

Highlights



Children
Paralyzed
by polio

2021

- 05 cases of Wild Polio 1
 - 04 in Afghanistan
 - 01 in Pakistan

- 118 cases of cVDPV2
 - 43 in Afghanistan
 - 08 in Pakistan
 - 01 in Somalia
 - 66 in Yemen

- 03 cVDPV1 cases
 - All in Yemen

2022

- 22 cases of Wild Polio 1
 - 02 in Afghanistan
 - 20 in Pakistan

- 164 cases of cVDPV2
 - 04 in Somalia
 - 159 in Yemen
 - 01 in Sudan

- Zero case of cVDPV1
(No cVDPV1 for the last 20 months)



Sewage
water
sampling

2021

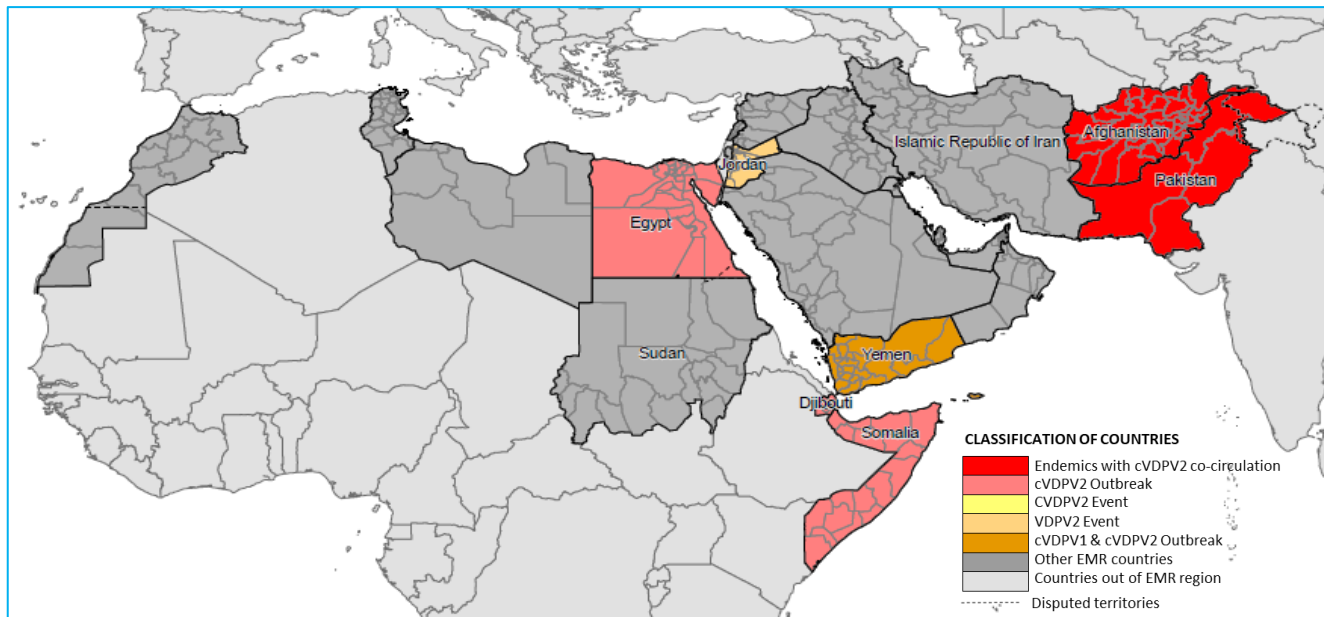
- 66 samples Wild Polio 1
 - 01 in Afghanistan
 - 65 in Pakistan

- 107 samples cVDPV2
 - 40 in Afghanistan
 - 35 in Pakistan
 - 12 in Egypt
 - 01 in Iran
 - 01 in Somalia
 - 05 in Djibouti
 - 13 in Yemen

2022

- 57 samples Wild Polio 1
 - 20 in Afghanistan
 - 37 in Pakistan

- 32 samples of cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 03 in Somalia
 - 01 in Sudan
 - 10 in Yemen



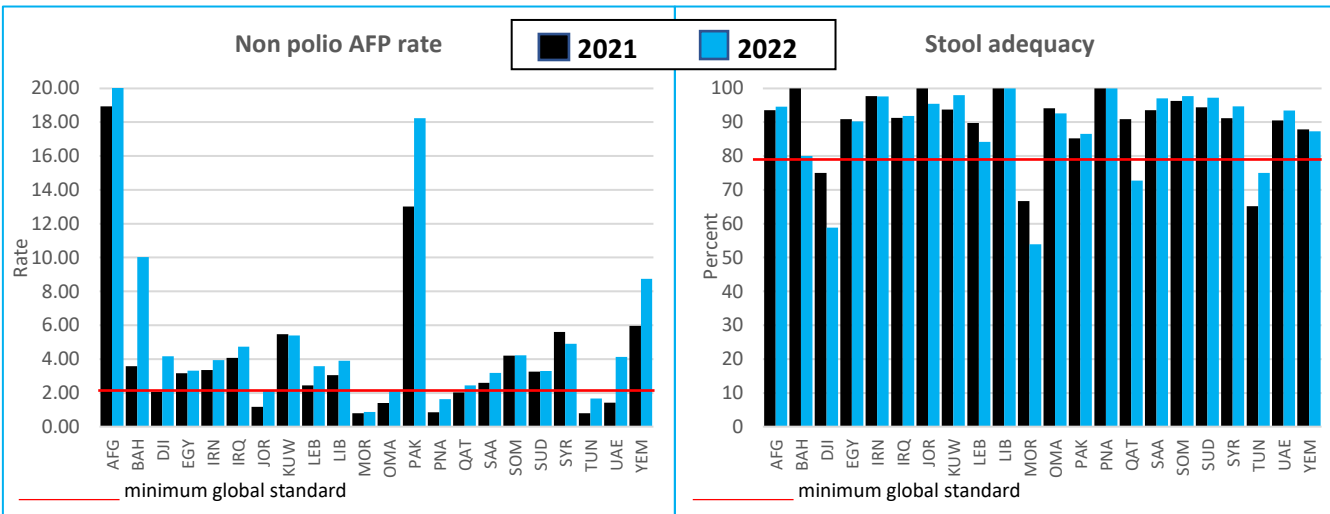
Highlights of the week

Wild Poliovirus

- No new Wild Poliovirus isolates from human or environmental samples were reported this week. The cases count in 2022 remains to be 22 cases (2 from Afghanistan and 20 from Pakistan) and positive environmental samples are 57 (20 in Afghanistan and 37 in Pakistan).

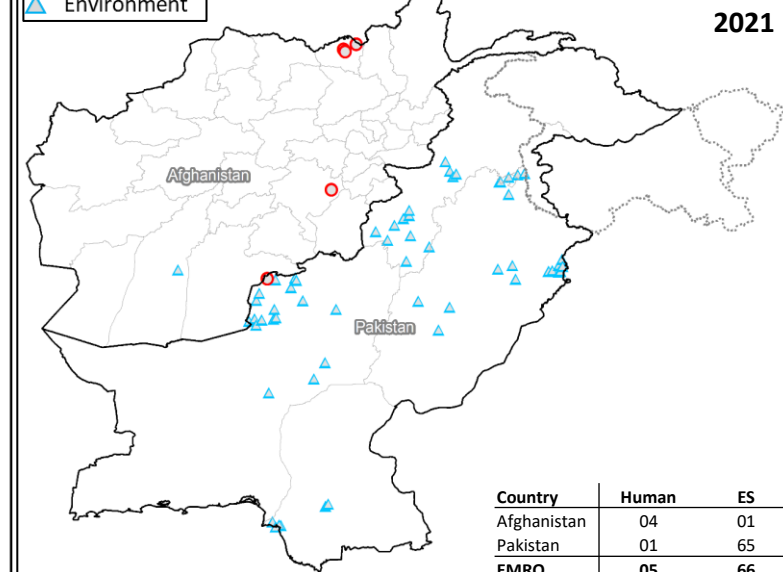
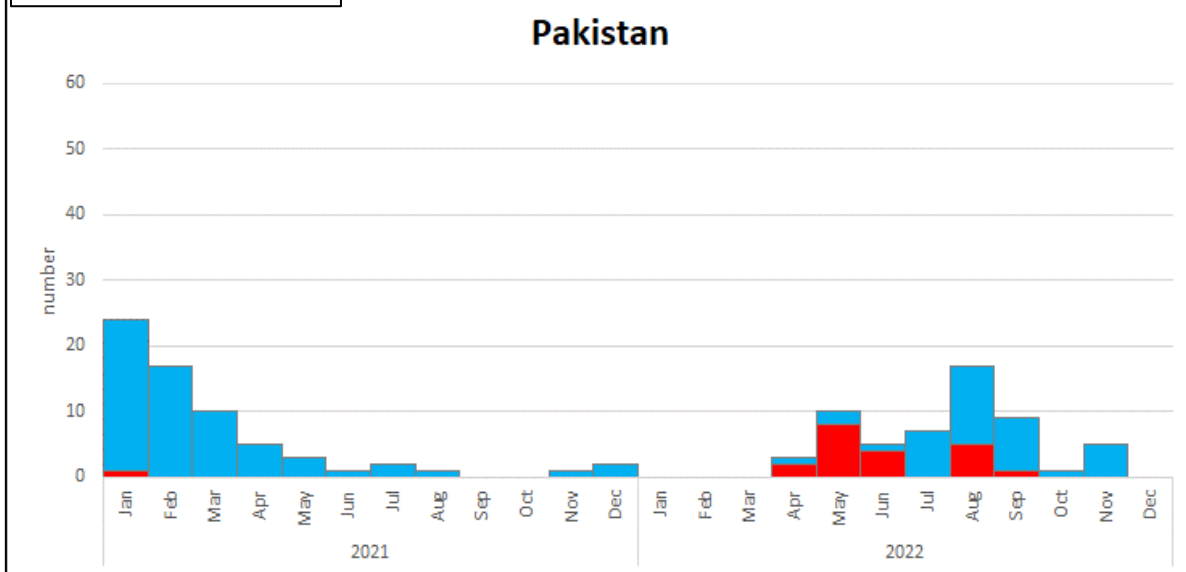
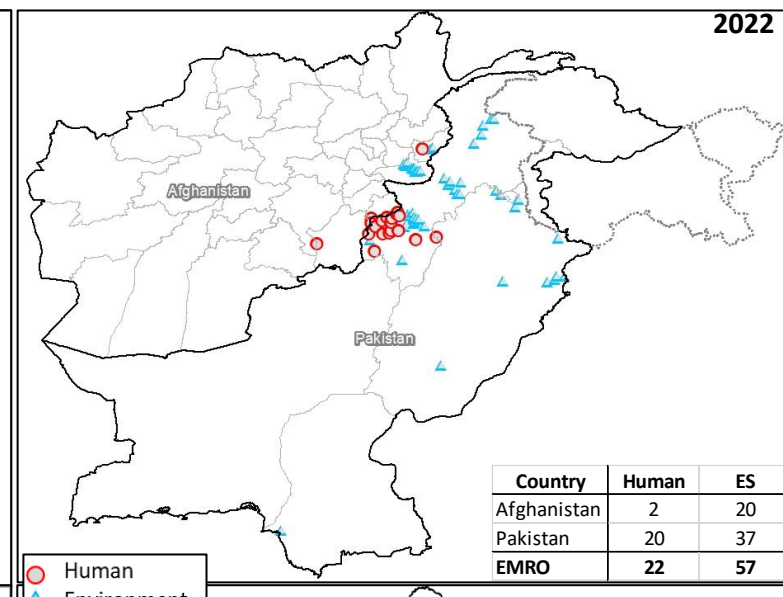
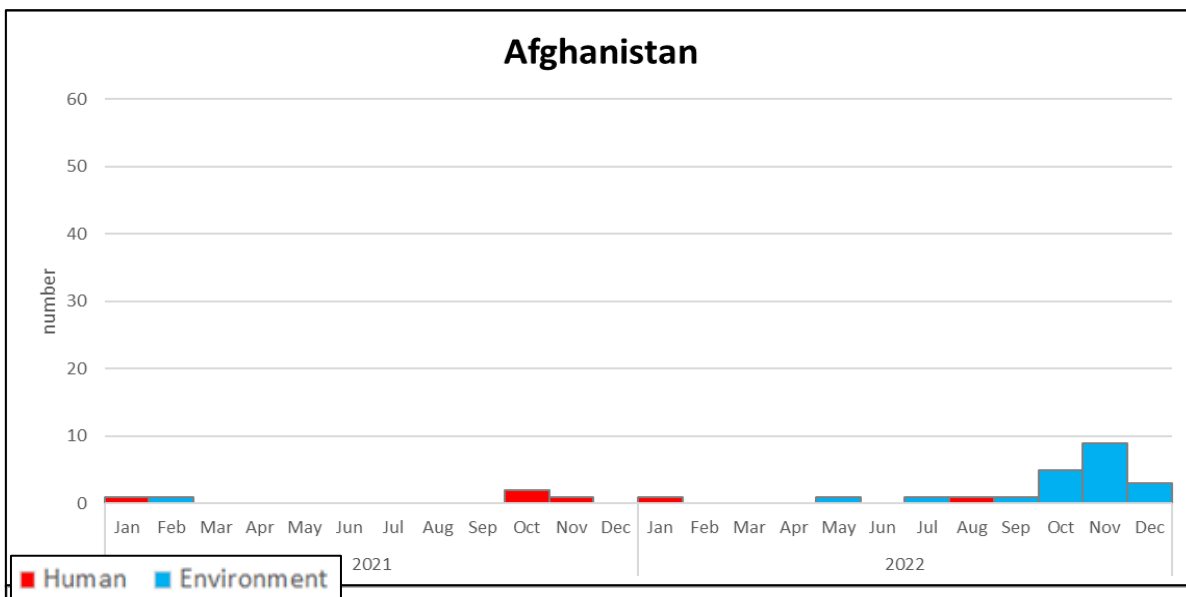
Circulating Vaccine derived poliovirus (cVDPV)

- No cVDPVs isolates from human or environmental samples were reported this week. The cVDPV2 cases count in 2022 remains to be 164 cases (1 from Sudan, 4 from Somalia and 159 from Yemen) and positive environmental samples are 32 (1 in Sudan, 3 in Somalia, 6 in Egypt, 10 in Yemen and 12 in Djibouti).






WPV1 Positive isolates from Afghanistan and Pakistan by source

EMR Polio Bulletin - Issue No. 1266, Week 01 (ending on 08/01/2023)



Virus isolation by country, last 12 months (Jan. 08, 2022 to Jan. 08, 2023)

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Source / Virus type 	AFG	DJI	PAK	EGY	IRN	JOR	SOM	SUD	YEM	Total
 Human (AFP only)	2		20				3	1	151	177
Wild	2		20							22
cVDPV2							3	1	151	155
aVDPV2										
VDPV2										
 Environment	20	12	38	7	1	3	4	1	11	97
Wild	20		37							57
cVDPV2		12		6			3	1	10	32
aVDPV2			1							1
VDPV2				1	1	3	1		1	7
Total	22	12	58	7	1	3	7	2	162	274

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. 1266, Week 01 (ending on 08/01/2023)

Country	Total year 2021	Total year 2022	08 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	0	0	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						
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				
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					
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				
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					
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	0	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

EMR Polio Bulletin - Issue No. 1266, Week 01 (ending on 08/01/2023)

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	9	0	0	0	0	0	0	1.86	100.00	5332	2	0	5089	1	9	0	24.16	94.62	8-Jan-23
BAHRAIN	0	0	0	0	0	0	0	0.00		30	0	0	20	0	2	0	10.02	80.00	8-Jan-23
DJIBOUTI	0	0	0	0	0	0	0	0.00		17	0	0	14	0	2	0	4.16	58.82	7-Jan-23
EGYPT	0	0	0	0	0	0	0	0.00		1330	0	0	1213	0	31	1	3.32	90.23	5-Jan-23
IRAN	0	0	0	0	0	0	0	0.00		799	0	0	788	0	0	0	3.94	97.62	7-Jan-23
IRAQ	0	0	0	0	0	0	0	0.00		824	0	0	749	0	30	0	4.73	91.87	31-Dec-22
JORDAN	0	0	0	0	0	0	0	0.00		88	0	0	85	0	0	0	2.12	95.45	5-Jan-23
KUWAIT	0	0	0	0	0	0	0	0.00		50	0	0	47	0	0	0	5.40	98.00	2-Jan-23
LEBANON	0	0	0	0	0	0	0	0.00		57	0	0	29	0	6	0	3.58	84.21	7-Jan-23
LIBYA	2	0	0	0	0	0	0	3.52	100.00	101	0	0	69	0	1	1	3.89	100.00	7-Jan-23
MOROCCO	2	0	0	0	0	0	0	0.95	0.00	89	0	0	46	0	28	1	0.88	53.93	6-Jan-23
OMAN	0	0	0	0	0	0	0	0.00		27	0	0	27	0	0	0	2.10	92.59	8-Jan-23
PAKISTAN	0	0	0	0	0	0	0	0.00		18414	20	1	17295	0	197	4	18.24	86.56	8-Jan-23
PALESTINE	0	0	0	0	0	0	0	0.00		33	0	0	14	0	1	0	1.64	100.00	8-Jan-23
QATAR	0	0	0	0	0	0	0	0.00		11	0	0	8	0	0	0	2.44	72.73	31-Dec-22
SAUDI ARABIA	0	0	0	0	0	0	0	0.00		274	0	0	209	0	4	0	3.18	97.08	8-Jan-23
SOMALIA	0	0	0	0	0	0	0	0.00		351	0	0	312	4	4	4	4.22	97.72	8-Jan-23
SUDAN	0	0	0	0	0	0	0	0.00		641	0	0	608	1	1	0	3.29	97.19	5-Jan-23
SYRIA	1	0	0	0	0	0	0	0.59	100.00	377	0	0	344	0	0	0	4.90	94.69	7-Jan-23
TUNISIA	0	0	0	0	0	0	0	0.00		48	0	0	36	0	1	1	1.67	75.00	6-Jan-23
U.A.E.	0	0	0	0	0	0	0	0.00		61	0	0	0	0	40	0	4.14	93.44	6-Jan-23
YEMEN	0	0	0	0	0	0	0	0.00		1352	0	0	972	159	15	0	8.75	87.28	7-Jan-23
EMR POL	14	0	0	0	0	0	0	0.24	85.71	30306	22	1	27974	165	372	12	10.52	89.14	

* 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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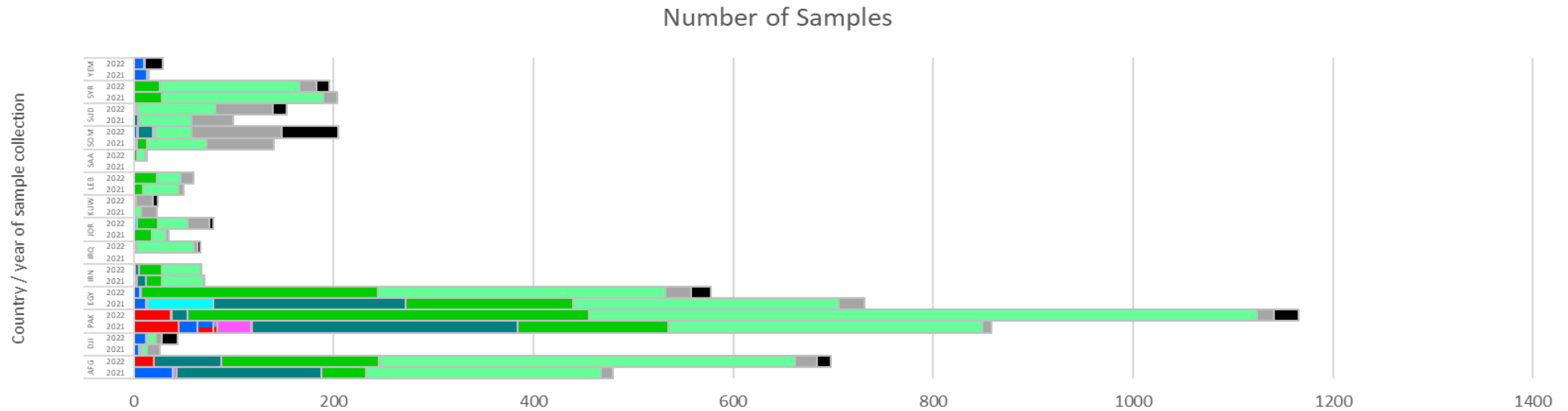
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators				Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant pending sequences	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	5276	297	44	905	3842	171	2	2	226			8			259						15%	97%	100%	99%	8-Jan-23
Bahrain	NPL Oman / CDC	28			1	27																3%	96%		71%	5-Jan-23
Djibouti	NPL Kenya / CDC	17	2		5	8		2		2			2			2						33%	67%		73%	7-Jan-23
Egypt	RRL Egypt	1353	26	5	178	1083	51	10		8						14			5	1		12%	95%	100%	99%	5-Jan-23
Iran	NPL Iran / CDC	825	11		10	789	15			4	1					8						1%	100%	100%	98%	7-Jan-23
Iraq	NPL Iraq, RRL Egypt	828	3		64	728	11	22								4					2	8%	100%	50%	99%	29-Dec-22
Jordan	NPL Jordan, RRL Egypt	88	3		19	61	1	4								3						25%	99%	1	100%	8-Jan-23
Kuwait	RRL Kuwait / RIVM	52	2			49		1		1						1		1	1		1	2%	100%	1	100%	8-Jan-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	34	1			33																0%	100%			13-Dec-22
Libya	RRL Tunisia / RIVM	75			2	70		3														3%	100%		100%	19-Nov-22
Morocco	NPL Morocco, RRL Tunisia	75			4	68	3															6%	100%		94%	6-Jan-23
Oman	NPL Oman / CDC	30			4	25		1														13%	83%		100%	5-Jan-23
Pakistan	RRL Pakistan	17995	463	60	3038	13858	533	27	17 *	276			1			375						14%	98%	100%	97%	8-Jan-23
Palestine & UNRWA		33				29	3	1														0%	21%		97%	8-Jan-23
Qatar	NPL Oman / CDC	14	1			13				1												0%	93%	0	100%	5-Jan-23
Saudi Arabia	NPL Saudi Arabia / CDC	267	4		5	250	2	7		1						2						2%	90%	33%	98%	25-Dec-22
Somalia	NPL Kenya / CDC	351	10	1	60	251	5	31		2			9	4								19%	6%		88%	8-Jan-23
Sudan	NPL Sudan / RRL Egypt	645	9		156	459	20	1						1					1			24%	78%	100%	30%	7-Jan-23
Syria	NPL Syria / RRL Egypt	346	2		24	311		9														6%	100%			13-Dec-22
Tunisia	RRL Tunisia	37				37																1%	100%		95%	19-Nov-22
U.A.E	NPL Oman / CDC	61			2	59																2%	84%		75%	5-Jan-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	1184	180	5	204	795				12			8	155 **		25		5	1	1		16%	23%	36%	9%	7-Jan-23
Total EMR 2022		29614	1014	115	4681	22845	815	121	22	533	1		28	164		693		6	8	2	3	14%	93%	89%	93%	
Total EMR 2021		22113	1183	128	3874	16919		4	5	478	7		363	117		599	1	1	7	2	2	14%	97%	97%	93%	

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

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

Environmental Surveillance Isolation by Classification

EMR Polio Bulletin - Issue No. 1266, Week 01 (ending on 08/01/2023)

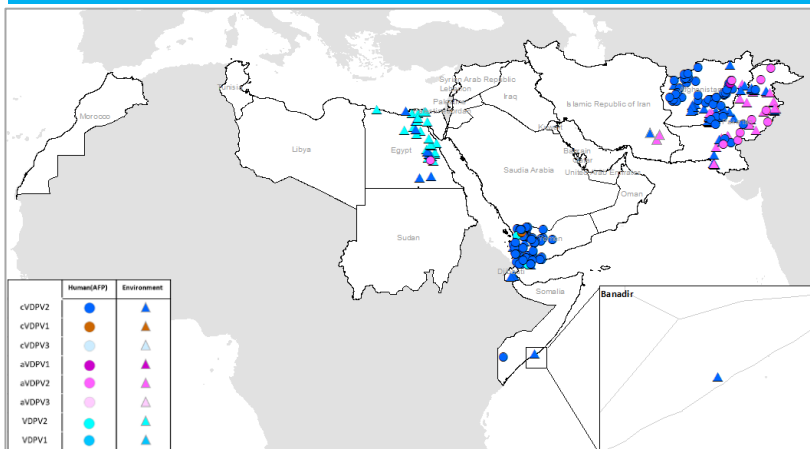


	AFG		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SAA		SOM		SUD		SYR		YEM	
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
Wild		20			45	37																						
cVDPV2	39		5	12	19		12	6	1												1	3		1			13	10
Wild+cVDPV2	1				16																							
Wild+aVDPV2					4																							
Wild+aVDPV3																												
aVDPV1																												
aVDPV2	3				33	1			2																			
aVDPV3																												
VDPV1					1		1																					
VDPV2							67	1		1			3									1						1
SL2	145	68		1	266	16	192		9	4											2	15	4					
SL1/3	44	157	2		151	402	168	237	16	23		2	18	21			9	23		3	10	2	1	2	28	26	1	
Entero	235	417	6	9	314	668	265	288	42	39		58	14	30	7	2	36	24		8	60	37	53	79	162	140	1	
Negative	12	22	13	6	9	17	26	26	1	1		4	3	22	16	17	5	13		2	67	90	41	57	14	17		
Pending		14		16		25		20				3		4		5						57		14		13		18

VDPVs isolations by Source and Country

EMR Polio Bulletin - Issue No. 1261 Week 01 (ending on 08/01/2023)

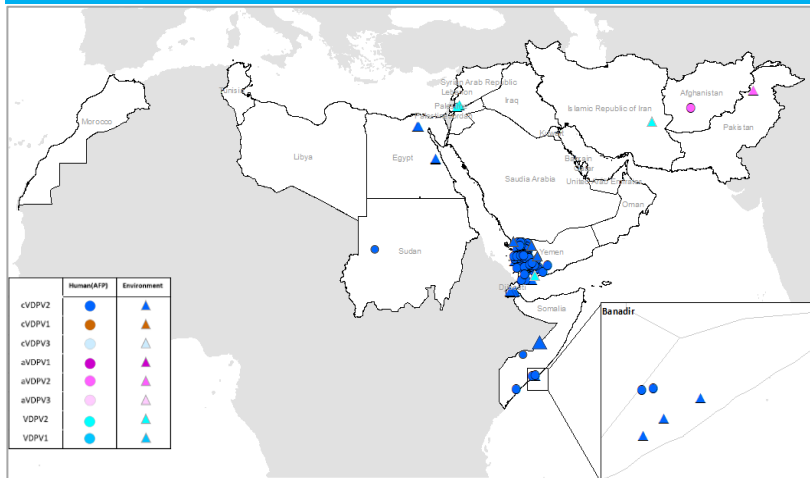
VDPV Isolates, EMR countries, 2021



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	4		17-07-22	3	1	11		3	22-02-22	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							
	Yemen																			1		24-04-22							

VDPV Isolates, EMR countries, 2022



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)