

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

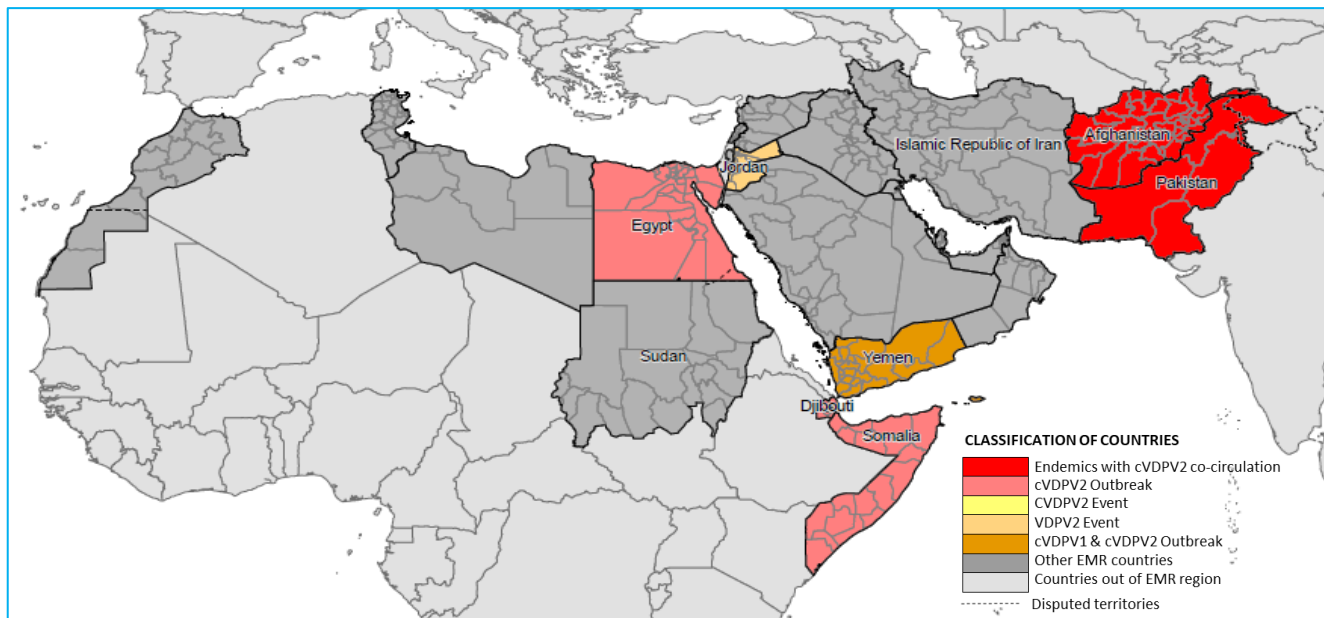
- 154 cases of cVDPV2
 - 04 in Somalia
 - 150 in Yemen

- Zero case of cVDPV1
(No cVDPV1 for the last 18 months)

2022

- 36 samples Wild Polio 1
 - 04 in Afghanistan
 - 32 in Pakistan

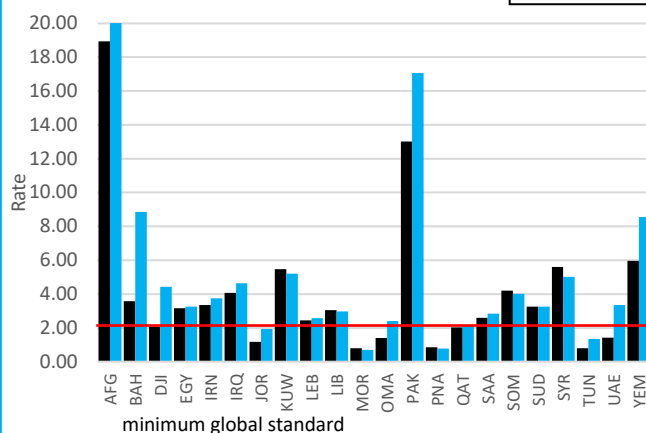
- 24 samples of cVDPV2
 - 06 in Egypt
 - 12 in Djibouti
 - 03 in Somalia
 - 03 in Yemen



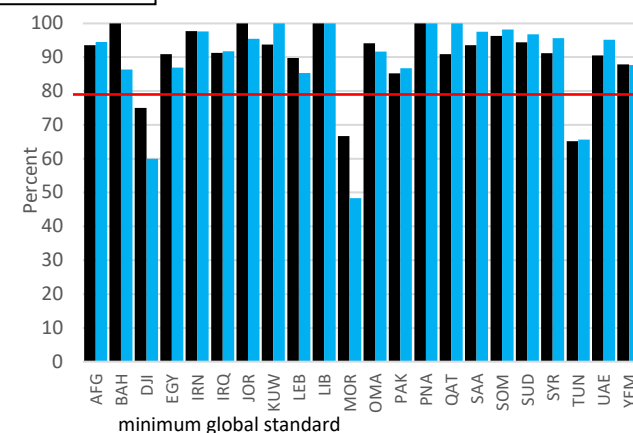
Highlights of the week

- 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).
- One WPV1 positive environmental sample was reported this week from Pakistan. Sample had been collected on 3rd October 2022 from Bannu district of Khyber Pakhtunkhwa province.
- No new circulating vaccine derived poliovirus cases or 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).
- The World Health Summit took place in Berlin on 18th October 2022. The global leaders confirmed \$2.6 billion in funding toward the Global Polio Eradication Initiative's (GPEI) 2022-2026 Strategy to end polio at a pledging moment co-hosted by Germany's Federal Ministry for Economic Cooperation and Development (BMZ).
- On 24 October, the WHO Eastern Mediterranean Region marked the World Polio Day 2022: "Together We End Polio". The Polio Director for WHO EMR, Dr Hamid Jafari, thanked health workers and donors, and called on all actors to do their part to end polio in the region. You can read Dr Hamid Jafari's message here: [WHO EMRO | World Polio Day 2022: Stronger together to end polio globally](#) | News | Polio Eradication

Non polio AFP rate

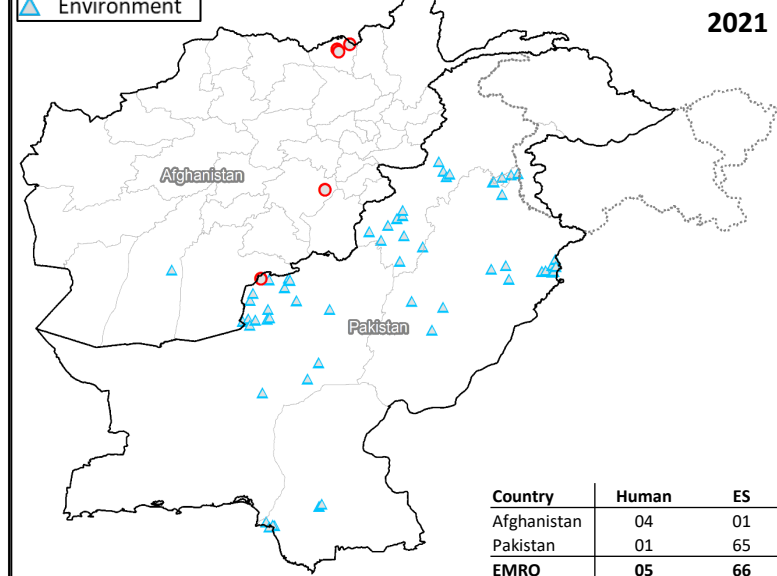
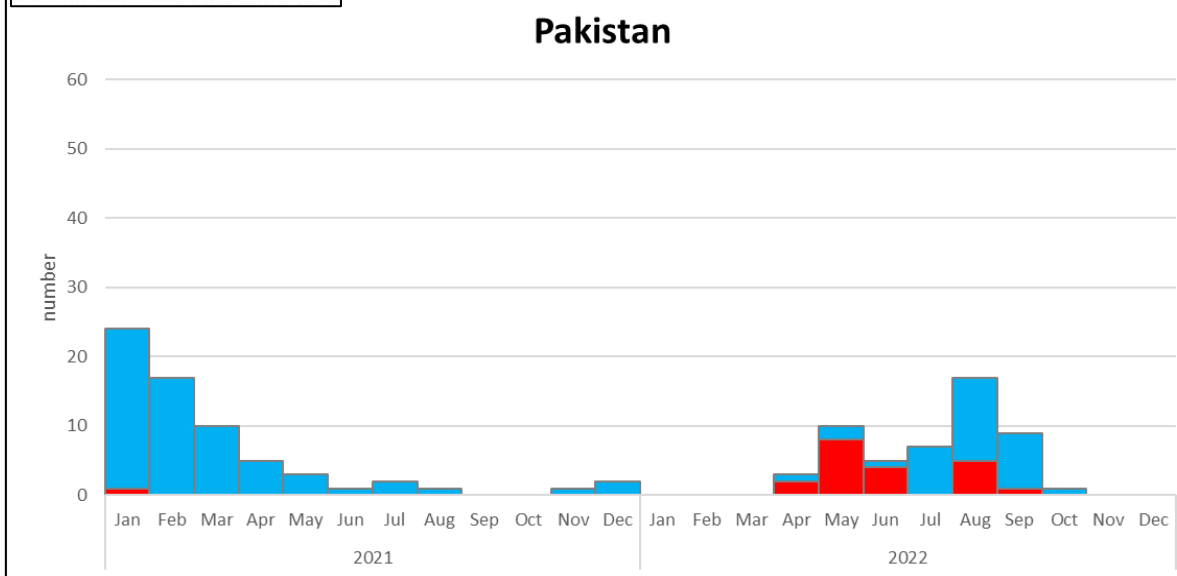
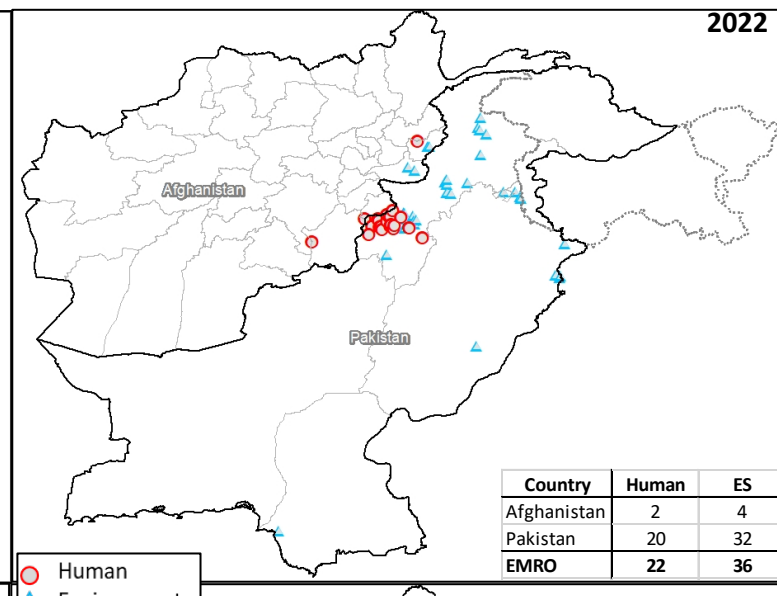
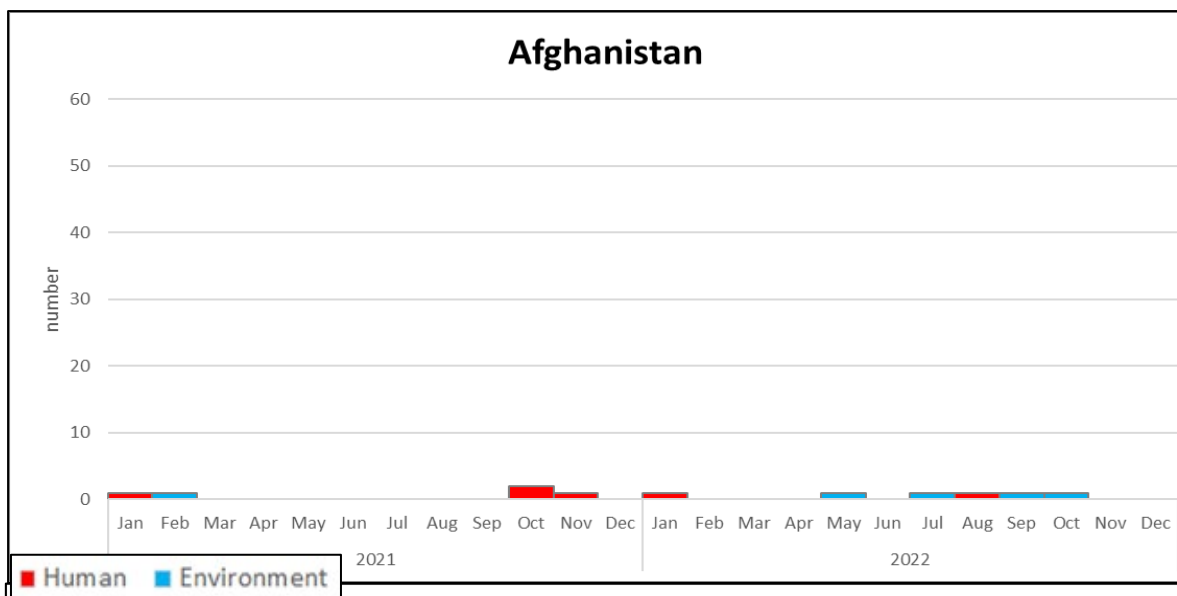


Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source


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For further details on Wild Poliovirus click: [line-list of WPV isolates](#)

Virus isolation by country, last 12 months (Oct. 30, 2021 to Oct. 30, 2022)

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Source / Virus type 	AFG	DJI	PAK	EGY	IRN	JOR	SOM	YEM	Total
Human (AFP only)	4		20				4	197	225
Wild	3		20						23
cVDPV2							4	196	200
aVDPV2	1							1	2
VDPV2									
Environment	4	15	39	9	1	4	4	10	86
Wild	4		35						39
cVDPV2		15		7			3	10	35
aVDPV2			4						4
VDPV2				2	1	4	1		8
Total	8	15	59	9	1	4	8	207	311

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 Oct.		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2021		2022										
			2021	2022	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Afghanistan	56	4	1	2	1	0	1	0	0	0	0	0	0	1			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	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	0		
Jordan ****	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		
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			
Morocco	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		
Pakistan	84	1	1	20	0	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	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	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	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						
Yemen	0	0	0	0	0	0	0	0	0	0	0	0	0				
EMR	140	5	2	22	1	0	1	0	0	2	8	4	0	6	1	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 <div>●</div>	Polio Compatible	Discarded (non Polio AFP)	VDPV <div>●●●</div>	Pending classification > 90 days from onset	Pending LAB classification > 90 days from onset	Annualized Non polio AFP rate	% with adequate specimens <div>●●●</div>		Total Confirmed WPV1 Polio Cases <div>●</div>	Polio Compatible	Discarded (non polio AFP)	VDPV <div>●●●●</div>	Pending classification > 90 days from onset	Pending LAB classification > 90 days from onset	Annualized Non polio AFP rate <div>●●●</div>	% with adequate specimens <div>●●●</div>	
AFGHANISTAN	4088	4	1	4038	45	0	0	18.92	93.52	4279	2	0	4000	1	40	0	23.86	94.44	30-Oct-22
BAHRAIN	11	0	0	11	0	0	0	3.58	100.00	22	0	0	9	0	0	0	8.86	86.36	30-Oct-22
DJIBOUTI	8	0	0	8	0	0	0	2.06	75.00	15	0	0	14	0	0	0	4.43	60.00	30-Oct-22
EGYPT	1251	0	0	1250	1	0	0	3.17	90.89	1065	0	0	944	0	21	0	3.25	86.95	26-Oct-22
IRAN	681	0	0	680	1	0	0	3.36	97.65	635	0	0	592	0	0	0	3.76	97.64	29-Oct-22
IRAQ	709	0	0	709	0	0	0	4.08	91.26	669	0	0	600	0	29	0	4.63	91.78	29-Oct-22
JORDAN	47	0	0	47	0	0	0	1.19	100.00	66	0	0	65	0	0	0	1.93	95.45	27-Oct-22
KUWAIT	48	0	0	48	0	0	0	5.47	93.75	40	0	0	35	0	0	0	5.21	100.00	30-Oct-22
LEBANON	39	0	0	39	0	0	0	2.45	89.74	34	0	0	20	0	6	0	2.57	85.29	14-Oct-22
LIBYA	79	0	0	79	0	0	0	3.05	100.00	64	0	0	58	0	2	2	2.97	100.00	1-Oct-22
MOROCCO	78	0	0	78	0	0	0	0.80	66.67	60	0	0	28	0	20	1	0.71	48.33	20-Oct-22
OMAN	17	0	0	17	0	0	0	1.41	94.12	24	0	0	23	0	0	0	2.40	91.67	30-Oct-22
PAKISTAN	13118	1	4	13095	18	0	0	13.01	85.19	14303	20	1	13194	0	181	0	17.07	86.75	29-Oct-22
PALESTINE	16	0	0	16	0	0	0	0.85	100.00	13	0	0	7	0	2	0	0.78	100.00	23-Oct-22
QATAR	11	0	0	11	0	0	0	2.03	90.91	8	0	0	6	0	0	0	2.14	100.00	23-Oct-22
SAUDI ARABIA	217	0	0	217	0	0	0	2.59	93.55	204	0	0	137	0	0	0	2.85	97.55	30-Oct-22
SOMALIA	349	0	0	348	1	0	0	4.21	96.28	277	0	0	215	4	0	0	4.01	98.19	30-Oct-22
SUDAN	636	0	0	636	0	0	0	3.26	94.34	526	0	0	483	0	5	0	3.25	96.77	29-Oct-22
SYRIA	431	0	0	431	0	0	0	5.60	91.18	320	0	0	286	0	0	0	5.01	95.63	29-Oct-22
TUNISIA	23	0	0	23	0	0	0	0.81	65.22	32	0	0	27	0	1	0	1.34	65.63	28-Oct-22
U.A.E.	21	0	0	21	0	0	0	1.42	90.48	41	0	0	0	0	27	3	3.35	95.12	25-Oct-22
YEMEN	921	0	0	849	72	0	0	5.96	87.84	1095	0	0	713	150	4	0	8.55	87.67	27-Oct-22
EMR POL	22799	5	5	22651	138	0	0	7.97	88.33	23792	22	1	21456	155	338	6	9.99	89.15	

* 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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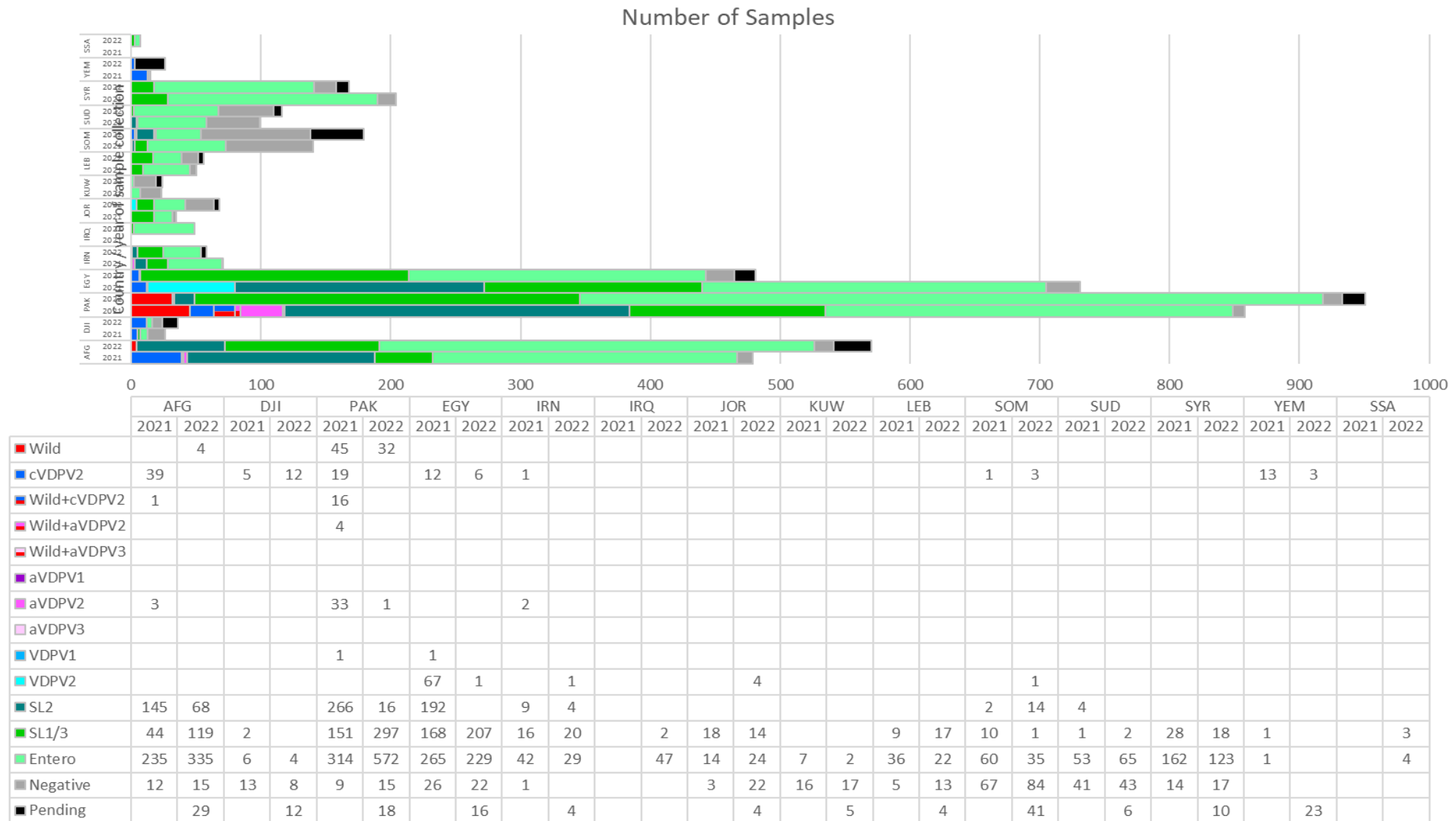
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results														Indicators				Latest report Date
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			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	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild									Sabin	
Afghanistan	RRL Pakistan	4124	244	38	746	2922	2	95	2	177			8			207					7	16%	96%	100%	99%	30-Oct-22	
Bahrain	NPL Oman / CDC	15			1	14																6%	93%		93%	27-Oct-22	
Djibouti	NPL Kenya / CDC	15	2		4	8		1		2			2			2						29%	71%		71%	30-Oct-22	
Egypt***	RRL Egypt	1044	19	5	153	813	52	2		8						14			4	1		13%	95%	100%	99%	27-Oct-22	
Iran	NPL Iran / CDC	649	11		6	609	17	6		4	1					8						1%	100%	100%	99%	29-Oct-22	
Iraq	NPL Iraq, RRL Egypt	670	3		57	584	24	2								3					2	9%	100%	67%	99%	27-Oct-22	
Jordan	NPL Jordan, RRL Egypt	66	3		14	44	1	4								3						25%	100%	1	100%	30-Oct-22	
Kuwait	RRL Kuwait / RIVM	42	2			34	2	4		1						1		1	1		1	2%	100%	1	100%	27-Oct-22	
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	32	1			27		4														0%	100%			19-Oct-22	
Libya	RRL Tunisia / RIVM	68			2	64		2														3%	100%		100%	29-Oct-22	
Morocco	NPL Morocco, RRL Tunisia	56			4	46	6															8%	100%		92%	28-Oct-22	
Oman	NPL Oman / CDC	27			4	22	1															14%	81%		100%	27-Oct-22	
Pakistan	RRL Pakistan	13630	358	49	2505	10090	141	467	17*	199			1			300						16%	97%	100%	97%	30-Oct-22	
Palestine & UNRWA		13				12		1														0%	33%		92%	23-Oct-22	
Qatar	NPL Oman / CDC	8	1			7				1												0%	88%	0	100%	27-Oct-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	276	10	1	42	166	2	55		2			9	4								20%	7%		99%	30-Oct-22	
Sudan	NPL Sudan / RRL Egypt	525	8		134	359	13	11										1				26%	73%	100%	22%	29-Oct-22	
Syria	NPL Syria / RRL Egypt	299	2		17	261	3	16														5%	100%			19-Oct-22	
Tunisia	RRL Tunisia	33				31		2														1%	100%		94%	29-Oct-22	
U.A.E	NPL Oman / CDC	41			1	33	7															1%	74%		62%	27-Oct-22	
Yemen	NPL Oman, NPL Kenya, RRL Egypt	934	172	5	140	542		76		9			8	146**		21		5	1	1	5	16%	29%	34%	6%	29-Oct-22	
Total EMR 2022		22740	839	98	3833	16852	271	751	22	404	1		28	154		561		6	7	2	15	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

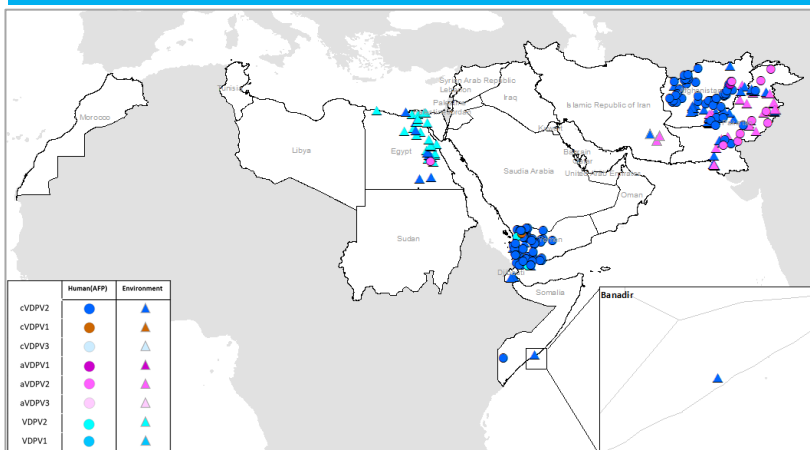
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VDPVs isolations by Source and Country

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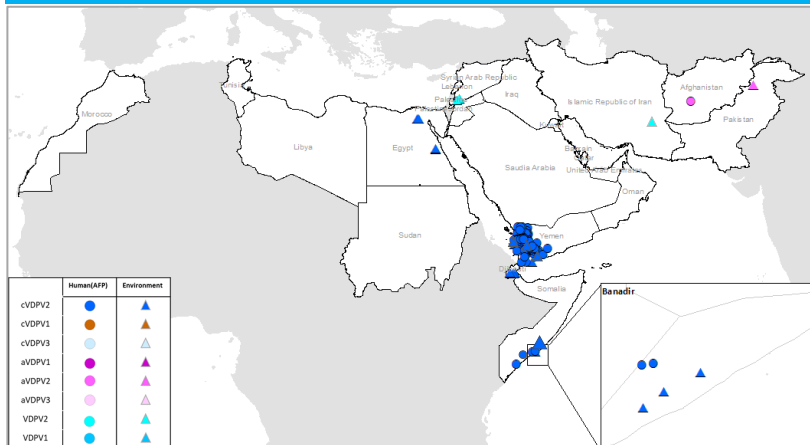
VDPV Isolates, EMR countries, 2021



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			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																					
aVDPV2	Yemen					1		20-07-21																					
	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							
aVDPV3	Yemen					3		01-11-21				1		09-12-21															
	Afghanistan				1			23-06-20																					
	Egypt																	2				30-09-20							
	Pakistan																		1			05-04-21							
VDPV1	Libya				1			15-01-20																					
	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							

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)