanistan and 1 in Pakistan) while in 2022 the count remains to be 57 (20 in Afghanistan and 37 in Pakistan).

Circulating Vaccine derived poliovirus (cVDPV)

- No new cVDPV2 isolates from human or environmental samples reported this week. The count of cVDPV2 cases in 2022 remains 165 from Sudan (1); Somalia (5); and Yemen (159), while the positive environmental samples in 2022 are 32 from Sudan (1); Somalia (3); Egypt (6); Yemen (10); and Djibouti (12).

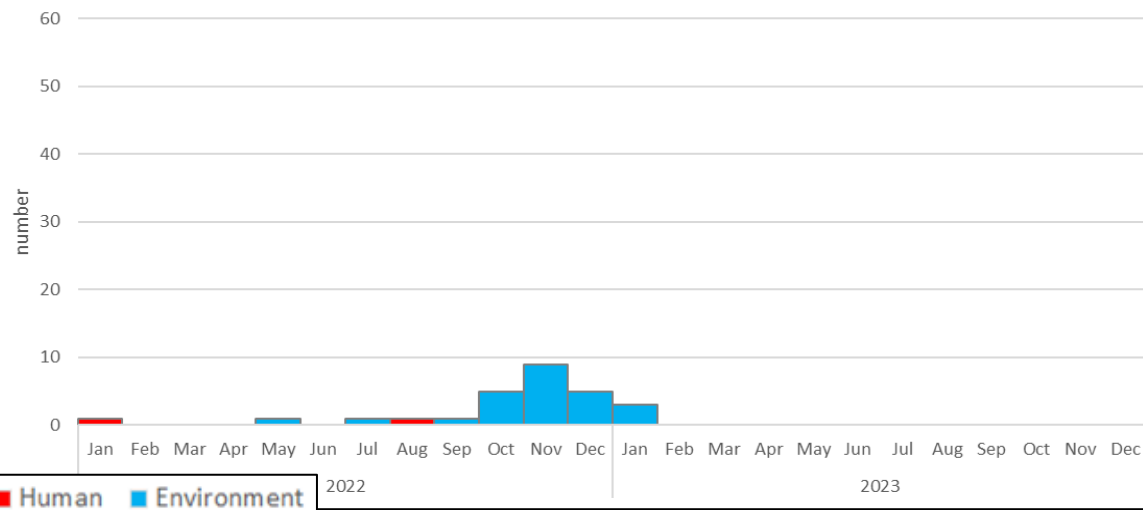
Wild Poliovirus type-1 (WPV1) Vaccine-derived Poliovirus (VDPV)



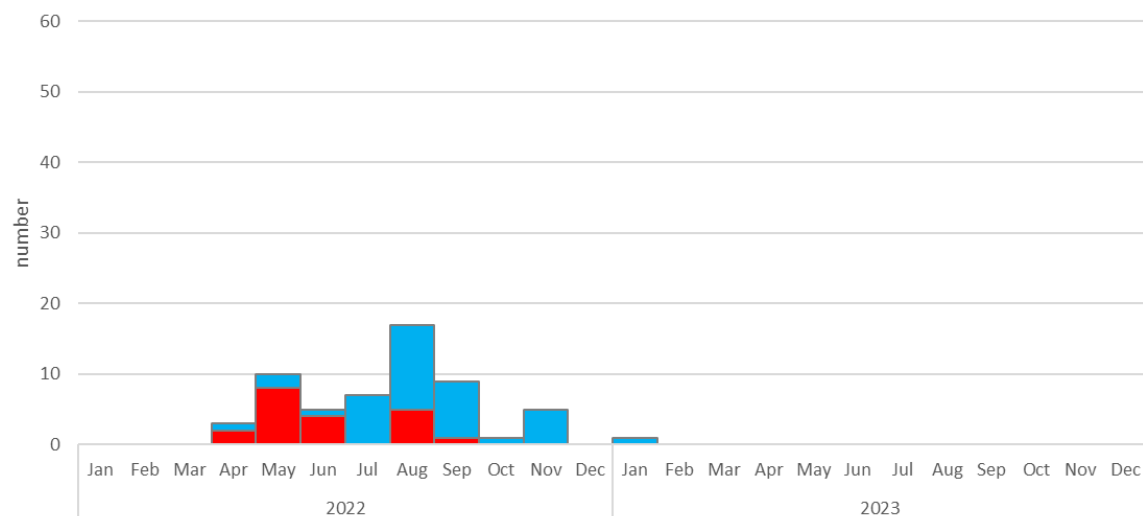
WPV1 Positive isolates from Afghanistan and Pakistan by source

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Afghanistan



Pakistan

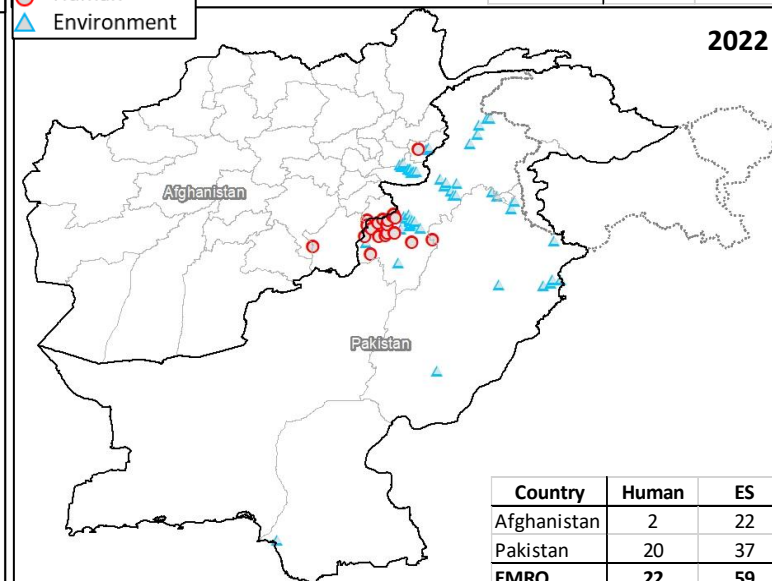


2023






○ Human
△ Environment

2022



Virus isolation by country, last 12 months (Jan. 22, 2022 to Jan. 22, 2023)

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Source / Virus type 	AFG	DJI	PAK	EGY	IRN	JOR	SOM	SUD	YEM	Total
 Human (AFP only)	1		20				5	1	132	159
Wild	1		20							21
cVDPV2							4	1	132	137
aVDPV2										
VDPV2							1			1
 Environment	25	12	39	6	1	2	5	1	12	103
Wild	25		38							63
cVDPV2		12		6			4	1	10	33
aVDPV2			1							1
VDPV2					1	2	1		2	6
Total	26	12	59	6	1	2	10	2	144	262

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	22 Jan.		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022												
			2022	2023	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
Afghanistan	4	2	1	0	0	0	0	0	0	0	1	0	0	0			29-Aug-22
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					
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	0		
Kuwait	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				
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	1	20	0	0	0	0	2	8	4	0	5	1	0	0			15-Sep-22
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	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				
Sudan	0	0	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				
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		
Yemen	0	0	0	0	0	0	0	0	0	0	0	0					
EMR	5	22	1	0	0	0	2	8	4	0	6	1	0	0	0	0	15-Sep-22

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

Investigation of AFP cases with paralysis onset in 2021 & 2022

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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	165	0	0	4	0	0	0	12.43	97.58	5360	2	0	5290	1	6	0	24.29	94.53	22-Jan-23
BAHRAIN	0	0	0	0	0	0	0			30	0	0	20	0	4	0	10.02	80.00	15-Jan-23
DJIBOUTI	0	0	0	0	0	0	0			17	0	0	14	0	3	1	4.16	58.82	22-Jan-23
EGYPT	10	0	0	0	0	0	0	0.41	20.00	1394	0	0	1288	0	23	1	3.48	91.46	19-Jan-23
IRAN	16	0	0	1	0	0	0	1.31	100.00	824	0	0	820	0	0	0	4.06	97.69	21-Jan-23
IRAQ	28	0	0	4	0	0	0	2.67	92.86	833	0	0	823	0	3	0	4.77	92.08	20-Jan-23
JORDAN	4	0	0	0	0	0	0	1.64	0.00	89	0	0	85	0	0	0	2.14	94.38	22-Jan-23
KUWAIT	1	0	0	1	0	0	0	1.79	100.00	52	0	0	49	0	0	0	5.62	98.08	22-Jan-23
LEBANON	5	0	0	0	0	0	0	5.21	80.00	57	0	0	29	0	6	0	3.58	85.96	21-Jan-23
LIBYA	6	0	0	0	0	0	0	3.84	100.00	101	0	0	87	0	0	0	3.89	100.00	21-Jan-23
MOROCCO	2	0	0	0	0	0	0	0.34	0.00	89	0	0	46	0	29	1	0.88	53.93	06-Jan-23
OMAN	0	0	0	0	0	0	0			27	0	0	27	0	0	0	2.10	92.59	22-Jan-23
PAKISTAN	344	0	0	20	0	0	0	5.67	90.41	18814	20	1	18123	0	176	4	18.64	86.12	22-Jan-23
PALESTINE	2	0	0	0	0	0	0	1.65	100.00	33	0	0	22	0	0	0	1.64	100.00	22-Jan-23
QATAR	0	0	0	0	0	0	0			11	0	0	8	0	1	0	2.44	72.73	21-Jan-23
SAUDI ARABIA	14	0	0	0	0	0	0	2.71	100.00	274	0	0	228	0	0	0	3.18	97.45	22-Jan-23
SOMALIA	5	0	0	0	0	0	0	1.00	100.00	353	0	0	332	6	4	4	4.25	97.73	22-Jan-23
SUDAN	21	0	0	0	0	0	0	1.74	100.00	650	0	0	646	1	1	0	3.30	97.08	19-Jan-23
SYRIA	19	0	0	0	0	0	0	4.10	100.00	382	0	0	355	0	0	0	4.96	94.76	21-Jan-23
TUNISIA	0	0	0	0	0	0	0			52	0	0	43	0	0	0	1.81	73.08	20-Jan-23
U.A.E.	0	0	0	0	0	0	0			61	0	0	0	0	43	1	4.14	93.44	20-Jan-23
YEMEN	22	0	0	0	0	0	0	2.33	95.45	1369	0	1	1030	159	10	1	8.71	87.14	21-Jan-23
EMR POL	664	0	0	30	0	0	0	3.97	91.72	30872	22	2	29365	167	309	13	11.11	88.89	

* 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 2022

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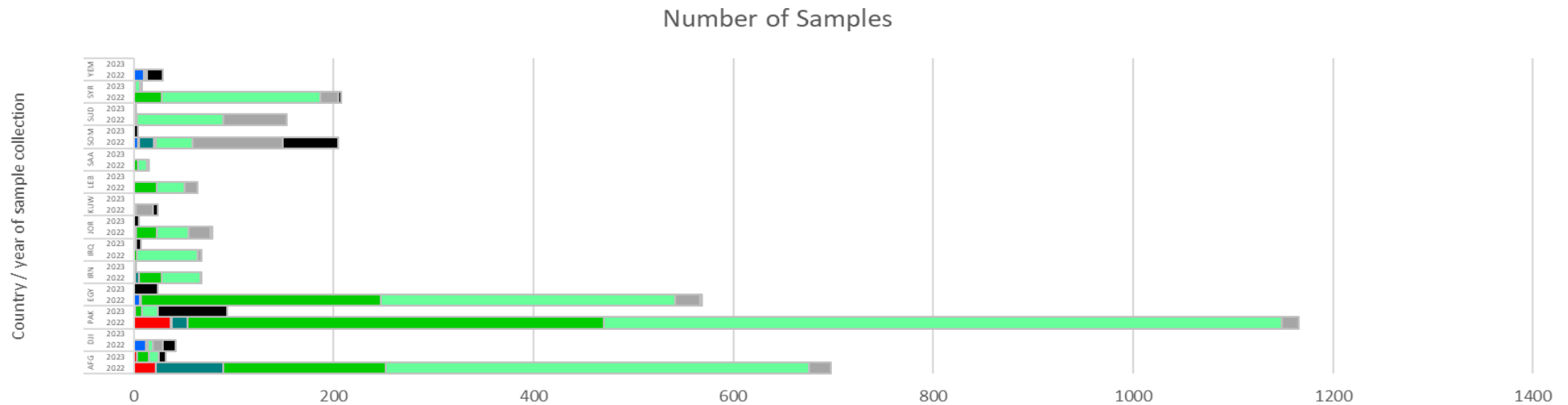
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators				Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	140	4		2	2	98														4	10%	100%		100%	22-Jan-23
Bahrain	NPL Oman / CDC																									18-Jan-23
Djibouti	NPL Kenya / CDC																									22-Jan-23
Egypt	RRL Egypt	44					42	2																		19-Jan-23
Iran	NPL Iran / CDC	37				14	23															0%	100%		100%	21-Jan-23
Iraq	NPL Iraq, RRL Egypt	28				4	24															0%	100%		100%	19-Jan-23
Jordan	NPL Jordan, RRL Egypt	4				1	3															0%			100%	22-Jan-23
Kuwait	RRL Kuwait / RIVM	2				1	1															0%	100%		100%	22-Jan-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt																									22-Jan-23
Libya	RRL Tunisia / RIVM																									19-Nov-22
Morocco	NPL Morocco, RRL Tunisia	4					3	1																		13-Jan-23
Oman	NPL Oman / CDC																									18-Jan-23
Pakistan	RRL Pakistan	300			1	19	267	2														9%	100%		100%	22-Jan-23
Palestine & UNRWA		2				2																0%	50%		100%	22-Jan-23
Qatar	NPL Oman / CDC																									18-Jan-23
Saudi Arabia	NPL Saudi Arabia / CDC	8					8																			16-Jan-23
Somalia	NPL Kenya / CDC	5					5																			22-Jan-23
Sudan	NPL Sudan / RRL Egypt	20					20															0%				21-Jan-23
Syria	NPL Syria / RRL Egypt	18				1	17															0%	100%			22-Jan-23
Tunisia	RRL Tunisia																									19-Nov-22
U.A.E	NPL Oman / CDC																									18-Jan-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt																									21-Jan-23
Total EMR 2023		612	4		3	44	511	5													4	7%	98%		100%	
Total EMR 2022		30168	1039	117	4775	23884	267	81	22	549	1		28	166		708		6	8	2	4	13%	93%	89%	93%	

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

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

Environmental Surveillance Isolation by Classification

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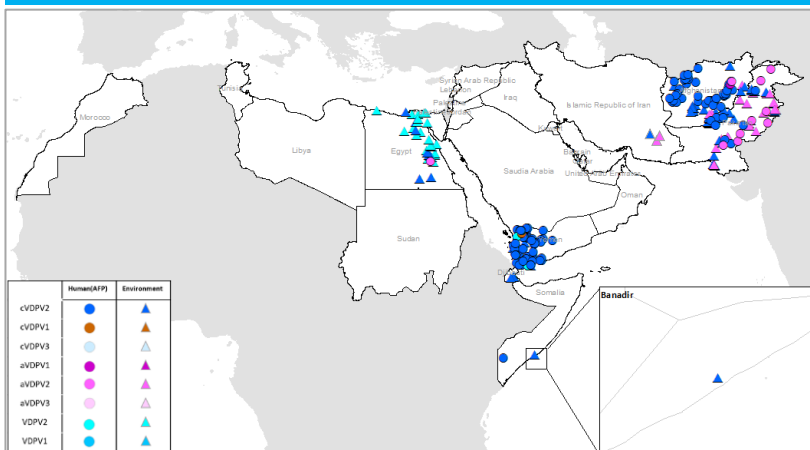


	AFG		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Wild	22	3			37	1																						
cVDPV2			12				6														4		1				10	
Wild+cVDPV2																												
Wild+aVDPV2																												
Wild+aVDPV3																												
aVDPV1																												
aVDPV2					1																							
aVDPV3																												
VDPV1																												
VDPV2							1		1				2								1						2	
SL2	68				16				4												15						1	
SL1/3	162	12	2		416	7	240		23		3		21				23		4		2		2		28	1		
Entero	424	10	5		679	16	295		39		61	2	32		2		28		9		37		87		159	5		
Negative	22		10		17		25		1		4		22		17		13		2		90		63		18			
Pending		7	13			70	2	24		2		5	2	5	5						56	4		2	3	2	16	

VDPVs isolations by Source and Country

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VDPV Isolates, EMR countries, 2021



VDPVs isolated from 2017-2022

VDPV Isolate type	EMR Country	Sources																											
		AFP cases(Human)						Contacts(Human)						Environment						Other Sources (Healthy Children)									
		2017	2018	2019	2020	2021	2022	Most recent	2017	2018	2019	2020	2021	2022	Most recent	2017	2018	2019	2020	2021	2022	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		23-08-22	3	1	11		5	31-08-22	2	19	5	26	1	3		19-05-22			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
	Syria	74						21-09-17	63					12-09-17									4						20-08-17
Yemen					66	159	24-10-22					23	38	05-08-22					13	10		28-05-22							
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	5		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																		67	1		12-01-22							
	Iran																			1		04-02-22							
	Jordan																			3		25-05-22							
	Pakistan																			1		15-02-22							
	Somalia						1	01-09-22																					
	Yemen																			1		24-04-22							

Note: No VDPV isolate in 2023 to date

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)