

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

- 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

- 16 cases of Wild Polio 1
 - 01 in Afghanistan
 - 15 in Pakistan

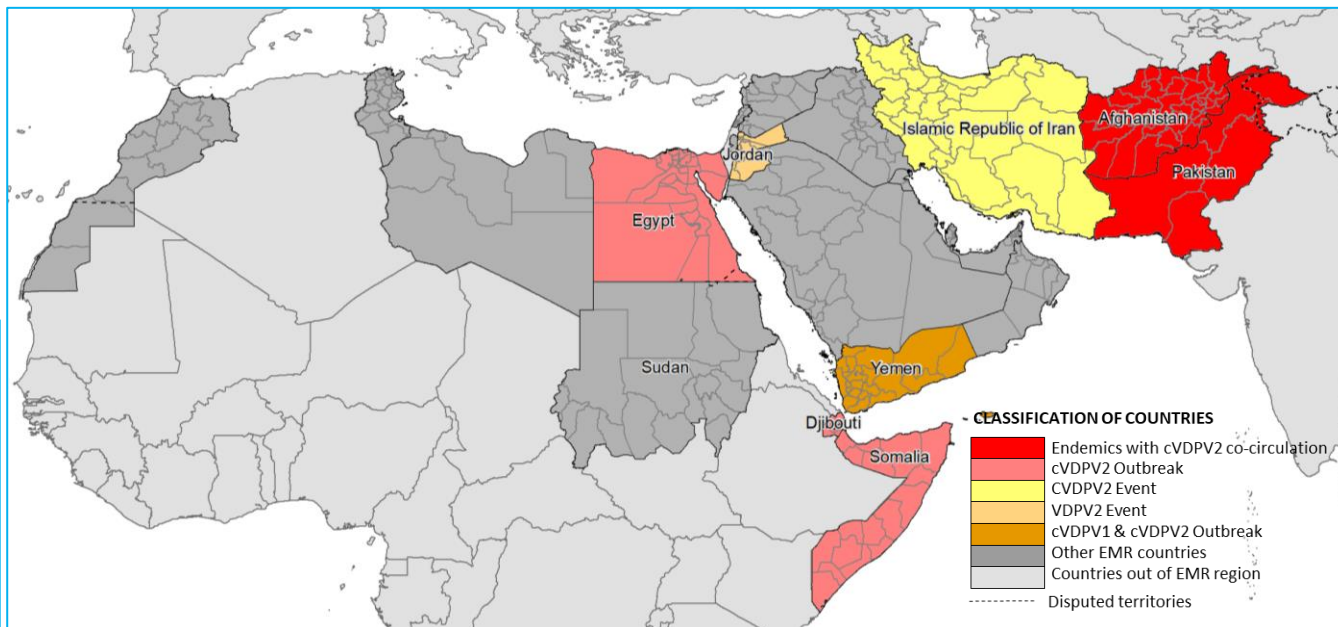
- 120 cases of cVDPV2
 - 03 in Somalia
 - 117 in Yemen

- Zero case of cVDPV1
(No cVDPV1 for the last 17 months)

2022

- 18 samples Wild Polio 1
 - 02 in Afghanistan
 - 16 in Pakistan

- 18 samples of cVDPV2
 - 05 in Egypt
 - 12 in Djibouti
 - 03 in Somalia
 - 03 in Yemen



Highlights of the week

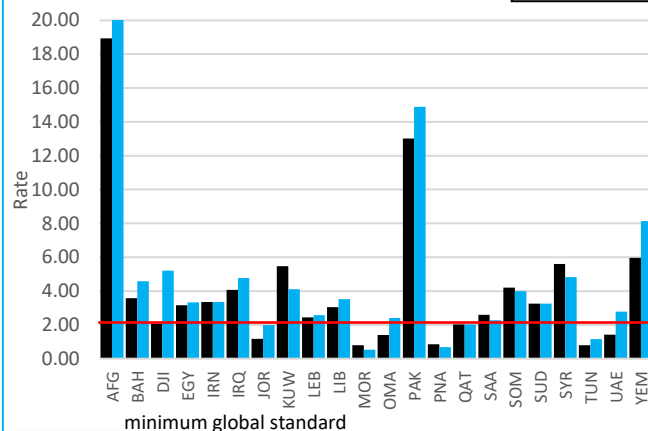
Pakistan:

- One new WPV1 case reported this week from North Waziristan district, Khyber Pakhtunkhwa province, with date of onset 1st August 2022.
- Three new WPV1 positive environmental samples reported from Bannu, Peshawar districts of Khyber Pakhtunkhwa and Lahore district of Punjab provinces, with specimens' collection dates of 10th of August 2022 for Banuu and 11th of August 2022 for both Peshawar and Lahore.

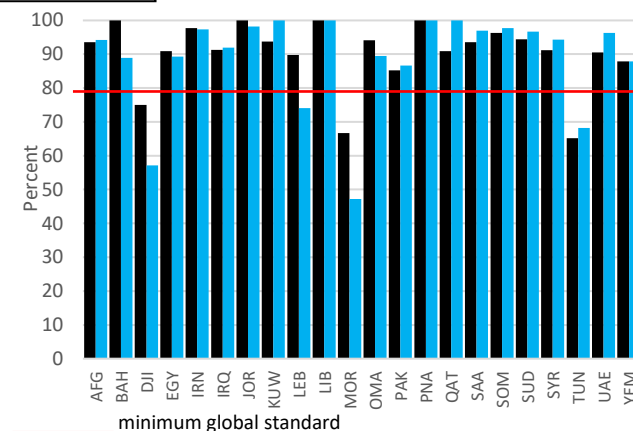
Yemen:

- Eight new cVDPV2 cases reported from 05 provinces: Ibb (03); Dhamar (02); and one from each of Albaidah, AlMahaweeet and Taiz. The dates of onset ranges between 19th February – 3rd June 2022.
- Seven cVDPV2 contacts reported from 04 provinces: Albaidah (3), Al Jawf (2), and one from each of Hajjah and Taiz. The dates of stool collection ranges between 27th January – 2nd March 2022.

Non polio AFP rate

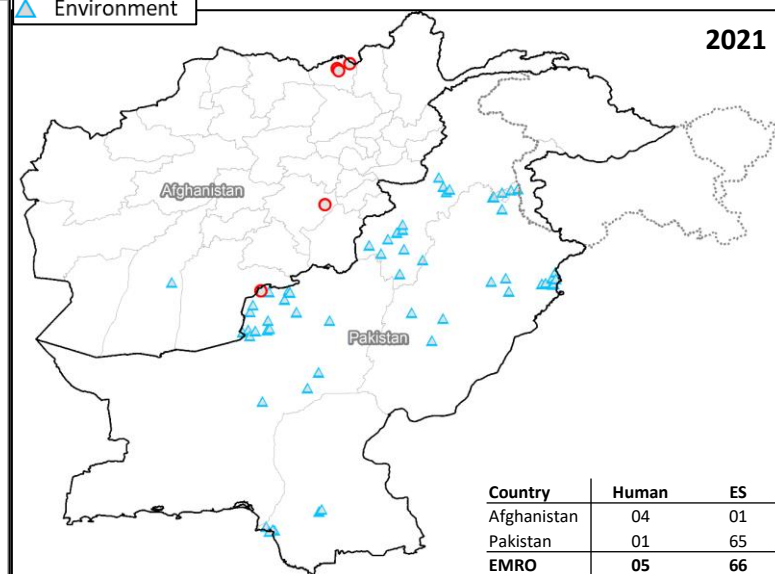
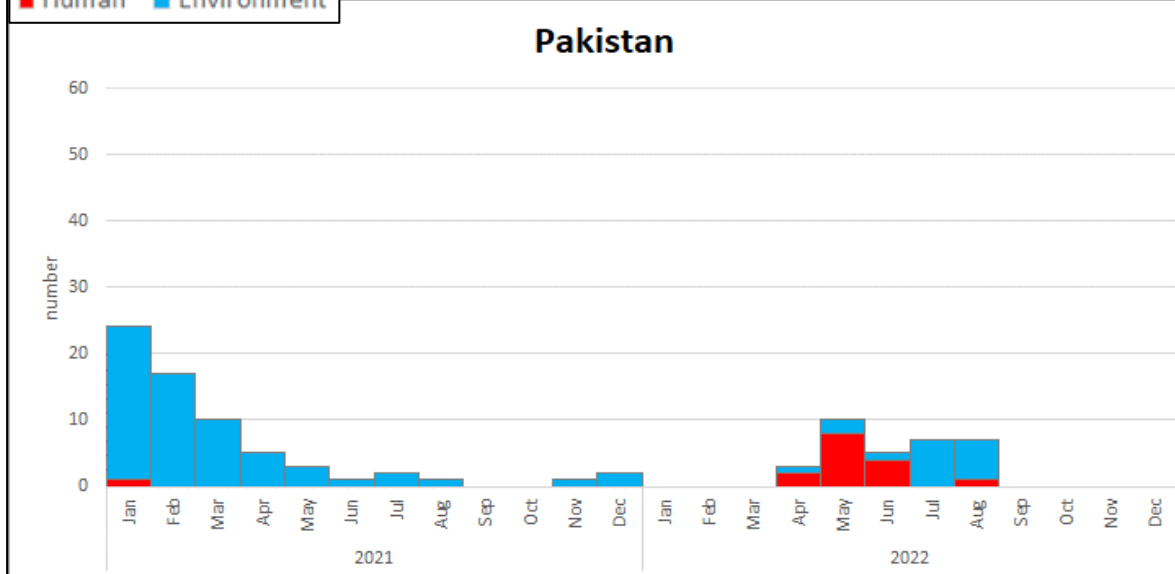
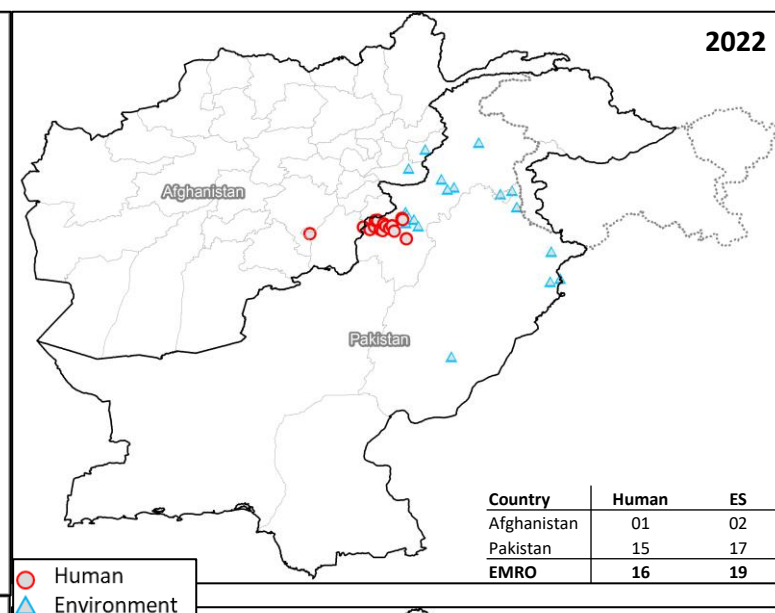
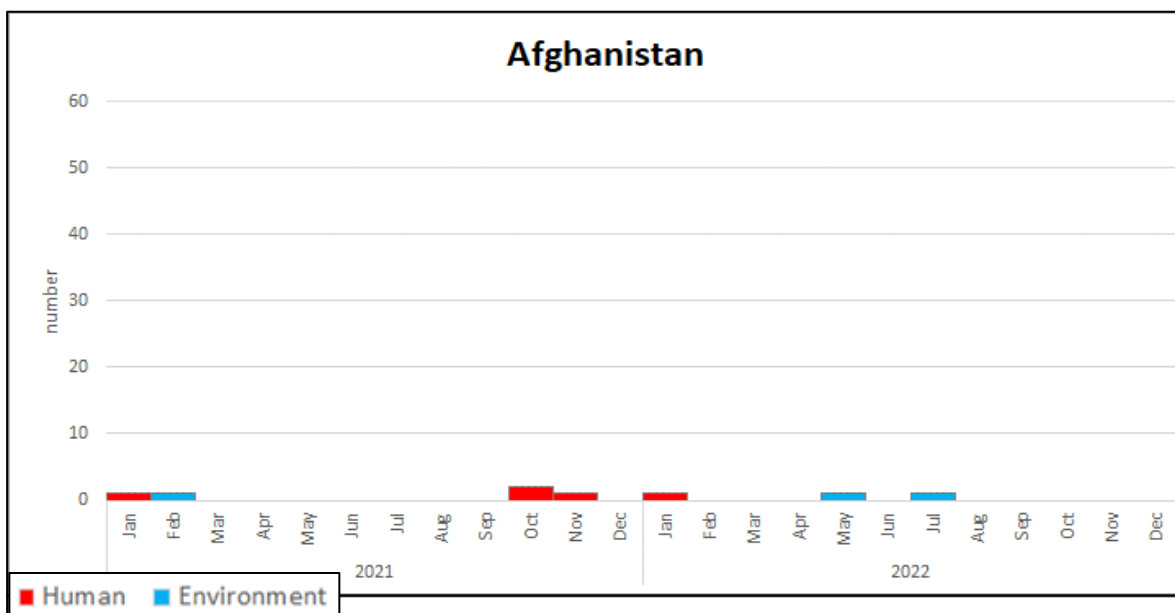


Stool adequacy



WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (Aug 21, 2021 to Aug 21, 2022)

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Source / Virus type	AFG	DJI	PAK	EGY	IRN	JOR	SOM	YEM	Total
Human (AFP only)	4		16				3	185	208
Wild	4		15						19
cVDPV2							3	182	185
aVDPV2			1					3	4
VDPV2									
Environment	2	17	29	19	2	3	4	14	90
Wild	2		20						22
cVDPV2		17		6			3	14	40
aVDPV2			9		1				10
VDPV2				13	1	3	1		18
Total	6	17	45	19	2	3	7	199	298

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	21 Aug.		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2021						2022						
			2021	2022	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Afghanistan	56	4	1	1	0	2	1	0	1	0	0	0	0	0	0		14-Jan-22
Bahrain	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			
Egypt	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			
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		
Oman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pakistan	84	1	1	15	0	0	0	0	0	0	0	2	8	4		1	01-Aug-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			
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				
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						
EMR	140	5	2	16	0	2	1	0	1	0	0	2	8	4	0	1	01-Aug-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		
		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	Date of latest
AFGHANISTAN	4088	4	1	4038	45	0	0	18.92	93.52	3383	1	0	3137	1	34	0	23.82	94.24	28-Aug-22
BAHRAIN	11	0	0	11	0	0	0	3.58	100.00	9	0	0	5	0	2	0	4.58	88.89	21-Aug-22
DJIBOUTI	8	0	0	8	0	0	0	2.06	75.00	14	0	0	13	0	0	0	5.22	57.14	28-Aug-22
EGYPT	1251	0	0	1250	1	0	0	3.17	90.89	865	0	0	778	0	14	1	3.34	89.25	25-Aug-22
IRAN	681	0	0	680	1	0	0	3.36	97.65	447	0	0	440	0	0	0	3.36	97.32	28-Aug-22
IRAQ	709	0	0	709	0	0	0	4.08	91.26	546	0	0	457	0	39	0	4.77	91.94	26-Aug-22
JORDAN	47	0	0	47	0	0	0	1.19	100.00	54	0	0	49	0	0	0	1.99	98.15	25-Aug-22
KUWAIT	48	0	0	48	0	0	0	5.47	93.75	25	0	0	23	0	0	0	4.11	100.00	14-Aug-22
LEBANON	39	0	0	39	0	0	0	2.45	89.74	27	0	0	17	0	4	0	2.58	74.07	13-Aug-22
LIBYA	79	0	0	79	0	0	0	3.05	100.00	60	0	0	51	0	0	0	3.52	100.00	27-Aug-22
MOROCCO	78	0	0	78	0	0	0	0.80	66.67	36	0	0	16	0	12	1	0.54	47.22	17-Aug-22
OMAN	17	0	0	17	0	0	0	1.41	94.12	19	0	0	18	0	0	0	2.40	89.47	23-Aug-22
PAKISTAN	13118	1	4	13095	18	0	0	13.01	85.19	9880	15	0	8752	0	127	0	14.88	86.67	28-Aug-22
PALESTINE	16	0	0	16	0	0	0	0.85	100.00	9	0	0	7	0	0	0	0.68	100.00	28-Aug-22
QATAR	11	0	0	11	0	0	0	2.03	90.91	6	0	0	5	0	0	0	2.02	100.00	14-Aug-22
SAUDI ARABIA	217	0	0	217	0	0	0	2.59	93.55	129	0	0	97	0	0	0	2.27	96.90	28-Aug-22
SOMALIA	349	0	0	348	1	0	0	4.21	96.28	218	0	0	201	2	0	0	4.00	97.71	28-Aug-22
SUDAN	636	0	0	636	0	0	0	3.26	94.34	417	0	0	382	0	12	2	3.26	96.64	27-Aug-22
SYRIA	431	0	0	431	0	0	0	5.60	91.18	244	0	0	213	0	0	0	4.83	94.26	27-Aug-22
TUNISIA	23	0	0	23	0	0	0	0.81	65.22	22	0	0	11	0	3	0	1.16	68.18	26-Aug-22
U.A.E.	21	0	0	21	0	0	0	1.42	90.48	27	0	0	0	0	18	0	2.79	96.30	23-Aug-22
YEMEN	921	0	0	849	72	0	0	5.96	87.84	825	0	0	440	117	32	11	8.14	87.88	27-Aug-22
EMR POL	22799	5	5	22651	138	0	0	7.97	88.33	17262	16	0	15112	120	297	15	9.15	89.33	

* 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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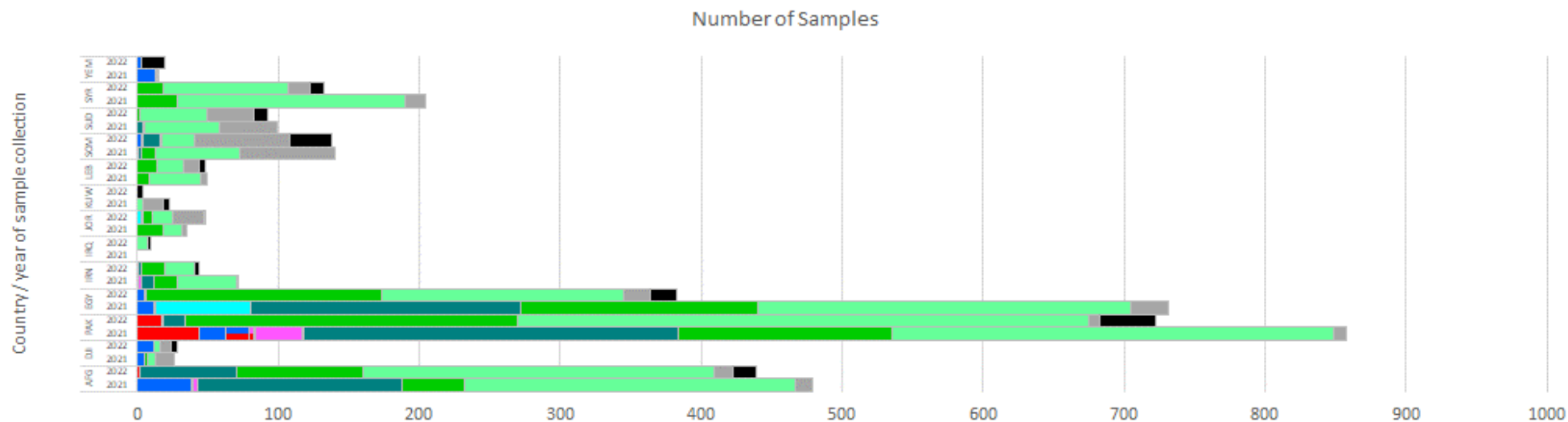
Country	Polio laboratories	AFP cases with specimens	Preliminary virus isolation results of AFP cases						Poliovirus intratypic differentiation results											Indicators				Latest report Date		
	ITD / Nucleotide Sequencing		Referred for ITD		NPEV only	Negative	Pending		Type 1			Type 2			Type 3			Discordant 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 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	3339	202	32	583	2354	126	2	1	149			8			173					1	15%	95%	100%	98%	28-Aug-22
Bahrain	NPL Oman / CDC	9				9																0%	100%		100%	24-Aug-22
Djibouti	NPL Kenya / CDC	14	2		4	7		1		2			2			2						31%	77%		69%	28-Aug-22
Egypt***	RRL Egypt	847	17	5	116	670	31	8		8						12			4	1		12%	99%	100%	99%	28-Aug-22
Iran	NPL Iran / CDC	462	8		4	437	11	2		3	1					6						1%	100%	100%	99%	27-Aug-22
Iraq	NPL Iraq, RRL Egypt	523	1		47	452		23								2						10%	100%	50%	99%	11-Aug-22
Jordan	NPL Jordan, RRL Egypt	53	2		12	34	1	4								2						26%	100%	1	100%	28-Aug-22
Kuwait	RRL Kuwait / RIVM	26	1			24		1		1						1		1	1			3%	100%	1	100%	28-Aug-22
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	25	1			24																0%	100%			21-Aug-22
Libya	RRL Tunisia / RIVM	59				55	4															0%	100%		100%	23-Aug-22
Morocco	NPL Morocco, RRL Tunisia	35			3	32																7%	100%		91%	27-Aug-22
Oman	NPL Oman / CDC	23			3	18	2															14%	81%		100%	24-Aug-22
Pakistan	RRL Pakistan	9710	303	40	1728	6917	656	56	13 *	163			1			260						15%	96%	100%	96%	28-Aug-22
Palestine & UNRWA		9				9																0%	33%		89%	28-Aug-22
Qatar	NPL Oman / CDC	6	1			5				1												0%	83%	0	100%	24-Aug-22
Saudi Arabia	NPL Saudi Arabia / CDC	123	2		3	108		10								2						3%	89%	50%	98%	15-Aug-22
Somalia	NPL Kenya / CDC	218	9		41	155	4	12		2			9	3								20%	7%		99%	28-Aug-22
Sudan	NPL Sudan / RRL Egypt	411	8		103	278	11	11										1				27%	67%	100%	22%	18-Aug-22
Syria	NPL Syria / RRL Egypt	229	2		14	193	7	13														6%	100%			21-Aug-22
Tunisia	RRL Tunisia	24				23	1															1%	100%		96%	23-Aug-22
U.A.E	NPL Oman / CDC	27				22	5															0%	100%		68%	24-Aug-22
Yemen	NPL Oman, NPL Kenya, RRL Egypt	686	135	3	72	359	15	102		6			6	114 **		16			1	1		14%	38%	18%	1%	27-Aug-22
Total EMR 2022		16858	694	80	2733	12185	874	245	16	335	1		26	120		476		1	7	2	1	14%	92%	85%	93%	
Total EMR 2021		22113	1183	128	3874	16919		5	5	478	7		363	107		599	1	11	7	2	2	14%	97%	97%	93%	

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

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

Environmental Surveillance Isolation by Classification

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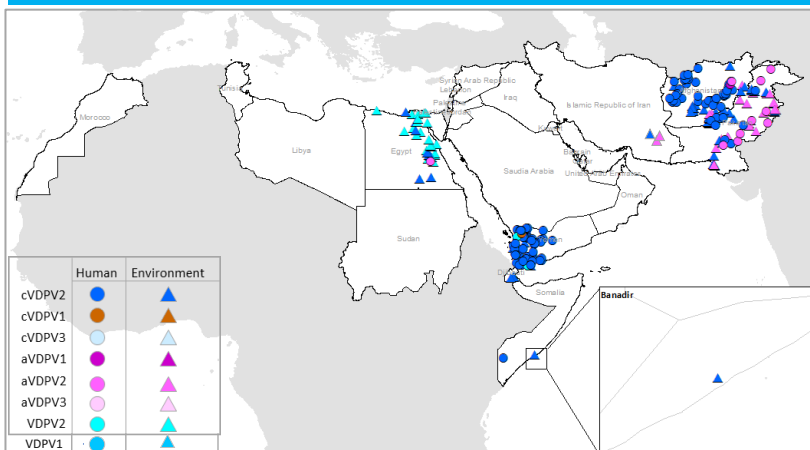


	AFG		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SOM		SUD		SYR		YEM	
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
■ Wild		2			44	17																				
■ cVDPV2	39		5	12	19		12	5	1										1	3					13	3
■ Wild+cVDPV2	1				16																					
■ Wild+aVDPV2					4																					
■ Wild+aVDPV3					1																					
■ aVDPV1																										
■ aVDPV2	3				33	1			2																	
■ aVDPV3																										
■ VDPV1					1		1																			
■ VDPV2							67	1	1				3							1						
■ SL2	145	68			266	16	192		9	2			1						2	12	4					
■ SL1/3	44	90	2		151	236	168	168	16	17			18	7			9	14	10	1	1	2	28	18	1	
■ Entero	235	249	6	4	314	405	265	171	42	21		8	14	14	4		36	19	60	24	53	47	162	89	1	
■ Negative	12	13	13	8	9	8	26	19	1				3	22	15		5	11	67	67	41	34	14	16		
■ Pending		17		4		39		19		3		2		1	4	4		4		30		10		10		17

VDPVs isolations by Source and Country

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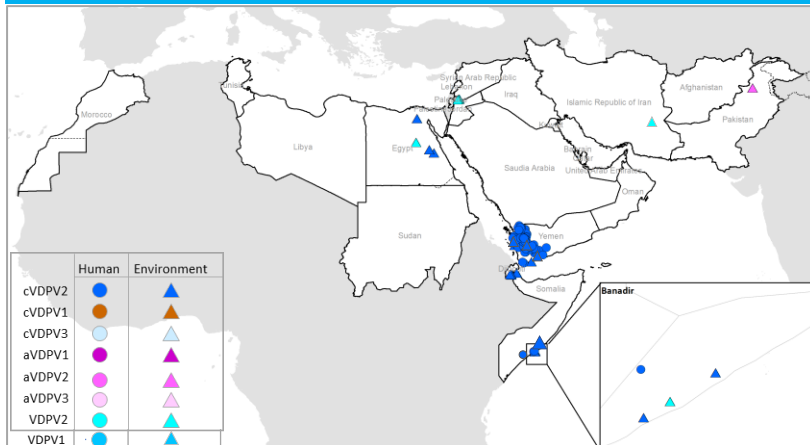
VDPV Isolates, EMR countries, 2021



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	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	3		14-05-22	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			24-08-21
	Syria	74						21-09-17	63					12-09-17									4						20-08-17
Yemen					66	117	16-06-22					23	33	21-05-22					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			21-09-21							
	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							

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)