

EMR Polio Bulletin

World Health Organization – Regional Office for Eastern Mediterranean Issue No. 1218, Week 05 (ending on 06/02/2022)

Highlights



Children
Paralyzed
by polio

2021

- 05 cases of Wild Polio 1
 - 04 in Afghanistan
 - 01 in Pakistan
- 63 cases of cVDPV2
 - 43 in Afghanistan
 - 08 in Pakistan
 - 01 in Somalia
 - 11 in Yemen
- 03 cVDPV1 cases
 - All in Yemen

2022

- 01 case of Wild Polio 1
 - 01 in Afghanistan
- Zero case of cVDPV2
(No cVDPV2 for the last 3 months)
- Zero case of cVDPV1
(No cVDPV1 for the last ten months)



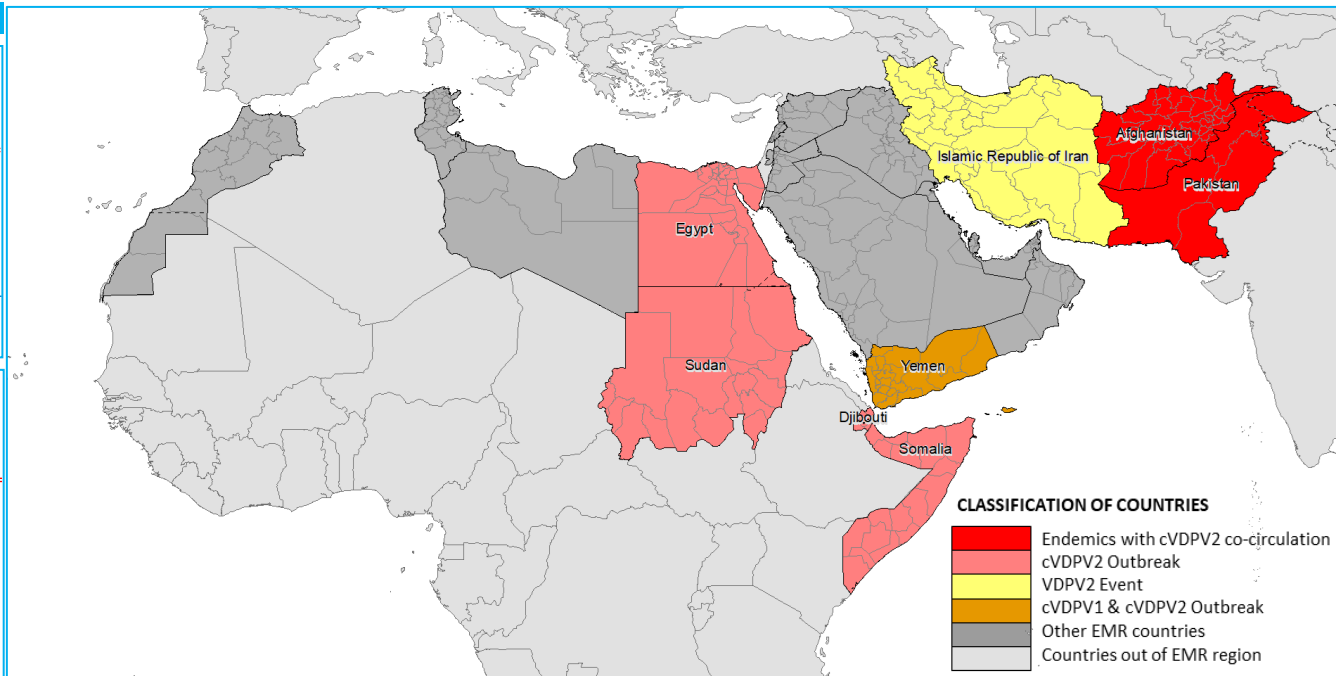
Sewage
water
sampling

2021

- 66 samples Wild Polio 1
 - 01 in Afghanistan
 - 65 in Pakistan
- 91 samples cVDPV2
 - 40 in Afghanistan
 - 35 in Pakistan
 - 11 in Egypt
 - 01 in Iran
 - 01 in Somalia
 - 03 in Djibouti

2022

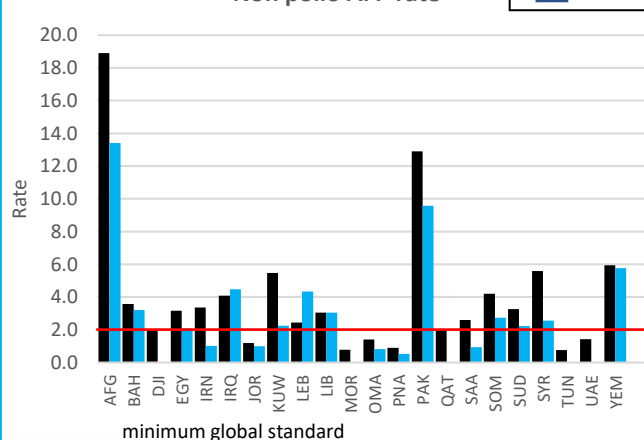
- No sample positive for Wild Polio 1
(No WPV1 for the last 2 months)
- No sample positive for cVDPV2
(No cVDPV2 for the last 3 months)



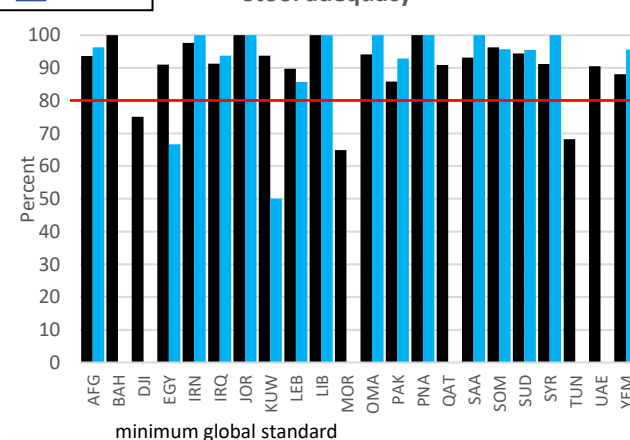
Highlights of the week

- Afghanistan: reported first wild poliovirus type 1 case with date of onset 14th January 2022 from Dila district, Paktika province. The child is a 24 months old female with zero OPV doses. It is genetically linked to Pakistan environmental sample of Quetta district, Balochistan province
- Egypt: The first VDPV2 positive environmental sample was reported from Asyut province with date of specimen collection on 12th January 2022

Non polio AFP rate



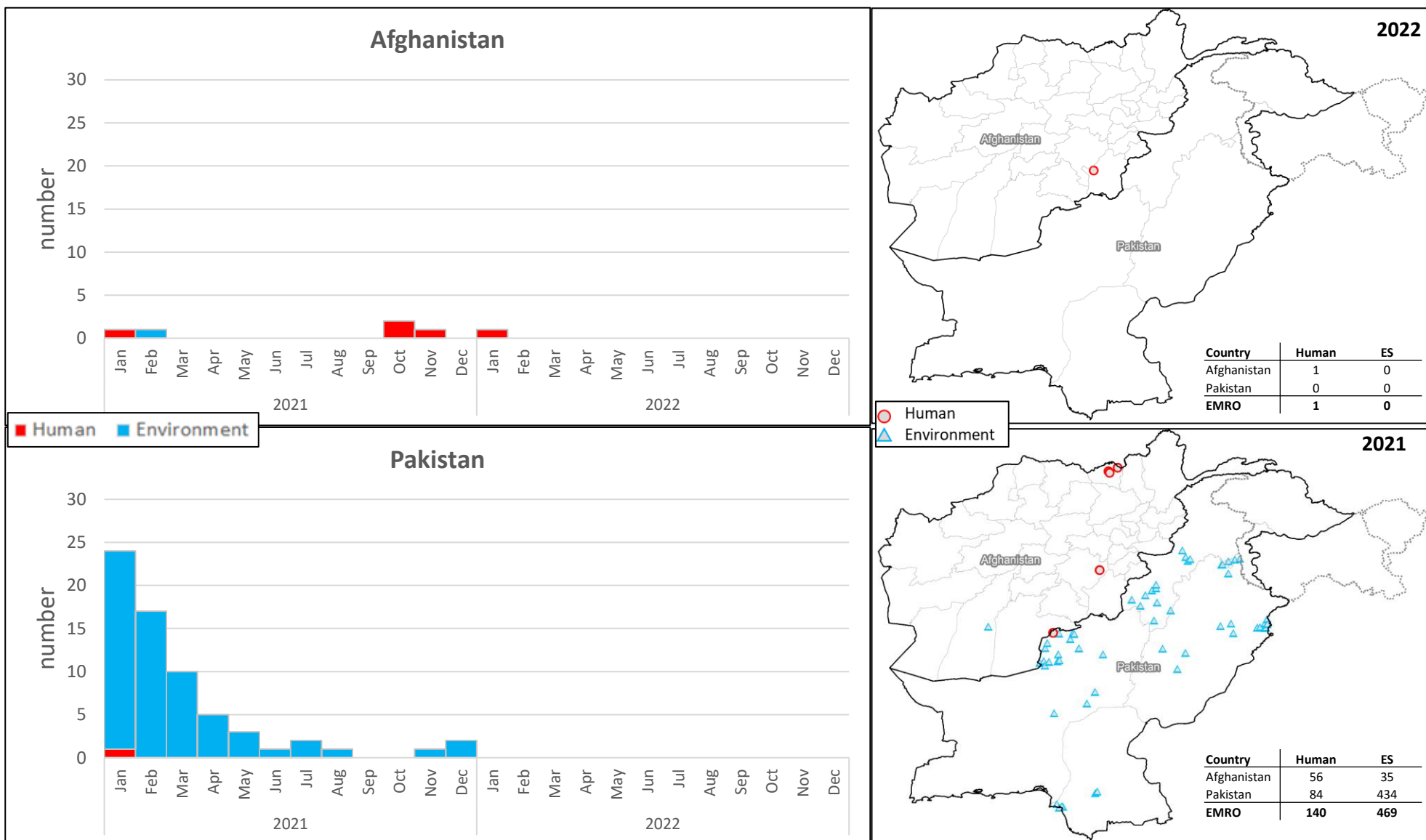
Stool adequacy



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

WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (Feb. 6, 2021 to Feb. 6, 2022)

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Source / Virus type	AFG	DJI	PAK	EGY	IRN	SOM	YEM	Total
Human (AFP only)	31		7	1		1	14	54
Wild	4							4
cVDPV2	25		2			1	11	39
Wild+cVDPV2								
Wild+aVDPV3								
cVDPV1							2	2
aVDPV1	1							2
aVDPV2	1		5	1				7
VDPV1							1	
VDPV2								
Environment	26	3	83	74	3	1		190
Wild			28					28
cVDPV2	23	3	13	4	1	1		45
Wild+cVDPV2	1		8					9
Wild+aVDPV3			1					1
cVDPV1								
aVDPV1			1					1
aVDPV2	2		30		2			34
VDPV1				1				1
VDPV2			2	69				71

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 2020	Total year 2021	30-01		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case	
					2021						2022							
			2021	2022	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		
Afghanistan	56	4	1	1	0	0	0	0	0	0	0	0	2	1	0	1		14-Jan-22
Bahrain	0	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	0	0	0		
Egypt	0	0	0	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	0	0		
Iraq	0	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	0		
Kuwait	0	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	0	0	0		
Libya	0	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	0	0		
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	84	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		27-Jan-21
Palestine *****	0	0	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	0		
Saudi Arabia	0	0	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	0	0	0		
Sudan	0	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	0	0	0		
Tunisia	0	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	0	0	0		
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
EMR	140	5	2	1	0	0	0	0	0	0	0	0	2	1	0	1		14-Jan-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	2021									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			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		
AFGHANISTAN	4082	4	1	3968	45	31	0	18.90	93.61	294	1	0	122	0	0	0	12.81	96.26	6-Feb-22
BAHRAIN	11	0	0	8	0	0	0	3.58	100.00	1	0	0	0	0	0	0	3.96	0.00	6-Feb-22
DJIBOUTI	8	0	0	4	0	0	0	2.06	75.00	0	0	0	0	0	0	0	0.00		12-Dec-21
EGYPT	1250	0	0	1221	1	1	0	3.16	90.96	84	0	0	0	0	0	0	1.54	66.67	3-Feb-22
IRAN	681	0	0	681	0	0	0	3.36	97.65	22	0	0	4	0	0	0	1.20	100.00	5-Feb-22
IRAQ	709	0	0	690	0	8	0	4.08	91.26	79	0	0	43	0	0	0	4.20	93.67	4-Feb-22
JORDAN	47	0	0	41	0	0	0	1.19	100.00	4	0	0	3	0	0	0	0.92	100.00	3-Feb-22
KUWAIT	48	0	0	45	0	0	0	5.47	93.75	2	0	0	0	0	0	0	0.00	50.00	30-Jan-22
LEBANON	39	0	0	36	0	3	0	2.45	89.74	7	0	0	0	0	0	0	5.35	85.71	5-Feb-22
LIBYA	79	0	0	79	0	0	0	3.05	100.00	8	0	0	0	0	0	0	1.41	100.00	5-Feb-22
MOROCCO	77	0	0	36	0	27	6	0.78	64.94	0	0	0	0	0	0	0	0.00		14-Jan-22
OMAN	17	0	0	17	0	0	0	1.41	94.12	1	0	0	0	0	0	0	0.00	100.00	1-Feb-22
PAKISTAN	13029	1	4	12745	18	52	0	12.92	85.75	976	0	0	410	0	0	0	4.12	92.83	6-Feb-22
PALESTINE	16	0	0	9	0	2	0	0.85	100.00	1	0	0	0	0	0	0	0.00	100.00	6-Feb-22
QATAR	11	0	0	9	0	0	0	2.03	90.91	0	0	0	0	0	0	0	0.00		6-Feb-22
SAUDI ARABIA	218	0	0	194	0	0	0	2.60	93.12	8	0	0	0	0	0	0	1.16	100.00	6-Feb-22
SOMALIA	349	0	0	348	1	0	0	4.21	96.28	23	0	0	7	0	0	0	2.06	95.65	6-Feb-22
SUDAN	637	0	0	626	0	7	0	3.26	94.35	44	0	0	16	0	0	0	1.56	95.45	5-Feb-22
SYRIA	431	0	0	423	0	0	0	5.60	91.18	20	0	0	0	0	0	0	1.90	100.00	5-Feb-22
TUNISIA	22	0	0	19	0	0	0	0.77	68.18	0	0	0	0	0	0	0	0.00		4-Feb-22
U.A.E.	21	0	0	21	0	0	0	1.42	90.48	0	0	0	0	0	0	0	0.00		2-Feb-22
YEMEN	919	0	0	637	15	72	59	5.95	88.03	90	0	0	0	0	0	0	5.13	95.56	5-Feb-22
EMR POL	22701	5	5	21857	80	203	65	7.93	88.69	1664	1	0	605	0	0	0	3.56	92.55	

* 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)

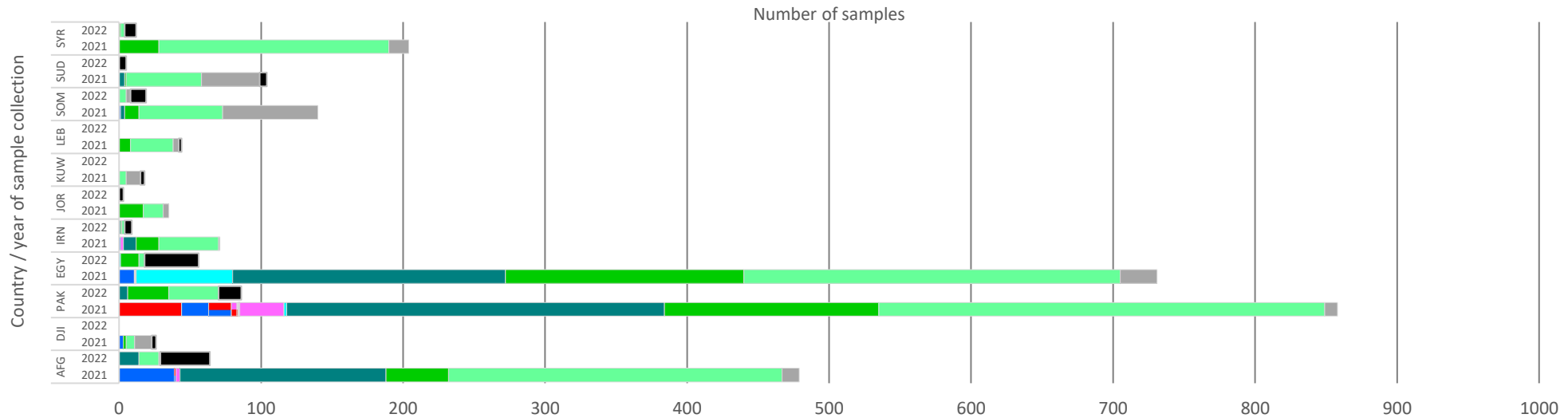
Laboratory investigation of AFP cases with paralysis onset in 2022

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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	281	22	1	19	91	142		1	7			4			13					6	11%	100%	100%	100%	6-Feb-22
Bahrain	NPL Oman / CDC																									6-Feb-22
Djibouti	NPL Kenya / CDC																									12-Dec-21
Egypt***	RRL Egypt	80	1		5	33	40	1										1				12%	100%	100%	100%	3-Feb-22
Iran	NPL Iran / CDC	39	1			27	11										1					0%	100%	100%	100%	5-Feb-22
Iraq	NPL Iraq, RRL Egypt	80			2	51	27															3%	100%		100%	4-Feb-22
Jordan	NPL Jordan, RRL Egypt	4				3	1															0%	100%		100%	6-Feb-22
Kuwait	RRL Kuwait / RIVM																									6-Feb-22
Lebanon	NPL Jordan, NPL Syria, RRL Egypt																									6-Feb-22
Libya	RRL Tunisia / RIVM																									28-Jan-22
Morocco	NPL Morocco, RRL Tunisia	1				1																0%	100%		100%	28-Jan-22
Oman	NPL Oman / CDC	2				1	1															0%	100%		100%	3-Feb-22
Pakistan	RRL Pakistan	957	15		82	335	510	7		10			1			5					2	12%	100%	100%	100%	6-Feb-22
Palestine & UNRWA		1				1																0%	0%		100%	6-Feb-22
Qatar	NPL Oman / CDC																									3-Feb-22
Saudi Arabia	NPL Saudi Arabia / CDC	2						2																		6-Feb-22
Somalia	NPL Kenya / CDC	23			1	6	10	6														14%	0%		100%	6-Feb-22
Sudan	NPL Sudan / RRL Egypt	33			1	5	12	15														13%	100%			27-Jan-22
Syria	NPL Syria / RRL Egypt	7						7																		6-Feb-22
Tunisia	RRL Tunisia																									28-Jan-22
U.A.E	NPL Oman / CDC																									3-Feb-22
Yemen	NPL Oman, NPL Kenya, RRL Egypt																									5-Feb-22
Total EMR 2022		1510	39	1	110	554	754	38	1	17			5			18		1	1		8	11%	99%	100%	100%	
Total EMR 2021		21906	1118	125	3829	16674	115	41	5	473	7		363	66		581	1	1	7	2	5	15%	97%	99%	94%	

Environmental Surveillance Isolation by Classification

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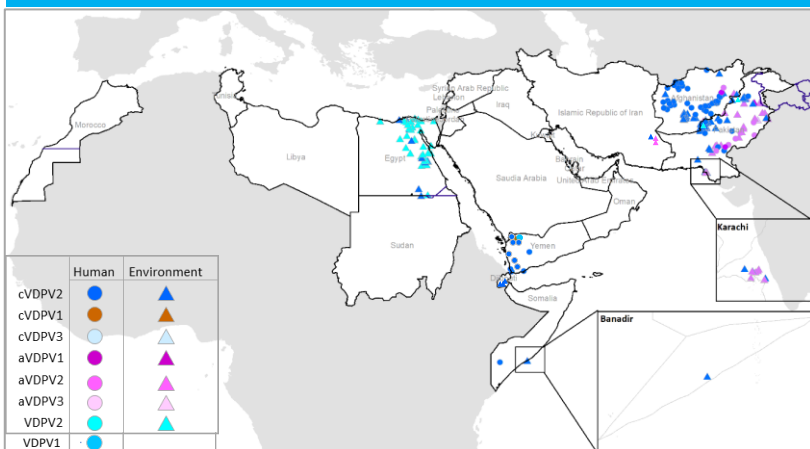


	AFG		DJI		PAK		EGY		IRN		JOR		KUW		LEB		SOM		SUD		SYR	
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
Wild					44																	
cVDPV2	39		3		19		11		1								1					
Wild+cVDPV2	1				16																	
Wild+aVDPV2					4																	
Wild+aVDPV3					1																	
aVDPV1					1																	
aVDPV2	3				31				2													
aVDPV3																						
VDPV1							1															
VDPV2					2		68	1														
SL2	145	14			266	6	192		9	1							3		4			
SL1/3	44		2		151	29	168	13	16	1	17				8		10		1		28	1
Entero	235	14	6		314	35	265	4	42	2	14		5		30		59	5	53		162	3
Negative	12	1	12		9		26		1		4		10		4		67	3	41		14	
Pending		35	3			16		38		5		3	3		2			11	5	5		8

VDPVs isolations by Source and Country

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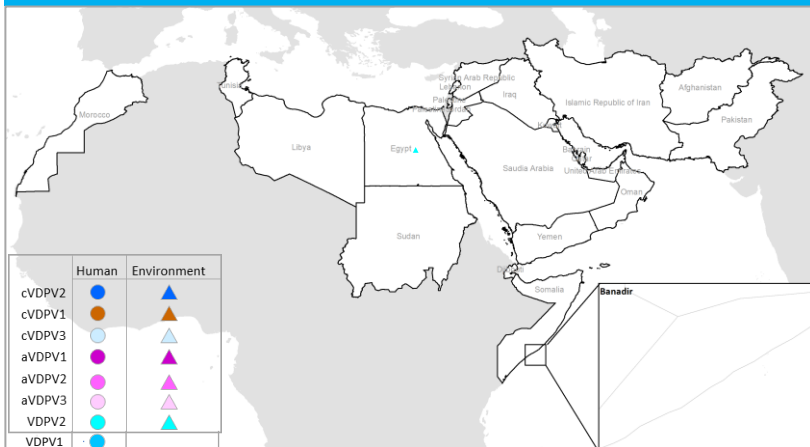
VDPV Isolates, EMR countries, 2020



VDPVs isolated from 2017-2022

cVDPV 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																			3			28-11-21						
	Egypt																			11			18-11-21						
	Iran																			3	1		20-02-21						
	Pakistan				22	135	8		23-04-21										38	135	35		11-08-21						
	Somalia		6	3	14	1		12-05-21		3	1	11			10-11-20	2	19	5	26	1		23-05-21				1	5		22-09-20
	Sudan				58			18-12-20				18			08-10-20				14			09-11-20				4			24-08-21
	Syria	74						21-09-17	63						12-09-17								4						20-08-17
	Yemen					11		15-Oct-21																					
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																					
aVDPV2	Afghanistan			3	1			01-03-21				75	15		03-05-21				2	3		25-07-21							
	Egypt					1		30-05-21					1		14-06-21				1			21-09-21							
	Iran																			2		28-09-21							
	Pakistan				7	8		24-09-21			8	19	1		28-04-21	5			3	22	35	09-11-21							
	Somalia																2	1				03-02-19							
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							
	Yemen					1		20-07-21																					
VDPV2	Egypt																			68	1	12-01-22							
	Pakistan																			2		06-12-21							

VDPV Isolates, EMR countries, 2021



Important links

EMR Polio Bulletin - Issue No. 1218, Week 05 (ending on 06/02/2022)

- [Global Polio Eradication Initiative](#)
- [IMST – Outbreak Response Dashboard](#)
- [nOPV2 Tracker](#)
- [Pol-MIS](#) (restricted to registered users)
- [Containment](#) (restricted to registered users)