

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

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

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

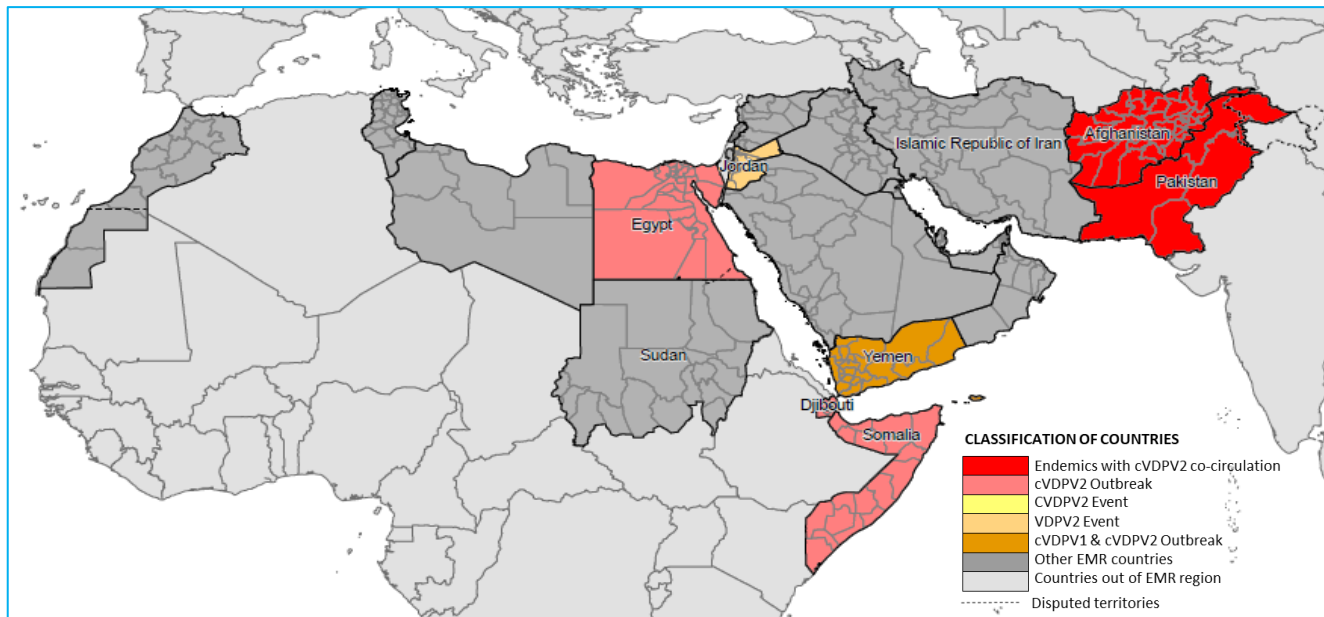
- 154 cases of cVDPV2
 - 04 in Somalia
 - 150 in Yemen

- Zero case of cVDPV1
(No cVDPV1 for the last 19 months)

2022

- 38 samples Wild Polio 1
 - 06 in Afghanistan
 - 32 in Pakistan

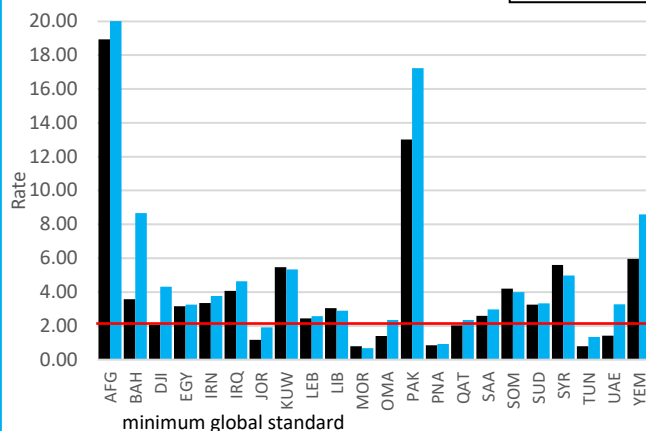
- 24 samples of cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 03 in Somalia
 - 03 in Yemen



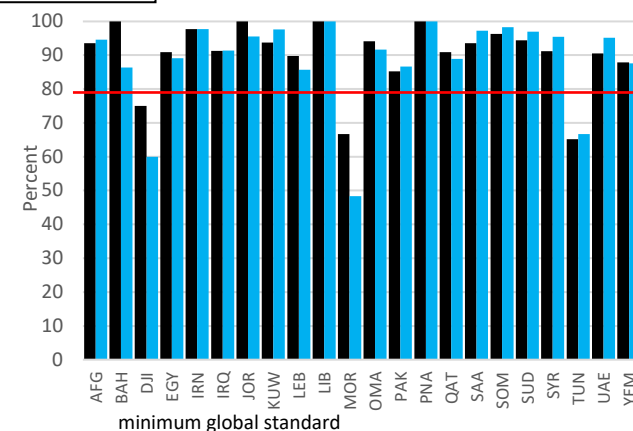
Highlights of the week

- No new Wild Poliovirus Type 1 (WPV1) cases were reported this week and the count remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- Two WPV1 positive environmental samples were reported this week from Afghanistan. Both samples had been collected on 19th October 2022 from Jalalabad district of Nangarhar province and Asadabad district of Kunar province.
- No new circulating vaccine derived poliovirus cases nor positive environmental samples reported this week and the count of cVDPV2 cases this year till date remains to be 154 cases (4 from Somalia and 150 from Yemen).
- A planned workshop on "Information for Action (IFA) Refresher Data Training (Group A)" involving surveillance and laboratory data managers from 11 countries from the region namely Afghanistan, Djibouti, Iran, Iraq, Jordan, Libya, Pakistan, Somalia, Sudan, Syria and Yemen is scheduled to take place next week in Tunis, Tunisia, from 14-16 November 2022.

Non polio AFP rate

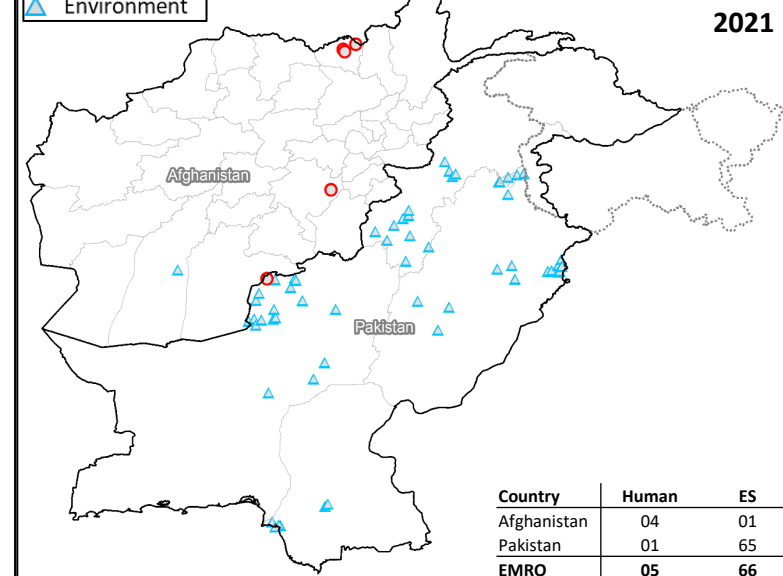
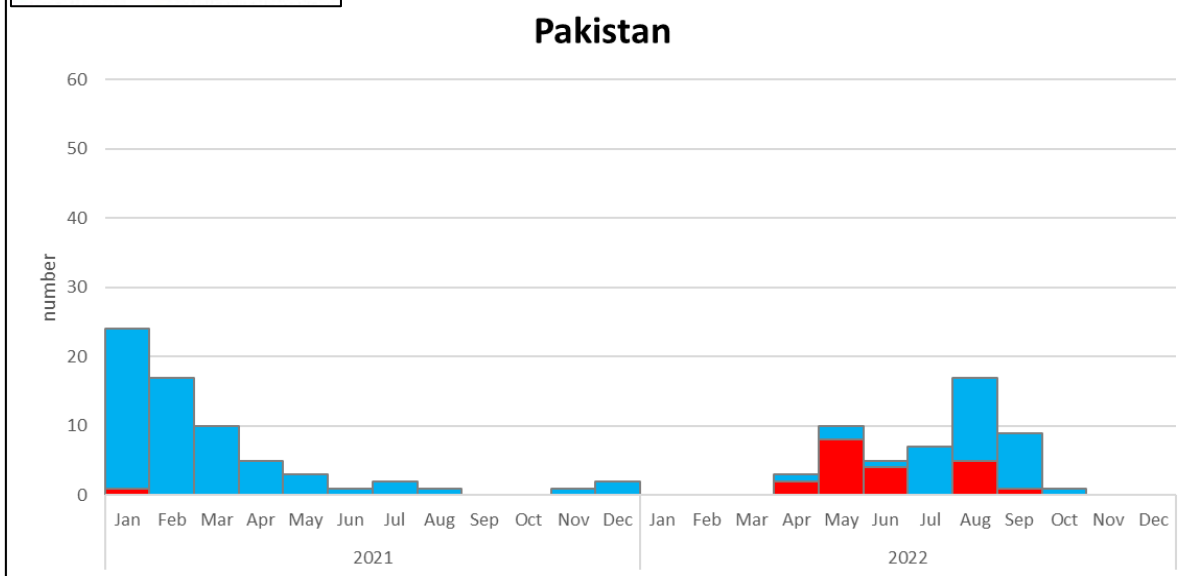
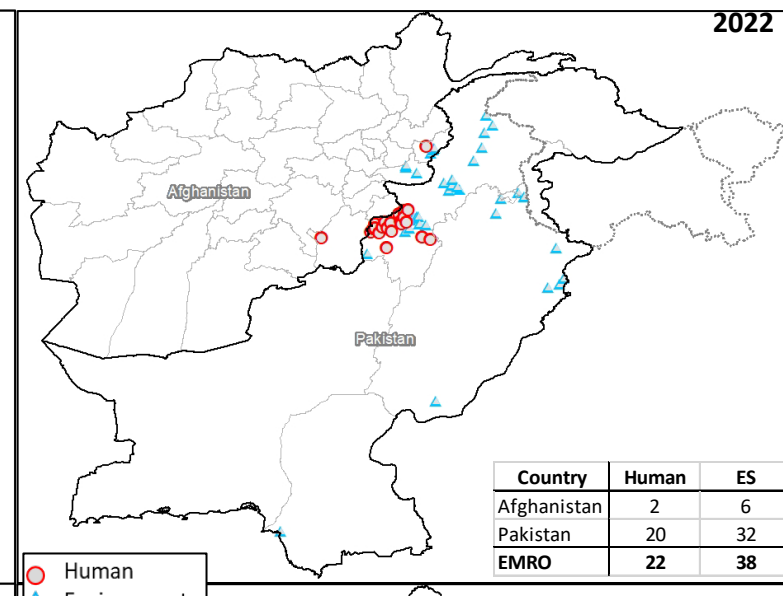
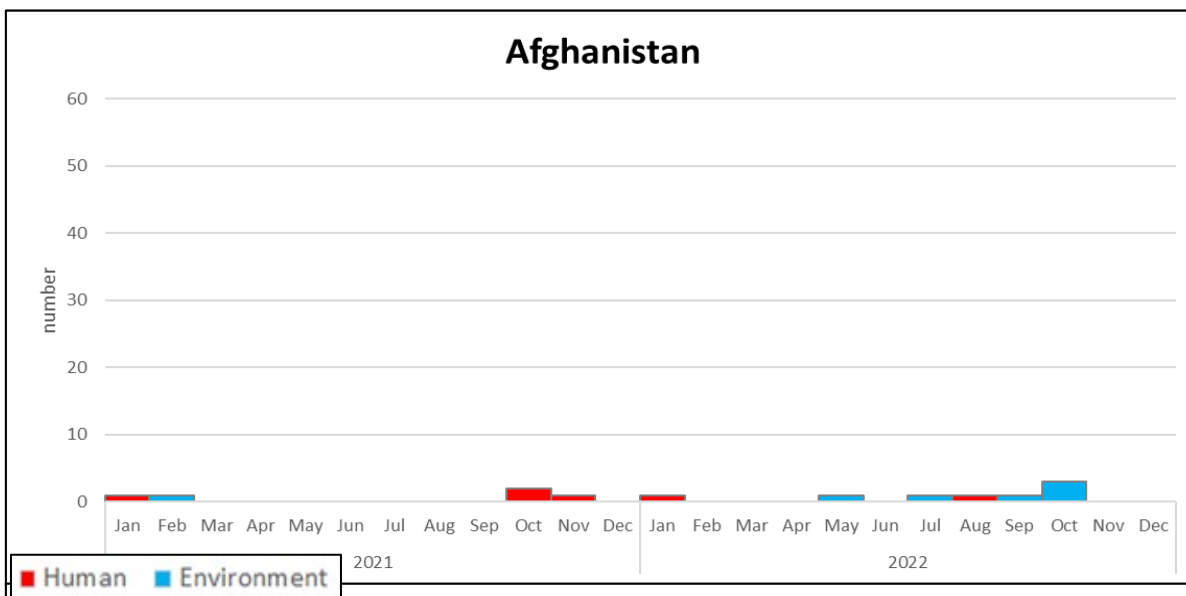


Stool adequacy




WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (Nov. 06, 2021 to Nov. 06, 2022)

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Source / Virus type 	AFG	DJI	PAK	EGY	IRN	JOR	SOM	YEM	Total
Human (AFP only)	4		20				4	194	222
Wild	3		20						23
cVDPV2							4	194	198
aVDPV2	1								1
VDPV2									
Environment	6	15	39	8	1	3	4	9	85
Wild	6		35						41
cVDPV2		15		7			3	9	34
aVDPV2			4						4
VDPV2				1	1	3	1		6
Total	10	15	59	8	1	3	8	203	307

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	6 Nov.		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2021	2022											
			2021	2022	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
Afghanistan	56	4	3	2	0	1	0	0	0	0	0	0	1	0			29-Aug-22
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	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	0			
Lebanon ****	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				
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			
Pakistan	84	1	1	20	0	0	0	0	2	8	4	0	5	1			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	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				
Tunisia	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	0					
EMR	140	5	4	22	0	1	0	0	2	8	4	0	6	1	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	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	4393	2	0	4129	1	44	0	23.94	94.56	6-Nov-22
BAHRAIN	11	0	0	11	0	0	0	3.58	100.00	22	0	0	9	0	1	0	8.66	86.36	6-Nov-22
DJIBOUTI	8	0	0	8	0	0	0	2.06	75.00	15	0	0	14	0	0	0	4.33	60.00	6-Nov-22
EGYPT	1251	0	0	1250	1	0	0	3.17	90.89	1089	0	0	988	0	16	0	3.25	89.07	3-Nov-22
IRAN	681	0	0	680	1	0	0	3.36	97.65	654	0	0	618	0	0	0	3.77	97.71	5-Nov-22
IRAQ	709	0	0	709	0	0	0	4.08	91.26	684	0	0	617	0	25	0	4.63	91.37	5-Nov-22
JORDAN	47	0	0	47	0	0	0	1.19	100.00	67	0	0	65	0	0	0	1.92	95.52	3-Nov-22
KUWAIT	48	0	0	48	0	0	0	5.47	93.75	42	0	0	35	0	0	0	5.35	97.62	6-Nov-22
LEBANON	39	0	0	39	0	0	0	2.45	89.74	35	0	0	27	0	6	0	2.59	85.71	5-Nov-22
LIBYA	79	0	0	79	0	0	0	3.05	100.00	64	0	0	58	0	2	2	2.91	100.00	1-Oct-22
MOROCCO	78	0	0	78	0	0	0	0.80	66.67	60	0	0	28	0	21	1	0.70	48.33	20-Oct-22
OMAN	17	0	0	17	0	0	0	1.41	94.12	24	0	0	23	0	0	0	2.35	91.67	6-Nov-22
PAKISTAN	13118	1	4	13095	18	0	0	13.01	85.19	14775	20	1	13549	0	221	0	17.24	86.61	6-Nov-22
PALESTINE	16	0	0	16	0	0	0	0.85	100.00	16	0	0	8	0	1	0	0.94	100.00	6-Nov-22
QATAR	11	0	0	11	0	0	0	2.03	90.91	9	0	0	8	0	0	0	2.35	88.89	6-Nov-22
SAUDI ARABIA	217	0	0	217	0	0	0	2.59	93.55	218	0	0	141	0	0	0	2.98	97.25	6-Nov-22
SOMALIA	349	0	0	348	1	0	0	4.21	96.28	282	0	0	252	4	0	0	3.99	98.23	6-Nov-22
SUDAN	636	0	0	636	0	0	0	3.26	94.34	552	0	0	483	0	4	0	3.34	96.92	3-Nov-22
SYRIA	431	0	0	431	0	0	0	5.60	91.18	325	0	0	311	0	0	0	4.98	95.38	5-Nov-22
TUNISIA	23	0	0	23	0	0	0	0.81	65.22	33	0	0	28	0	1	0	1.35	66.67	4-Nov-22
U.A.E.	21	0	0	21	0	0	0	1.42	90.48	41	0	0	0	0	28	0	3.27	95.12	1-Nov-22
YEMEN	921	0	0	849	72	0	0	5.96	87.84	1125	0	0	756	150	12	2	8.58	87.56	5-Nov-22
EMR POL	22799	5	5	22651	138	0	0	7.97	88.33	24525	22	1	22147	155	382	5	10.06	89.16	

* 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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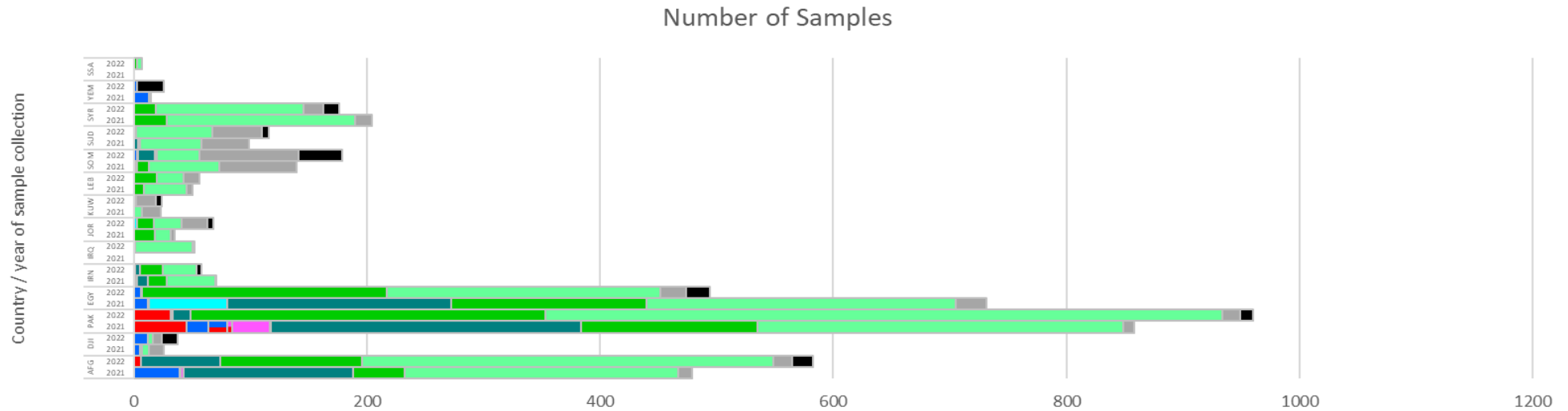
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results												Indicators				Latest report Date	
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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	4336	251	39	782	3104	132	2	2	187			8			215					3	16%	97%	100%	99%	6-Nov-22
Bahrain	NPL Oman / CDC	15			1	14																6%	93%		93%	3-Nov-22
Djibouti	NPL Kenya / CDC	15	2		4	8		1		2			2			2						29%	71%		71%	6-Nov-22
Egypt***	RRL Egypt	1077	19	5	153	813	59	28		8						14			4	1		13%	95%	100%	99%	3-Nov-22
Iran	NPL Iran / CDC	679	11		8	638	21	1		4	1					8						1%	100%	100%	99%	5-Nov-22
Iraq	NPL Iraq, RRL Egypt	685	3		57	597	25	3								3					2	9%	100%	67%	99%	5-Nov-22
Jordan	NPL Jordan, RRL Egypt	67	3		14	45	1	4								3						25%	98%	1	100%	6-Nov-22
Kuwait	RRL Kuwait / RIVM	43	2			34	1	6		1						1		1	1		1	2%	100%	1	100%	3-Nov-22
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	33	1			31	1															0%	100%			3-Nov-22
Libya	RRL Tunisia / RIVM	72			2	66	1	3														3%	100%		100%	29-Oct-22
Morocco	NPL Morocco, RRL Tunisia	55			4	48	3															8%	100%		92%	4-Nov-22
Oman	NPL Oman / CDC	27			4	22	1															14%	81%		100%	3-Nov-22
Pakistan	RRL Pakistan	14448	364	50	2638	10805	540	9	17 *	205			1			306					1	16%	97%	100%	97%	6-Nov-22
Palestine & UNRWA		16				13	3															0%	38%		92%	6-Nov-22
Qatar	NPL Oman / CDC	9	1			7	1			1												0%	88%	0	100%	3-Nov-22
Saudi Arabia	NPL Saudi Arabia / CDC	173	3		3	164		3		1						2						2%	91%	33%	98%	23-Oct-22
Somalia	NPL Kenya / CDC	282	10	1	50	200	3	23		2			9	4								20%	6%		87%	6-Nov-22
Sudan	NPL Sudan / RRL Egypt	540	8		135	372	15	10										1				26%	74%	100%	22%	29-Oct-22
Syria	NPL Syria / RRL Egypt	314	2		22	282	8															6%	100%			3-Nov-22
Tunisia	RRL Tunisia	35				33	1	1														1%	100%		94%	29-Oct-22
U.A.E	NPL Oman / CDC	42			1	33	8															1%	74%		62%	3-Nov-22
Yemen	NPL Oman, NPL Kenya, RRL Egypt	968	174	5	154	577		60		9			8	146 **		21		11	1	1	1	16%	27%	35%	5%	5-Nov-22
Total EMR 2022		23931	854	100	4032	17906	824	154	22	420	1		28	154		575		12	7	2	8	15%	93%	87%	93%	
Total EMR 2021		22113	1183	128	3874	16919		5	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

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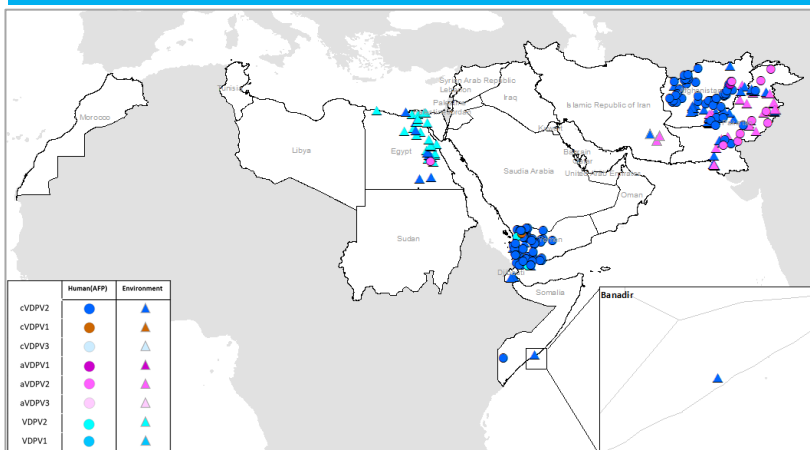


	AFG		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SOM		SUD		SYR		YEM		SSA	
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
Wild		6			45	32																						
cVDPV2	39		5	12	19		12	6	1										1	3					13	3		
Wild+cVDPV2	1				16																							
Wild+aVDPV2					4																							
Wild+aVDPV3																												
aVDPV1																												
aVDPV2	3				33	1			2																			
aVDPV3																												
VDPV1					1		1																					
VDPV2							67	1		1				3						1								
SL2	145	68			266	16	192		9	4									2	14	4							
SL1/3	44	122	2		151	304	168	210	16	20		1	18	14			9	20	10	2	1	2	28	19	1		3	
Entero	235	353	6	4	314	581	265	235	42	29		49	14	24	7	2	36	23	60	36	53	65	162	127	1		4	
Negative	12	16	13	8	9	15	26	22	1				3	22	16	17	5	13	67	85	41	43	14	17				
Pending		18		14		11		20		4		2		5		5				38		6		13		23		

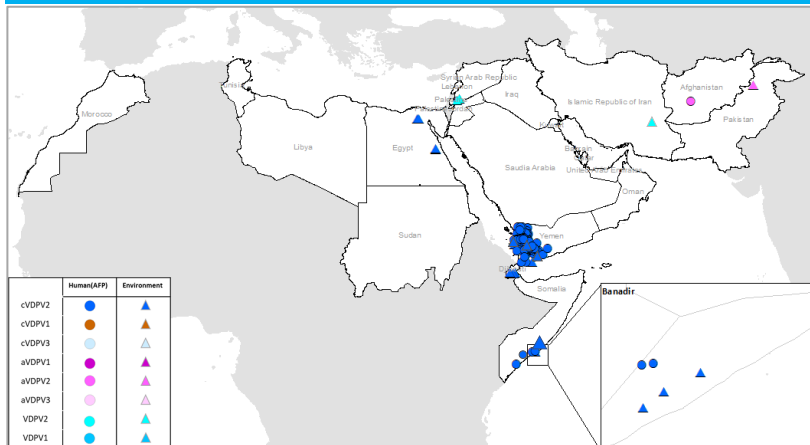
VDPVs isolations by Source and Country

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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	Most recent	2017	2018	2019	2020	2021	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		18-12-20				18		08-10-20				14		09-11-20					4			24-08-20	
	Syria	74					21-09-17	63					12-09-17								4						20-08-17	
Yemen				66	150	25-08-22				23	36	05-08-22					13	3	31-01-22									
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									

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)