

Highlights



Children
Paralyzed
by polio



Sewage
water
sampling

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

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

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

2022

- 12 cases of Wild Polio 1
 - 01 in Afghanistan
 - 11 in Pakistan

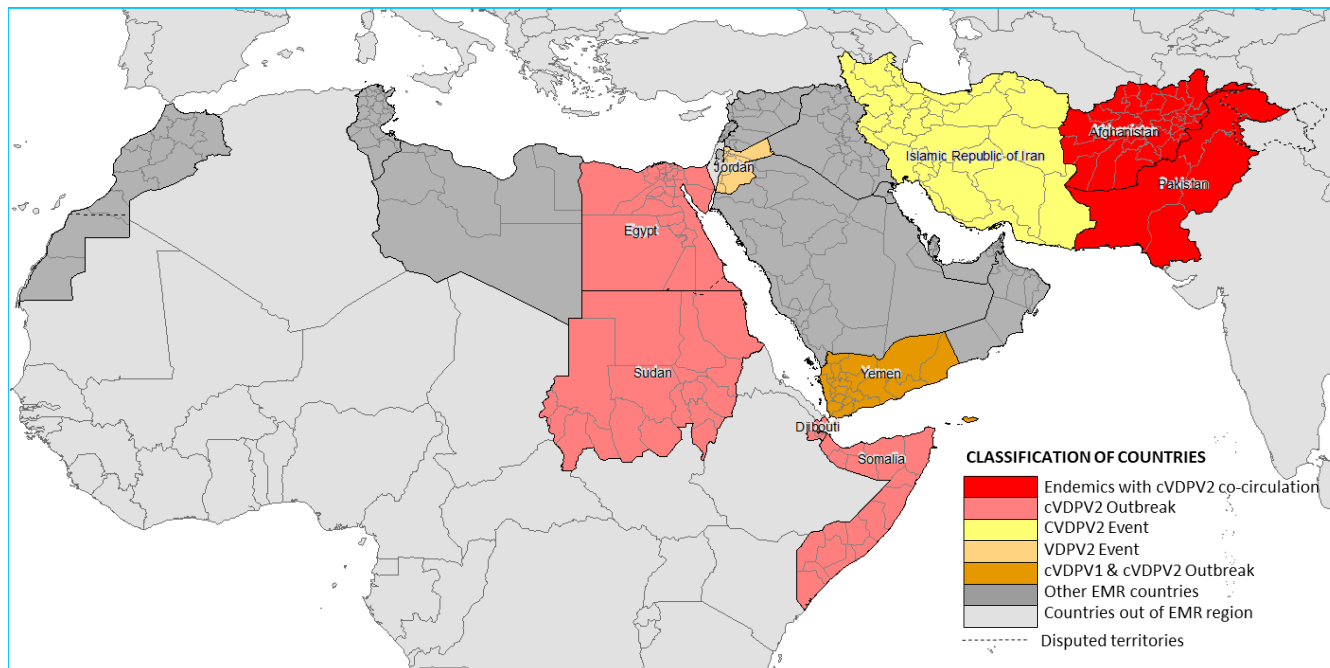
- 47 cases of cVDPV2
 - 02 in Somalia
 - 45 in Yemen

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

2022

- 04 sample Wild Polio 1
 - 01 in Afghanistan
 - 03 in Pakistan

- 19 samples of cVDPV2
 - 05 in Egypt
 - 11 in Djibouti
 - 02 Somalia

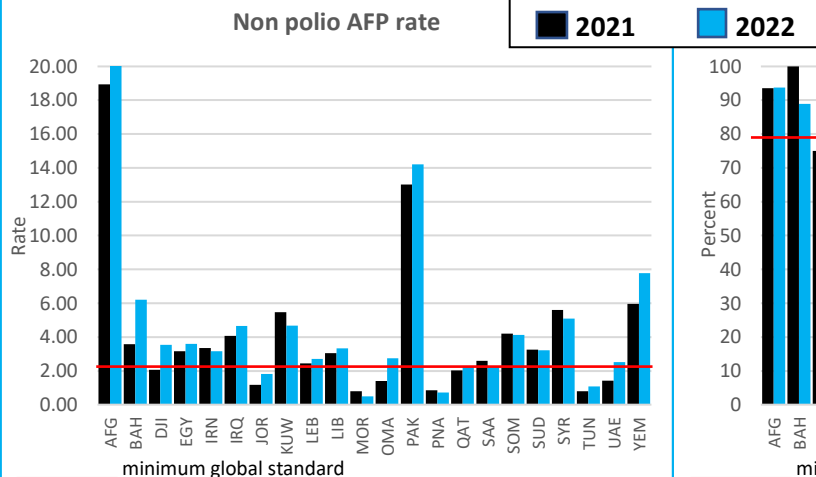


Highlights of the week

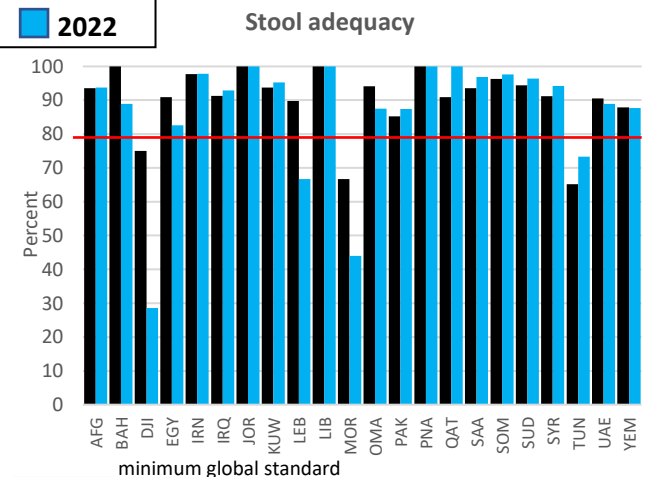
- One newly reported wild poliovirus (WPV1) case from Pakistan this week. The new WPV1 case is from Khyber Pakhtunkhwa (KP) province, North Waziristan district with onset on 9 June 2022. The WPV1 cases count in 2022 to date is 12 (1 from Afghanistan and 11 from Pakistan) with most recent onset on 9 June 2022.
- A wild poliovirus (WPV1) positive environmental sample was also reported this week from Pakistan, from Bannu district, KP province, with specimen collection on 20 May 2022.
- 7 new cVDPV2 isolates from environmental samples were reported this week as follows:
In 2021: 4 new cVDPV2 environmental samples from Yemen were reported with specimen collection dates in October/November 2021.
In 2022: 3 new cVDPV2 environmental samples – 2 from Djibouti and 1 from Somalia all with specimens' collection in April 2022.

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

Non polio AFP rate

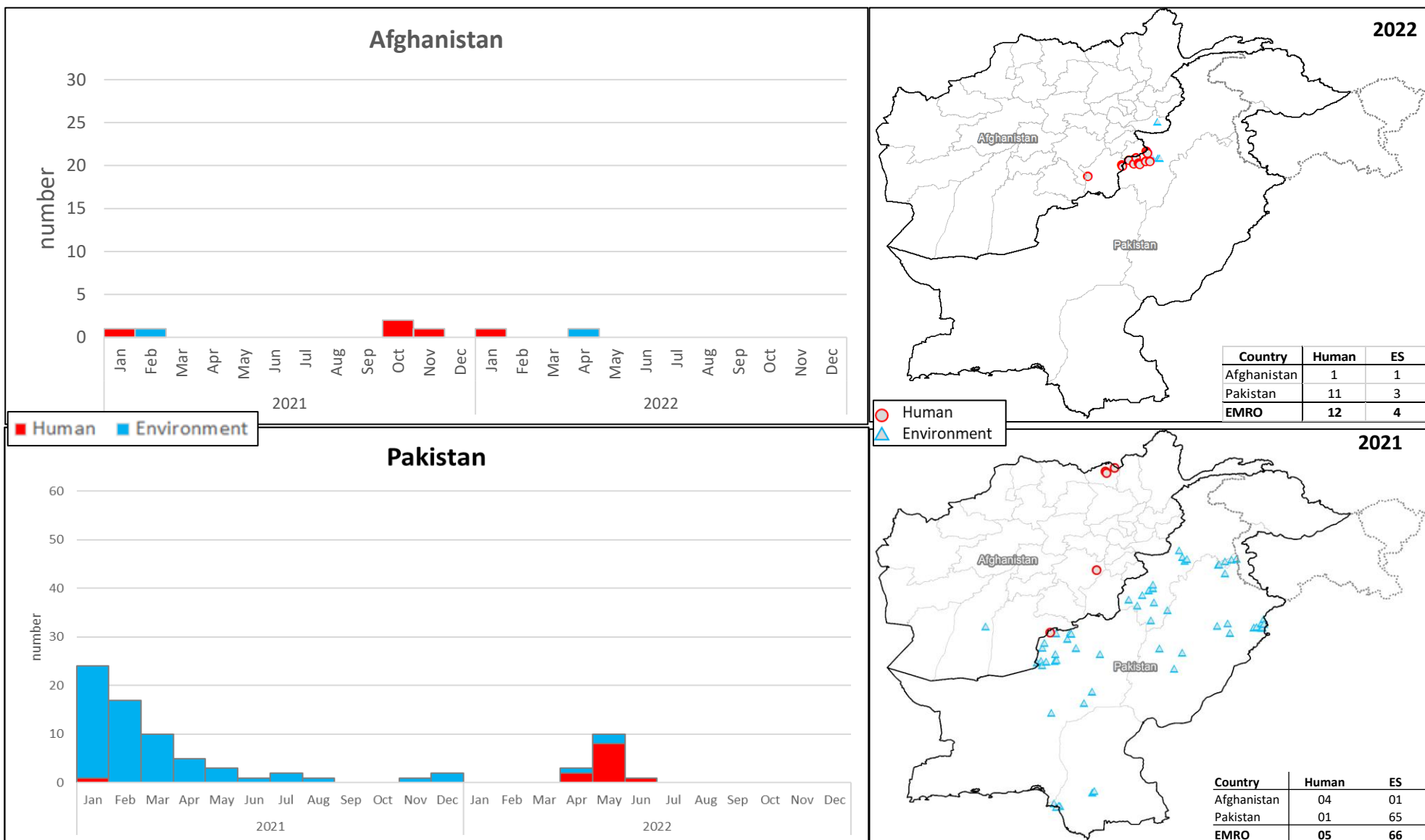


Stool adequacy






WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (Jun 26, 2021 to Jun 26, 2022)

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Source / Virus type 	AFG	DJI	PAK	EGY	IRN	JOR	SOM	YEM	Total
 Human (AFP only)	6		12				2	113	133
Wild	4		11						15
cVDPV2	1						2	110	113
aVDPV2	1		1						2
VDPV1									
VDPV2								3	3
 Environment	2	17	25	50	3	4	2	10	113
Wild	1		9						10
cVDPV2		17	2	6			1	10	36
aVDPV2	1		14		2				17
VDPV1				1					1
VDPV2				43	1	4	1		49
Total	8	17	37	50	3	4	4	123	246

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	12 June		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2021						2022						
			2021	2022	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Afghanistan	56	4	1	1	0	0	0	2	1	0	1	0	0	0			14-Jan-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	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			
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	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				
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	84	1	1	11	0	0	0	0	0	0	0	0	0	2	8	1	09-Jun-22
Palestine ****	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		
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				
Sudan	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					
Yemen	0	0	0	0	0	0	0	0	0	0	0						
EMR	140	5	2	12	0	0	0	2	1	0	1	0	0	2	8	1	09-Jun-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	% 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	4088	4	1	4038	45	0	0	18.92	93.52	2399	1	0	2099	1	27	0	22.88	93.71	26-Jun-22
BAHRAIN	11	0	0	11	0	0	0	3.58	100.00	9	0	0	3	0	0	0	6.20	88.89	26-Jun-22
DJIBOUTI	8	0	0	4	0	4	3	2.06	75.00	7	0	0	3	0	0	0	3.54	28.57	19-Jun-22
EGYPT	1251	0	0	1246	1	4	0	3.17	90.89	690	0	0	528	0	6	0	3.61	82.61	23-Jun-22
IRAN	681	0	0	680	1	0	0	3.36	97.65	311	0	0	277	0	0	0	3.16	97.75	25-Jun-22
IRAQ	709	0	0	709	0	0	0	4.08	91.26	392	0	0	319	0	30	0	4.65	92.86	11-Jun-22
JORDAN	47	0	0	47	0	0	0	1.19	100.00	37	0	0	33	0	0	0	1.83	100.00	12-Jun-22
KUWAIT	48	0	0	48	0	0	0	5.47	93.75	21	0	0	17	0	0	0	4.68	95.24	19-Jun-22
LEBANON	39	0	0	39	0	0	0	2.45	89.74	21	0	0	11	0	3	0	2.72	66.67	5-Jun-22
LIBYA	79	0	0	79	0	0	0	3.05	100.00	42	0	0	24	0	0	0	3.34	100.00	25-Jun-22
MOROCCO	78	0	0	78	0	0	0	0.80	66.67	25	0	0	6	0	10	3	0.49	44.00	3-Jun-22
OMAN	17	0	0	17	0	0	0	1.41	94.12	16	0	0	15	0	0	0	2.74	87.50	13-Jun-22
PAKISTAN	13119	1	4	13091	18	5	0	13.01	85.18	6953	11	0	6025	0	83	0	14.21	87.43	26-Jun-22
PALESTINE	16	0	0	16	0	0	0	0.85	100.00	7	0	0	3	0	3	0	0.72	100.00	12-Jun-22
QATAR	11	0	0	11	0	0	0	2.03	90.91	5	0	0	1	0	4	0	2.29	100.00	19-Jun-22
SAUDI ARABIA	217	0	0	217	0	0	0	2.59	93.55	94	0	0	56	0	0	0	2.24	96.81	26-Jun-22
SOMALIA	349	0	0	348	1	0	0	4.21	96.28	166	0	0	149	2	1	1	4.13	97.59	26-Jun-22
SUDAN	637	0	0	637	0	0	0	3.26	94.35	304	0	0	188	0	7	2	3.22	96.38	23-Jun-22
SYRIA	431	0	0	431	0	0	0	5.60	91.18	190	0	0	160	0	0	0	5.09	94.21	25-Jun-22
TUNISIA	23	0	0	23	0	0	0	0.81	65.22	15	0	0	11	0	0	0	1.08	73.33	24-Jun-22
U.A.E.	21	0	0	21	0	0	0	1.42	90.48	18	0	0	0	0	8	2	2.52	88.89	22-Jun-22
YEMEN	921	0	0	849	72	0	0	5.96	87.84	582	0	0	172	45	117	91	7.77	87.63	25-Jun-22
EMR POL	22801	5	5	22640	138	13	3	7.97	88.33	12304	12	0	10100	48	299	99	8.84	89.30	

* 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

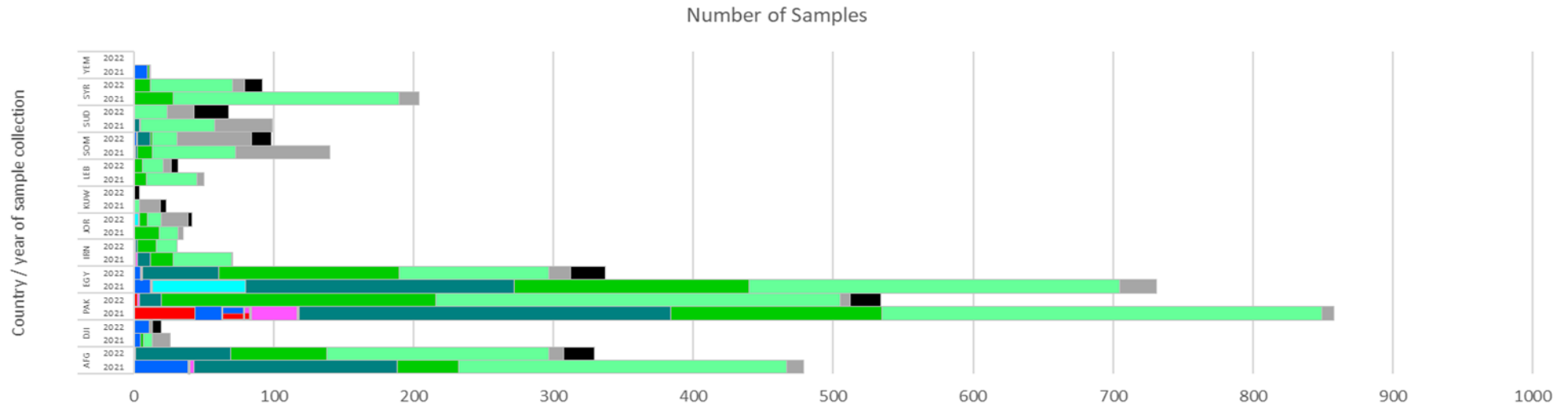
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Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators					Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV 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	VPV	Wild	Sabin	VPV	Wild	Sabin	VPV										
Afghanistan	RRL Pakistan	2353	147	23	397	1590	154	1	1	104			8			119					3	15%	95%	100%	99%	26-Jun-22	
Bahrain	NPL Oman / CDC	8				7	1															0%	100%		100%	22-Jun-22	
Djibouti	NPL Kenya / CDC	7	2		1	2		2								2						33%	0.4		33%	19-Jun-22	
Egypt***	RRL Egypt	659	17	2	73	492	59	16		6						12				3	1		11%	98%	100%	99%	23-Jun-22
Iran	NPL Iran / CDC	331	4		4	300	23			2	1					3						1%	100%	100%	98%	25-Jun-22	
Iraq	NPL Iraq, RRL Egypt	433	1		39	362	29	2								2						10%	100%	50%	100%	25-Jun-22	
Jordan	NPL Jordan, RRL Egypt	63	1		17	40	2	3								1						28%	100%	1	100%	26-Jun-22	
Kuwait	RRL Kuwait / RIVM	17	1			15		1		1						1		1	1			5%	100%	1	100%	26-Jun-22	
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	17				17																0%	100%			16-Jun-22	
Libya	RRL Tunisia / RIVM	43				38	5															0%	100%		100%	21-Jun-22	
Morocco	NPL Morocco, RRL Tunisia	26			3	20	3															12%	100%		91%	24-Jun-22	
Oman	NPL Oman / CDC	18			2	16																14%	78%		100%	22-Jun-22	
Pakistan	RRL Pakistan	6871	256	34	1104	4937	540	4	11*	133			1			215					9	13%	96%	100%	96%	26-Jun-22	
Palestine & UNRWA		7				7																0%	14%		86%	12-Jun-22	
Qatar	NPL Oman / CDC	5	1			4				1												0%	80%	0	100%	16-Jun-22	
Saudi Arabia	NPL Saudi Arabia / CDC	81			3	68		10														4%	83%		98%	5-Jun-22	
Somalia	NPL Kenya / CDC	157	4		30	110	2	14		2			4									21%	7%		99%	26-Jun-22	
Sudan	NPL Sudan / RRL Egypt	287			46	148	20	73														23%	74%		100%	16-Jun-22	
Syria	NPL Syria / RRL Egypt	162	2		10	143		7														5%	99%			16-Jun-22	
Tunisia	RRL Tunisia	16				13	3															0%	100%		92%	21-Jun-22	
U.A.E	NPL Oman / CDC	18				13	5															0%	100%		62%	22-Jun-22	
Yemen	NPL Oman, NPL Kenya, RRL Egypt	315	69		24	140		83		3		51		5		5					9	11%	66%	37%	0%	25-Jun-22	
Total EMR 2022		11894	505	59	1753	8482	846	216	12	252	1	51	13	5		360		1	4	1	21	13%	94%	92%	95%		
Total EMR 2021		22112	1183	128	3873	16915		9	5	478	7	14	363	103		599	1	1	7	2	2	14%	97%	97%	93%		

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

Environmental Surveillance Isolation by Classification

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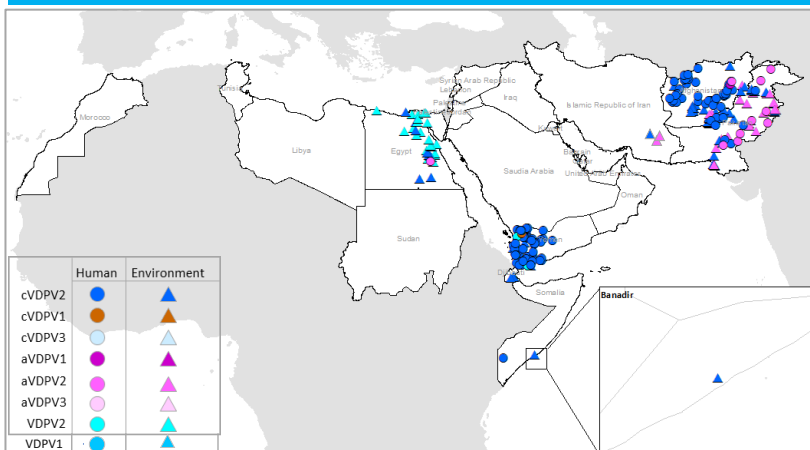


	AFG		DJI		PAK		EGY		IRN		JOR		KUW		LEB		SOM		SUD		SYR		YEM	
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
Wild		1			44	3																		
cVDPV2	39		5	11	19		12	5	1								1	2					10	
Wild+cVDPV2	1				16																			
Wild+aVDPV2					4																			
Wild+aVDPV3					1																			
aVDPV1																								
aVDPV2	3				33	1			2															
aVDPV3																								
VDPV1					1		1																	
VDPV2							67	1		1		4						1						
SL2	145	68			266	16	192	55	9	2							2	9	4					
SL1/3	44	69	2		151	196	168	129	16	13	18	6			9	6	10	1	1		28	12	1	
Entero	235	159	6		314	289	265	107	42	15	14	10	4		36	15	60	18	53	24	162	59	1	
Negative	12	10	13	2	9	7	26	15	1		3	19	15		5	6	67	53	41	19	14	8		
Pending		22		7		22		25				3	4	4		5		14		25		13		

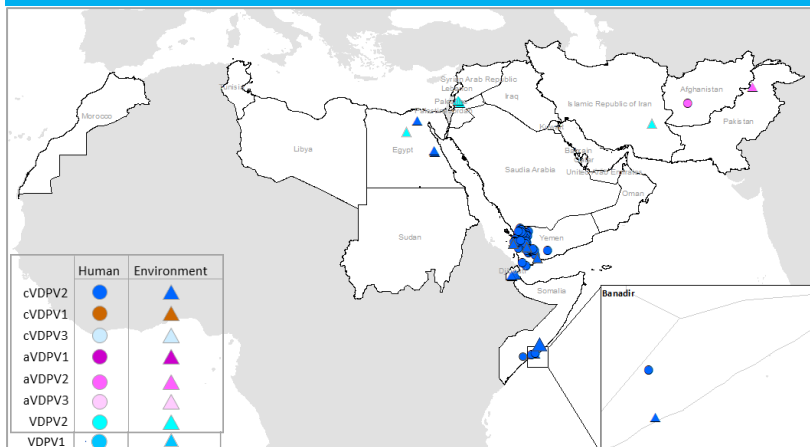
VDPVs isolations by Source and Country

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VDPV Isolates, EMR countries, 2021



VDPV Isolates, EMR countries, 2022



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	11	24-04-22								
	Egypt																		12	5		28-04-22								
	Iran																		3	1		20-02-21								
	Pakistan			22	135	8		23-04-21										38	135	35		11-08-21								
	Somalia	6	3	14	1	2	18-02-22		3	1	11		3	22-02-22	2	19	5	26	1	2	21-04-22				1	5		1	10-03-22	
	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					66	45	03-03-22					23	5	17-01-22				10			29-11-21									
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																						
	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			21-09-21								
	Iran																		2			23-09-21								
	Pakistan				7	8		24-09-21			8	19	1		28-04-21	5		3	22	37		06-12-21								
	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								

Important links

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