

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

- 7 cases of Wild Polio 1
 - 05 in Afghanistan
 - 02 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

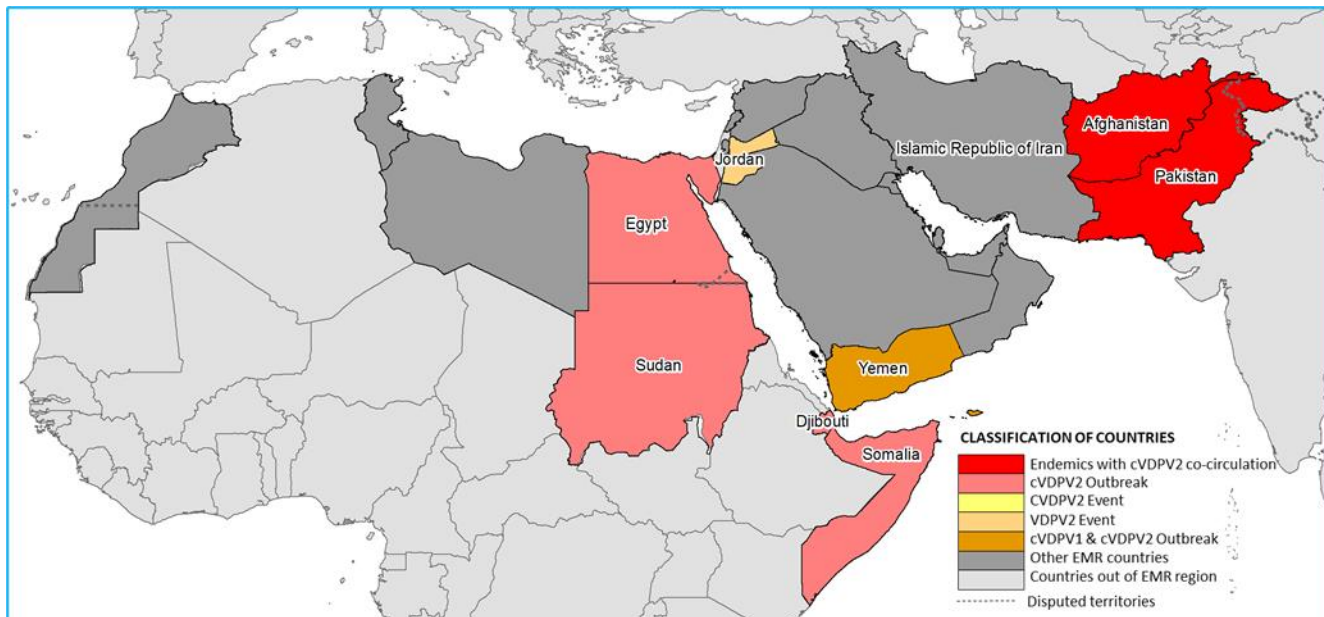
- 52 samples cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 06 in Somalia
 - 01 in Sudan
 - 27 in Yemen

2023

- 46 samples Wild Polio 1
 - 32 in Afghanistan
 - 14 in Pakistan

- 6 samples of cVDPV2
 - 03 in Somalia
 - 03 in Yemen

Classification of EMR countries by type of poliovirus circulation



Highlights of the week

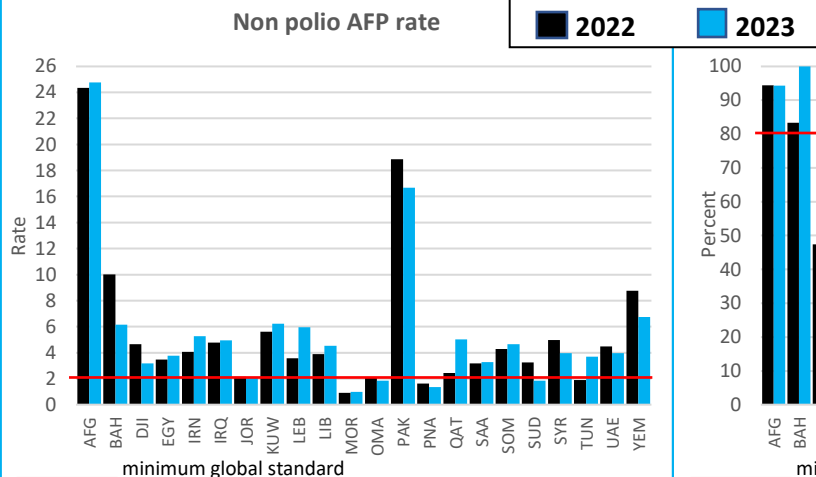
Wild Poliovirus

- A new WPV1 case was reported this week from Pakistan. The case was reported from Bannu district, Khyber Pakhtunkhwa province, with date of onset 11th July 2023. The WPV1 cases count in 2023 to date is 7 (5 from Afghanistan and 2 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 reported this week from Pakistan. The new positive samples were reported from Peshawar district of Khyber Pakhtunkhwa province and from Rawalpindi district, Punjab province, both with collection date of 17th July 2023. The positive WPV1 ES count in 2023 to date is 46 (32 in Afghanistan and 14 in Pakistan), while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

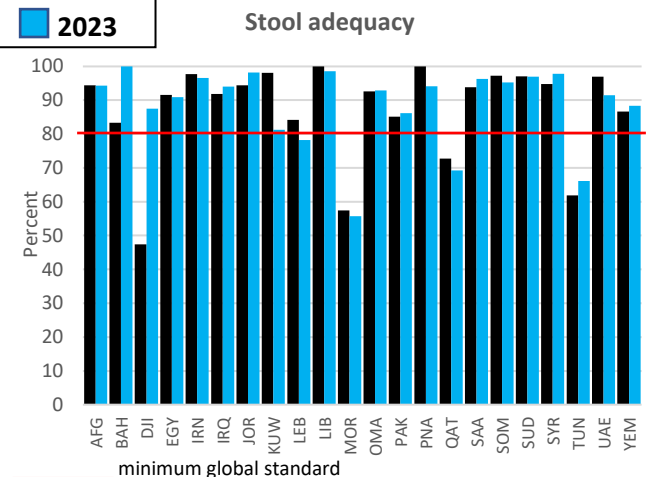
Vaccine derived poliovirus (VDPV)

- No new cVDPV2 isolates reported this week. In 2023 the count of cVDPV2 cases remains 2 (both from Somalia) and in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen). While the positive cVDPV2 ES count in 2023 to date is 6 (3 each from Somalia and Yemen) and in 2022, remains 52 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 27 in Yemen).
- One new VDPV2 case reported from Yemen this week from Alshamayateen district, Taiz province, with date of onset on 9th May 2023.
- One new VDPV2 positive environmental sample reported from Egypt this week from Dahya district, North Sinai province, with collection date 12th July 2023.

Non polio AFP rate



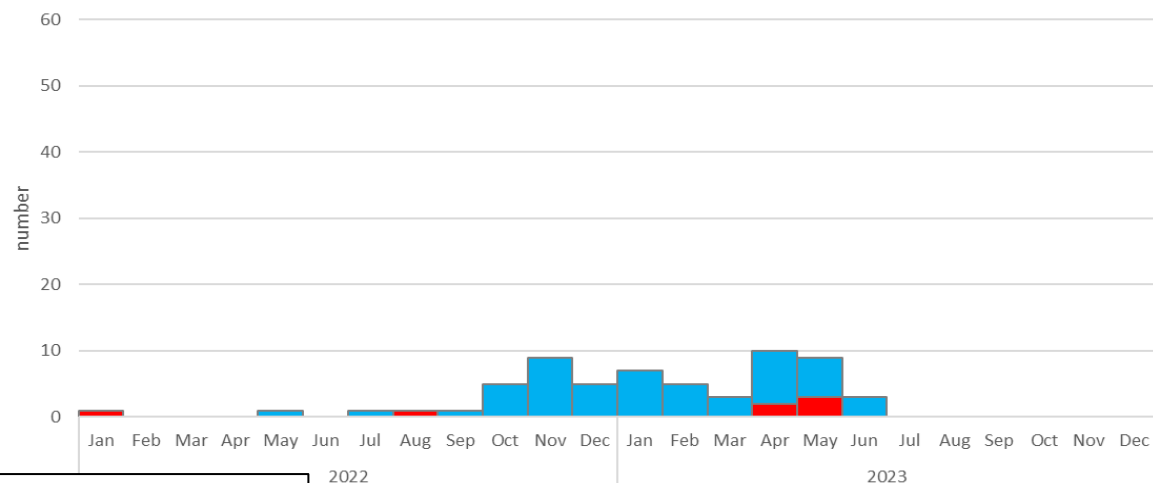
Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

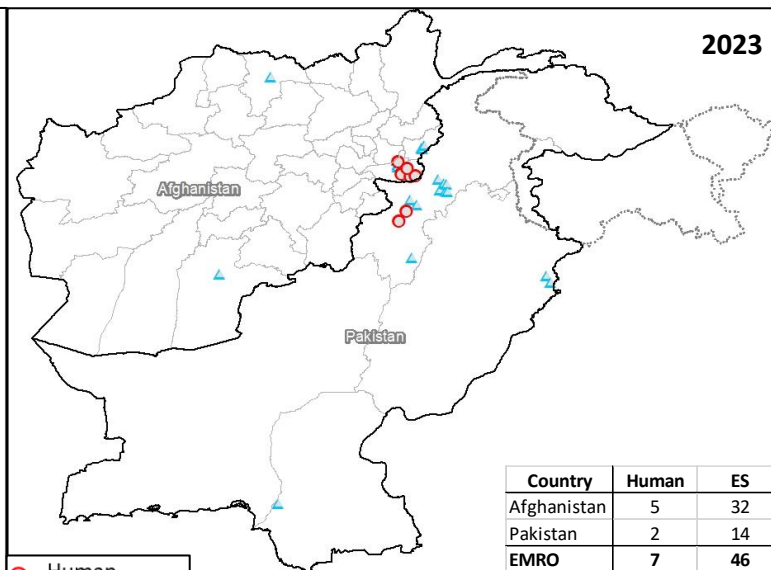
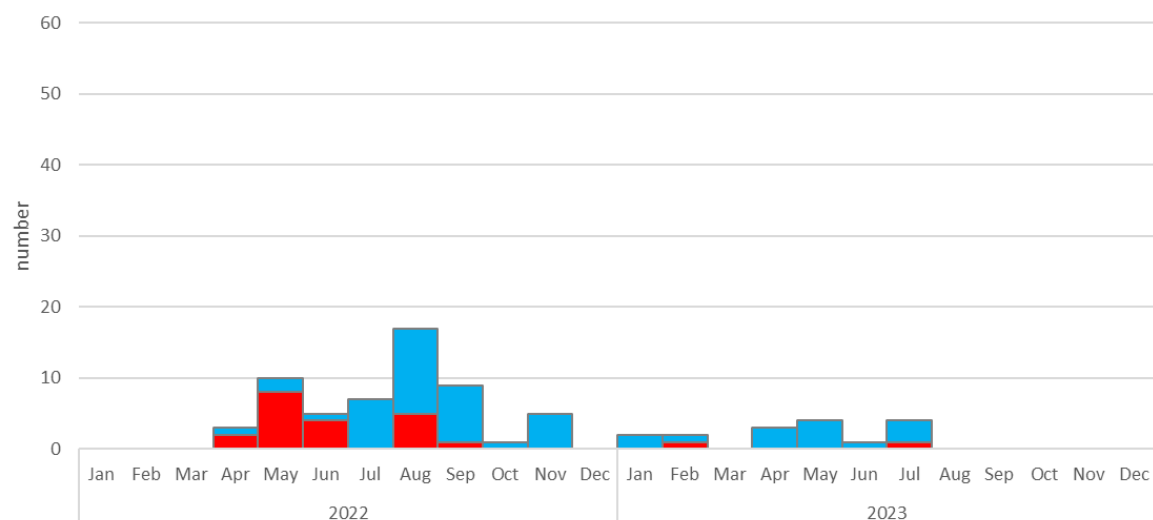
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Afghanistan



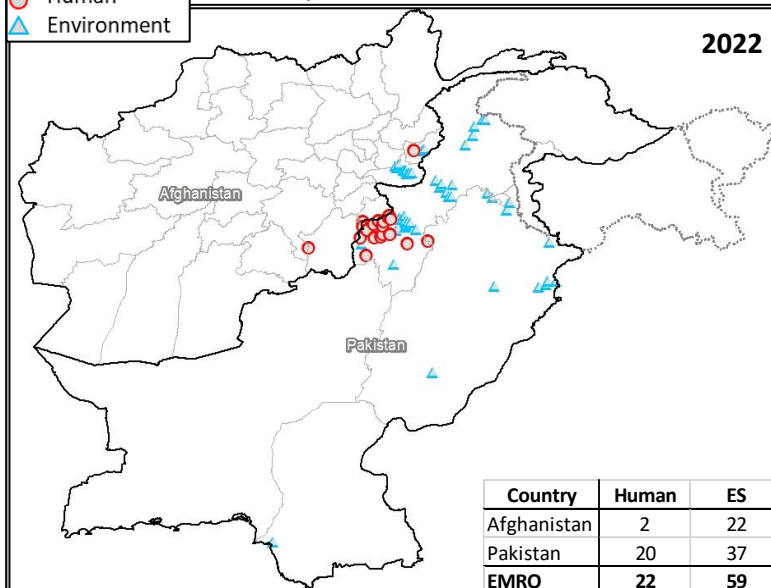
■ Human ■ Environment

Pakistan



2023

Country	Human	ES
Afghanistan	5	32
Pakistan	2	14
EMRO	7	46



2022

Country	Human	ES
Afghanistan	2	22
Pakistan	20	37
EMRO	22	59

Virus isolation by country, last 12 months (August 6, 2022, to August 6, 2023)

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Source / Virus type	AFG	PAK	EGY	SOM	SUD	YEM	Total
Human (AFP only)	6	7		5	1	18	37
Wild	6	7					13
cVDPV2				3	1	17	21
aVDPV2				2		1	3
VDPV2							
Environment	52	37	2	6	1	15	113
Wild	52	37					89
cVDPV2			1	6	1	14	22
aVDPV2							
VDPV2			1			1	2
Total	58	44	2	11	2	33	150

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. 1296, Week 31 (ending on 06/08/2023)

Country	Total year 2021	Total year 2022	6 August		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2022				2023								
			2022	2023	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Afghanistan	4	2	1	5	0	0	0	0		0	0	2	3	0			18-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						
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				
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			
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	0		
Pakistan	1	20	15	2	1	0	0		0	1	0	0	0		1		11-Jul-23
Palestine ****	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							
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		0		0		
Yemen	0	0	0	0	0	0	0	0	0	0	0						
EMR	5	22	16	7	1	0	0	0	0	1	0	2	3	0	1	0	11-Jul-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. 1296, Week 31 (ending on 06/08/2023)

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	3332	5	0	3056	0	15	2	24.75	94.27	5368	2	0	5365	1	0	0	24.34	94.41	6-Aug-23
BAHRAIN	11	0	0	7	0	0	0	6.16	100.00	30	0	0	30	0	0	0	10.02	83.33	6-Aug-23
DJIBOUTI	8	0	0	5	0	0	0	3.19	87.50	19	0	0	19	0	0	0	4.65	47.37	5-Aug-23
EGYPT	930	0	0	769	0	17	0	3.78	90.86	1394	0	0	1394	0	0	0	3.48	91.54	4-Aug-23
IRAN	665	0	0	611	0	0	0	5.28	96.54	824	0	0	824	0	0	0	4.06	97.69	5-Aug-23
IRAQ	519	0	0	471	0	13	0	4.94	94.03	835	0	0	835	0	0	0	4.78	91.86	3-Aug-23
JORDAN	55	0	0	52	0	0	0	2.12	98.18	89	0	0	89	0	0	0	2.14	94.38	16-Jul-23
KUWAIT	32	0	0	32	0	0	0	6.23	81.25	52	0	0	52	0	0	0	5.62	98.08	30-Jul-23
LEBANON	55	0	0	27	0	6	2	5.97	78.18	57	0	0	57	0	0	0	3.58	84.21	30-Jul-23
LIBYA	70	0	0	53	0	1	0	4.52	98.57	101	0	0	101	0	0	0	3.89	100.00	5-Aug-23
MOROCCO	70	0	0	29	0	29	3	0.99	55.71	94	0	0	89	0	5	0	0.92	57.45	4-Aug-23
OMAN	14	0	0	14	0	0	0	1.86	92.86	27	0	0	27	0	0	0	2.10	92.59	6-Aug-23
PAKISTAN	9739	2	0	8882	0	128	0	16.68	86.19	19032	20	1	19011	0	0	0	18.86	85.14	6-Aug-23
PALESTINE	17	0	0	11	0	1	1	1.37	94.12	33	0	0	32	1	0	0	1.64	100.00	6-Aug-23
QATAR	13	0	0	3	0	5	0	5.01	69.23	11	0	0	11	0	0	0	2.44	72.73	6-Aug-23
SAUDI ARABIA	163	0	0	118	0	0	0	3.27	96.32	274	0	0	274	0	0	0	3.18	93.80	6-Aug-23
SOMALIA	250	0	0	234	2	0	0	4.67	95.20	356	0	0	349	6	0	0	4.28	97.19	6-Aug-23
SUDAN	229	0	0	154	0	36	31	1.86	96.94	650	0	0	649	1	0	0	3.25	97.08	26-Jul-23
SYRIA	184	0	0	160	0	0	0	3.98	97.83	382	0	0	382	0	0	0	4.96	94.76	5-Aug-23
TUNISIA	65	0	0	60	0	0	0	3.68	66.15	55	0	0	55	0	0	0	1.91	61.82	4-Aug-23
U.A.E.	35	0	0	21	0	7	0	3.98	91.43	66	0	0	66	0	0	0	4.47	96.97	1-Aug-23
YEMEN	643	0	0	449	1	21	2	6.75	88.34	1377	0	1	1214	162	0	0	8.76	86.64	5-Aug-23
EMR POL	17099	7	0	15218	3	279	41	9.82	89.11	31126	22	2	30925	171	5	0	10.77	88.17	

* 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)

Laboratory investigation of AFP cases with paralysis onset in 2023

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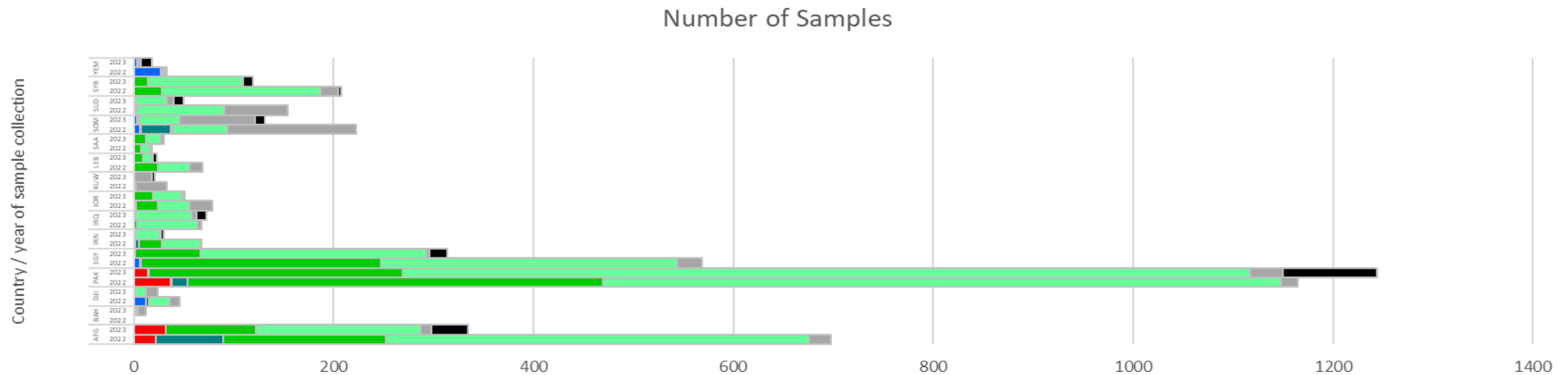
Country	Polio laboratories		AFP cases with specimens	Preliminary virus isolation results of AFP cases					Poliovirus intratypic differentiation results													Indicators				Latest report Date	
	ITD / Nucleotide Sequencing			Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			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		3296	163	17	421	2485	145	1	4 *	111					135			2	2		12%	91%	100%	98%	6-Aug-23	
Bahrain	NPL Oman / CDC		9			1	7	1														6%	100%		25%	2-Aug-23	
Djibouti	NPL Kenya / CDC		8			1	4		3													20%	100%		100%	5-Aug-23	
Egypt	RRL Egypt		928	9		87	773	55	5		6					5					1	8%	97%	100%	100%	4-Aug-23	
Iran	NPL Iran / CDC		659	7		8	616	3	25		5					3						1%	100%	100%	99%	28-Jul-23	
Iraq	NPL Iraq, RRL Egypt		524	3		35	460	18	8		2					2						8%	100%	100%	99%	3-Aug-23	
Jordan	NPL Jordan, RRL Egypt		57			12	45															20%	93%		100%	6-Aug-23	
Kuwait	RRL Kuwait / RIVM		32			3	28		1													10%	100%		100%	6-Aug-23	
Lebanon	NPL Jordan, NPL Syria, RRL Egypt		54				42		12													1%	100%			31-Jul-23	
Libya	RRL Tunisia / RIVM		56	1		1	54				1											2%	96%	1	100%	31-Jul-23	
Morocco	NPL Morocco, RRL Tunisia		65			2	60	3														4%	98%		92%	4-Aug-23	
Oman	NPL Oman / CDC		14			1	13															15%	100%		100%	2-Aug-23	
Pakistan	RRL Pakistan		9539	243	19	1184	7616	271	129	2	153					194						11%	89%	100%	96%	6-Aug-23	
Palestine & UNRWA			17	1			16				1			1								0%	38%			6-Aug-23	
Qatar	NPL Oman / CDC		12	1			10	1								1						0%	100%	1	100%	2-Aug-23	
Saudi Arabia	NPL Saudi Arabia / CDC		152	1		5	146				1											3%	99%	100%	99%	30-Jul-23	
Somalia	NPL Kenya / CDC		250	6		41	191	1	13		3			2	2		2					17%	4%		96%	6-Aug-23	
Sudan	NPL Sudan / RRL Egypt		212	7		29	159		17					2			1					14%	99%	100%	54%	14-Apr-23	
Syria	NPL Syria / RRL Egypt		172	1	1	8	150	6	6													5%	100%			31-Jul-23	
Tunisia	RRL Tunisia		69	1		3	61	2	2							1						3%	95%	1	97%	31-Jul-23	
U.A.E	NPL Oman / CDC		34			2	32															6%	94%		21%	2-Aug-23	
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt		469	16	1	85	350		17		9			1	1		13					16%	11%	100%	8%	5-Aug-23	
Total EMR 2023			16628	460	38	1929	13318	506	239	7 *	292			6	3		357			2	2	1	10%	87%	100%	94%	
Total EMR 2022			30461	1066	119	4831	24432		9	22 *	556	2		38	169 **		723		6	8	2	1	13%	93%	89%	92%	

* In 2023 – one WPV1 case is confirmed due to positive contact while in 2022 - three WPV1 cases were 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. 1296, Week 31 (ending on 06/08/2023)

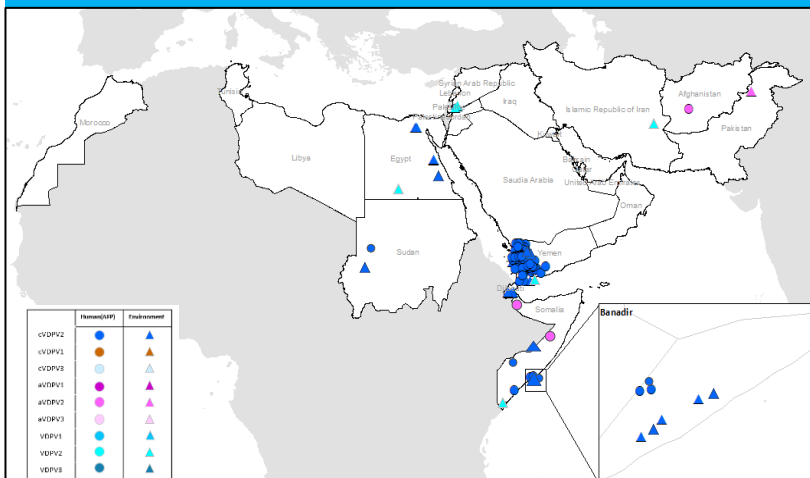


	AFG		BAH		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM		
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	
🚩 Wild	22	32					37	14																							
🇧🇩 cVDPV2					12				6														6	3	1					27	3
🇧🇩 Wild+cVDPV2																															
🇷🇺 Wild+aVDPV2																															
🇷🇺 Wild+aVDPV3																															
🇵🇰 aVDPV1																															
🇵🇰 aVDPV2							1		1																						
🇵🇰 aVDPV3																															
🇮🇷 VDPV1																															
🇮🇷 VDPV2										1	1				2								1							2	1
🇮🇷 VDPV3								1																							
🇸🇰 SL2	68				3		16				4												30	2					1	1	
🇸🇰 SL1/3	162	90		2		1	415	254	240	66	23	1	3	1	22	19			24	9	7	12	2		2	1	28	14	2	2	
🇸🇰 Entero	424	165		2	21	11	679	848	297	226	39	25	61	57	32	29	2		32	9	9	15	55	41	88	32	159	94	1		
🇸🇰 Negative	22	11		8	10	12	17	33	25	3	1	1	4	5	23	1	31	18	13	1	2	3	128	75	63	7	18	1			
🇸🇰 Pending		37						94		18		3		10		2		3		4				10		10	3	10		11	

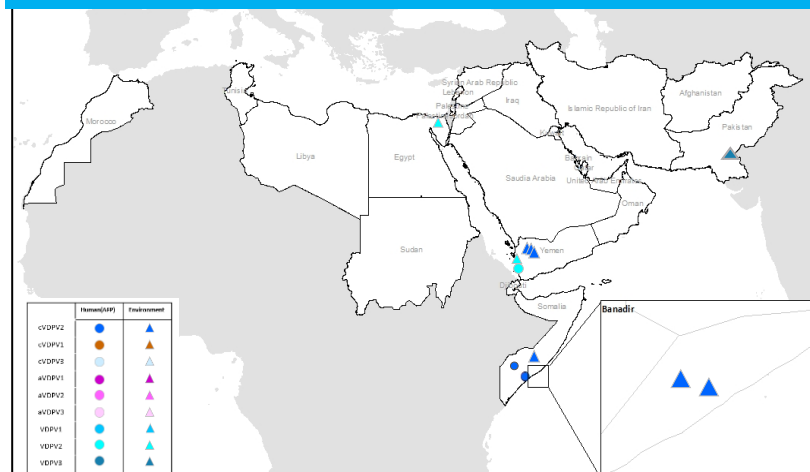
VDPVs isolations by Source and Country

EMR Polio Bulletin - Issue No. 1296 Week 31 (ending on 06/08/2023)

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			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	3	25-05-23		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	14-12-22				23	40		19-12-22				13	27	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			30-05-21				1		14-06-21			1	67	1		12-01-22								
	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													1	12-07-23								
	Iran																		1		04-02-22								
	Jordan																		2		25-05-22								
	Somalia					1	01-09-22												1		22-04-23								
	Yemen						1	09-05-23											3	1	26-04-23								
VDPV3	Pakistan																		1	14-02-23									

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)