

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

- 21 cases of Wild Polio 1
 - 02 in Afghanistan
 - 19 in Pakistan

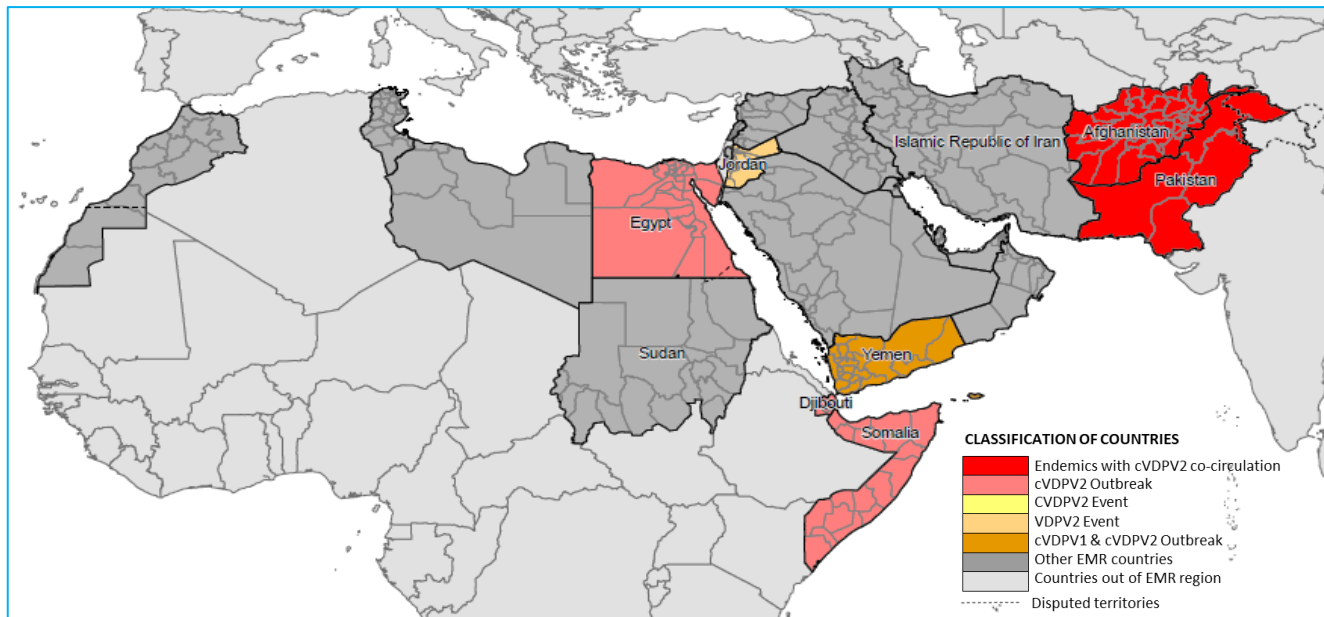
- 130 cases of cVDPV2
 - 03 in Somalia
 - 127 in Yemen

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

2022

- 25 samples Wild Polio 1
 - 02 in Afghanistan
 - 23 in Pakistan

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



Highlights of the week

Afghanistan:

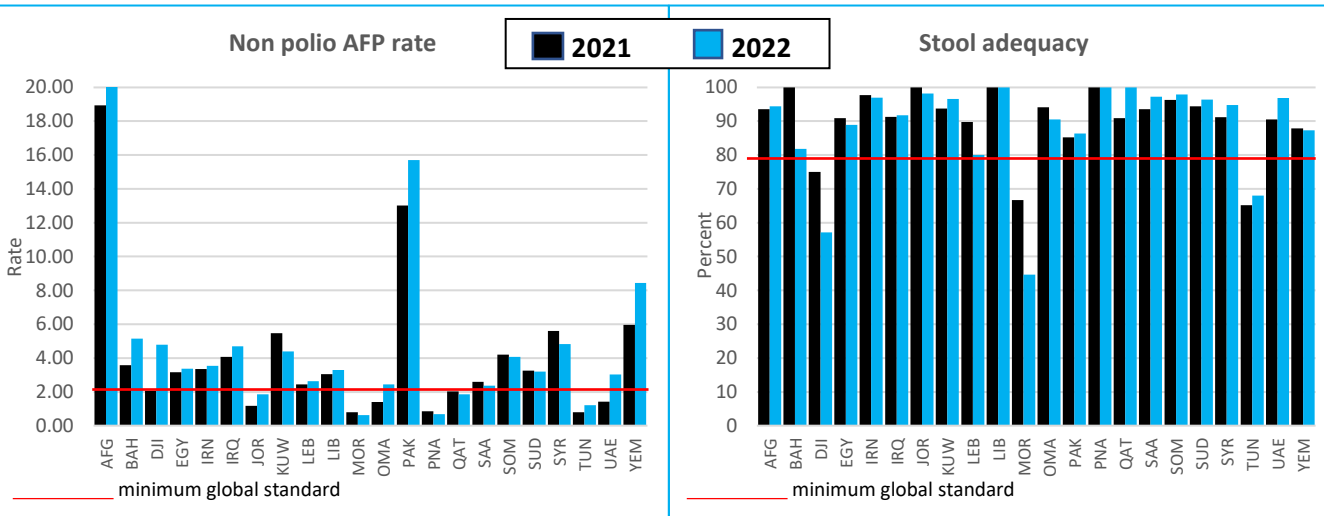
- One new WPV1 case was reported this week. The case is from Dara-e-Pech district, Kunar province, with date of onset 29th August 2022.

Pakistan:

- Two newly reported WPV1 cases this week. Both are from Khyber Pakhtunkhwa province, one is from South Waziristan district with date of onset 22nd August 2022 and the other is from North Waziristan district with date of onset 25th August 2022.
- One positive WPV1 environmental sample was reported this week from Swat district, Khyber Pakhtunkhwa province, with specimen collection date 30th August 2022.

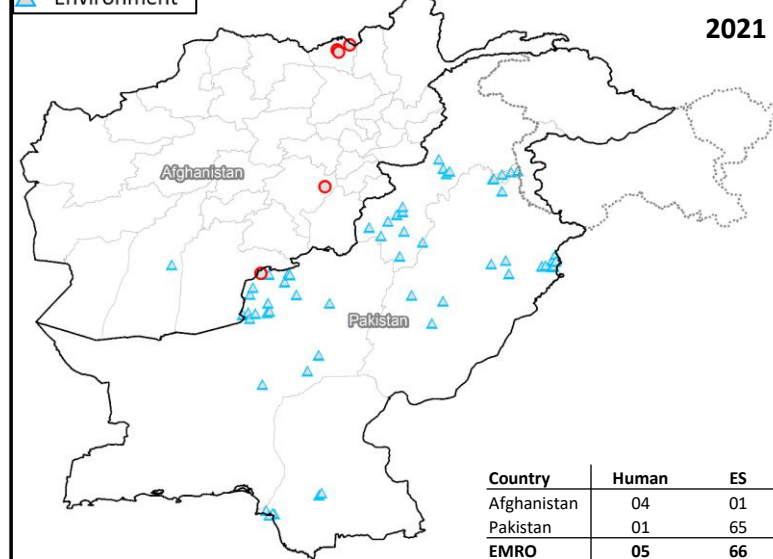
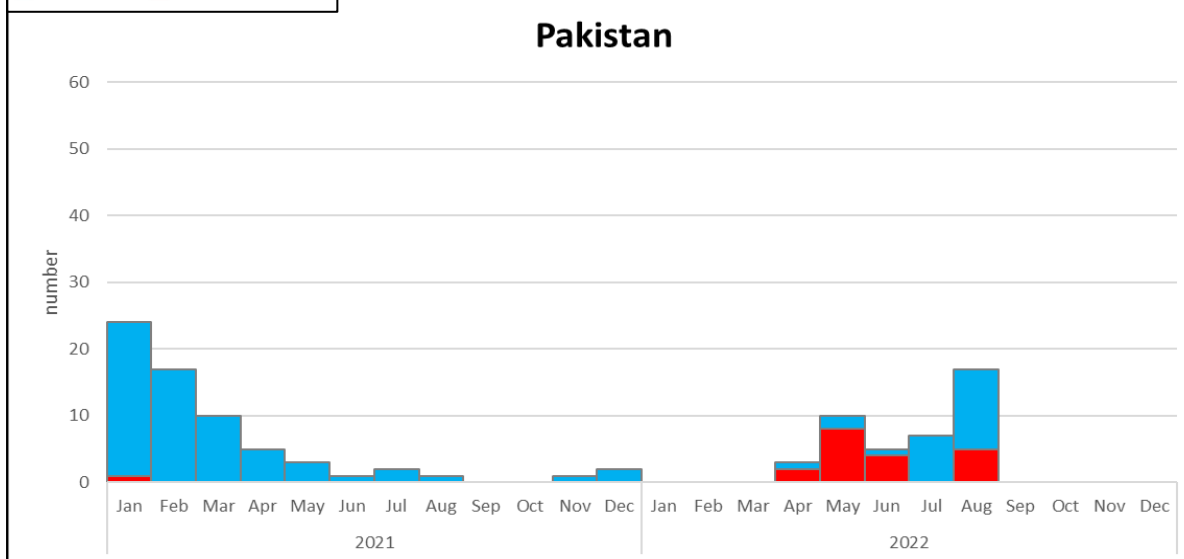
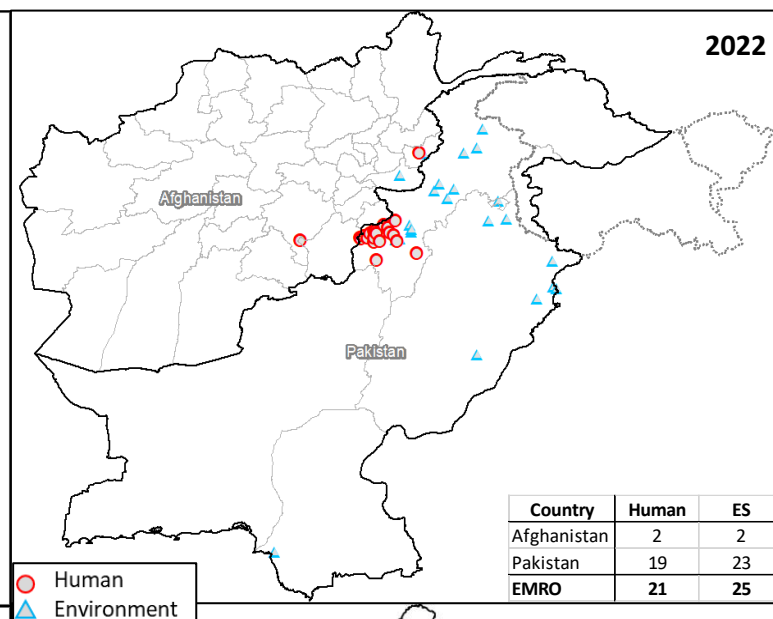
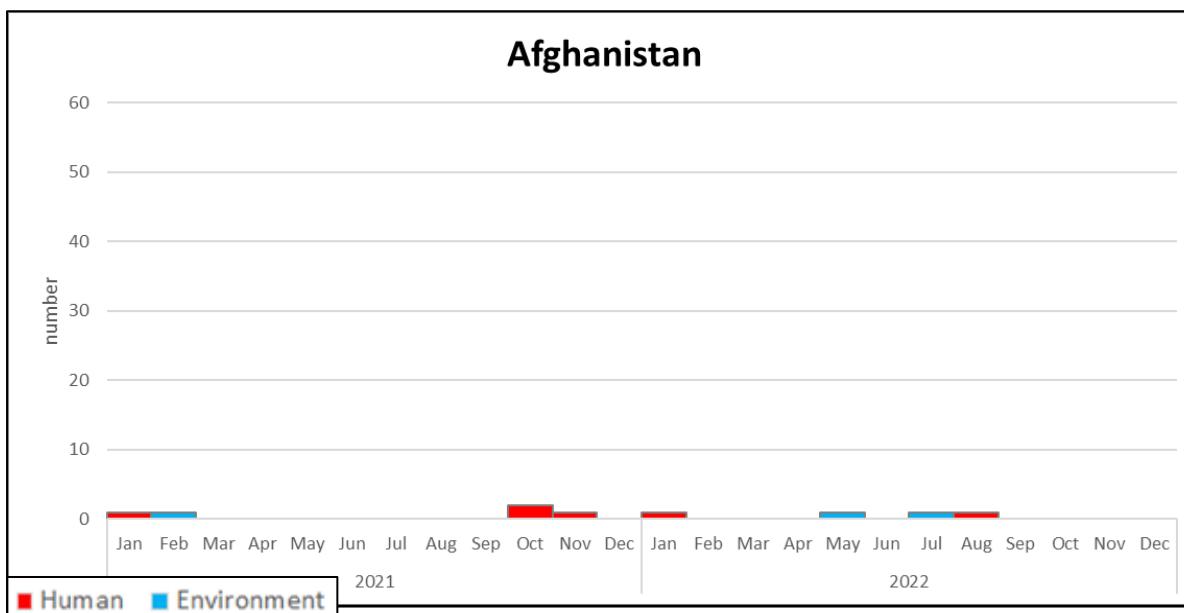
Yemen:

- Advance notification of four new VDPV2 cases reported by the lab from 4 provinces: one case each from Dhamar, Sanaa City, Ibb and Almahawet provinces. Dates of onset vary between 14th March to 1st August 2022. Cases are awaiting final classification.






WPV1 Positive isolates from Afghanistan and Pakistan by source

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Virus isolation by country, last 12 months (Sep 18, 2021 to Sep 18, 2022)

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Source / Virus type 	AFG	DJI	PAK	EGY	IRN	JOR	SOM	YEM	Total
 Human (AFP only)	6		20				3	192	221
Wild	5		19						24
cVDPV2							3	189	192
aVDPV2	1		1					3	5
VDPV2									
 Environment	2	17	33	13	2	3	4	13	87
Wild	2		26						28
cVDPV2		17		6			3	13	39
aVDPV2			7		1				8
VDPV2				7	1	3	1		12
Total	8	17	53	13	2	3	7	205	308

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	18 Sep.		Confirmed Wild Polio 1 Cases by month of onset												Recent most Case
					2021			2022									
			2021	2022	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Afghanistan	56	4	1	2	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	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				
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					
Libya	0	0	0	0	0	0	0	0	0	0	0	0					
Morocco	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	19	0	0	0	0	0	0	2	8	4	0	5		25-Aug-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		
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				
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	0					
Yemen	0	0	0	0	0	0	0	0	0	0	0	0					
EMR	140	5	2	21	2	1	0	1	0	0	2	8	4	0	6	0	29-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		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	3702	2	0	3442	1	20	0	23.96	94.41	18-Sep-22
BAHRAIN	11	0	0	11	0	0	0	3.58	100.00	11	0	0	7	0	2	0	5.14	81.82	18-Sep-22
DJIBOUTI	8	0	0	8	0	0	0	2.06	75.00	14	0	0	14	0	0	0	4.80	57.14	18-Sep-22
EGYPT	1251	0	0	1250	1	0	0	3.17	90.89	949	0	0	818	0	14	0	3.37	88.94	15-Sep-22
IRAN	681	0	0	680	1	0	0	3.36	97.65	516	0	0	483	0	0	0	3.55	96.90	18-Sep-22
IRAQ	709	0	0	709	0	0	0	4.08	91.26	584	0	0	483	0	60	0	4.69	91.78	17-Sep-22
JORDAN	47	0	0	47	0	0	0	1.19	100.00	55	0	0	54	0	0	0	1.86	98.18	8-Sep-22
KUWAIT	48	0	0	48	0	0	0	5.47	93.75	29	0	0	25	0	1	0	4.39	96.55	11-Sep-22
LEBANON	39	0	0	39	0	0	0	2.45	89.74	30	0	0	16	0	7	0	2.63	80.00	10-Sep-22
LIBYA	79	0	0	79	0	0	0	3.05	100.00	61	0	0	51	0	0	0	3.29	100.00	17-Sep-22
MOROCCO	78	0	0	78	0	0	0	0.80	66.67	47	0	0	18	0	16	2	0.64	44.68	16-Sep-22
OMAN	17	0	0	17	0	0	0	1.41	94.12	21	0	0	20	0	0	0	2.44	90.48	18-Sep-22
PAKISTAN	13118	1	4	13095	18	0	0	13.01	85.19	11331	19	1	10161	0	168	0	15.69	86.38	18-Sep-22
PALESTINE	16	0	0	16	0	0	0	0.85	100.00	10	0	0	7	0	0	0	0.70	100.00	18-Sep-22
QATAR	11	0	0	11	0	0	0	2.03	90.91	6	0	0	5	0	1	1	1.86	100.00	18-Sep-22
SAUDI ARABIA	217	0	0	217	0	0	0	2.59	93.55	146	0	0	104	0	0	0	2.36	97.26	18-Sep-22
SOMALIA	349	0	0	348	1	0	0	4.21	96.28	241	0	0	211	3	0	0	4.07	97.93	18-Sep-22
SUDAN	636	0	0	636	0	0	0	3.26	94.34	445	0	0	382	0	14	2	3.20	96.40	8-Sep-22
SYRIA	431	0	0	431	0	0	0	5.60	91.18	266	0	0	248	0	0	0	4.84	94.74	17-Sep-22
TUNISIA	23	0	0	23	0	0	0	0.81	65.22	25	0	0	21	0	1	0	1.22	68.00	16-Sep-22
U.A.E.	21	0	0	21	0	0	0	1.42	90.48	32	0	0	0	0	23	1	3.04	96.88	13-Sep-22
YEMEN	921	0	0	849	72	0	0	5.96	87.84	931	0	0	583	127	17	4	8.44	87.33	17-Sep-22
EMR POL	22799	5	5	22651	138	0	0	7.97	88.33	19452	21	1	17153	131	344	10	9.48	89.06	

* 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+ / INPEV			received within last 14 days	received more than 14 days ago	Wild	Sabin	VDPV	Wild	Sabin	VDPV	Wild	Sabin	VDPV									
Afghanistan	RRL Pakistan	3657	214	35	651	2568	163	2	2	163			8			183						16%	96%	100%	99%	18-Sep-22
Bahrain	NPL Oman / CDC	9				9																0%	100%		100%	15-Sep-22
Djibouti	NPL Kenya / CDC	14	2		4	8				2			2			2						29%	71%		71%	18-Sep-22
Egypt***	RRL Egypt	917	17	5	126	698	39	32		8						12			4	1		12%	99%	100%	99%	15-Sep-22
Iran	NPL Iran / CDC	540	8		5	496	29	2		3	1					6						1%	100%	100%	99%	17-Sep-22
Iraq	NPL Iraq, RRL Egypt	586	2		52	512	19	1								2				1		9%	100%	50%	99%	17-Sep-22
Jordan	NPL Jordan, RRL Egypt	55	2		13	36		4								2						27%	100%	1	100%	15-Sep-22
Kuwait	RRL Kuwait / RIVM	34	1			27	3	3		1						1		1	1			3%	100%	1	100%	15-Sep-22
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	28	1			24	3															0%	100%			15-Sep-22
Libya	RRL Tunisia / RIVM	64			1	63																2%	100%		100%	14-Sep-22
Morocco	NPL Morocco, RRL Tunisia	38			3	35																9%	100%		92%	16-Sep-22
Oman	NPL Oman / CDC	23			3	19	1															15%	82%		100%	15-Sep-22
Pakistan	RRL Pakistan	11072	337	47	2075	7962	628	31	16*	186			1			285				1		16%	97%	100%	96%	18-Sep-22
Palestine & UNRWA		10				9		1														0%	33%		89%	18-Sep-22
Qatar	NPL Oman / CDC	6	1			5				1												0%	83%	0	100%	15-Sep-22
Saudi Arabia	NPL Saudi Arabia / CDC	123	2		3	108		10								2						3%	89%	50%	98%	15-Aug-22
Somalia	NPL Kenya / CDC	241	9	1	40	165	3	26		2			9	3								19%	8%		99%	18-Sep-22
Sudan	NPL Sudan / RRL Egypt	458	8		117	312	19	2										1				27%	69%	100%	22%	18-Sep-22
Syria	NPL Syria / RRL Egypt	256	2		14	227	13															5%	100%			15-Sep-22
Tunisia	RRL Tunisia	26				25	1															1%	100%		96%	14-Sep-22
U.A.E	NPL Oman / CDC	27				27																0%	81%		63%	15-Sep-22
Yemen	NPL Oman, NPL Kenya, RRL Egypt	804	163	3	107	479	48	6		7			8	128**		19		8	1	1	5	15%	32%	29%	3%	17-Sep-22
Total EMR 2022		18988	769	91	3214	13814	969	120	21	373	1		28	134		514		9	7	2	7	15%	92%	86%	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%	

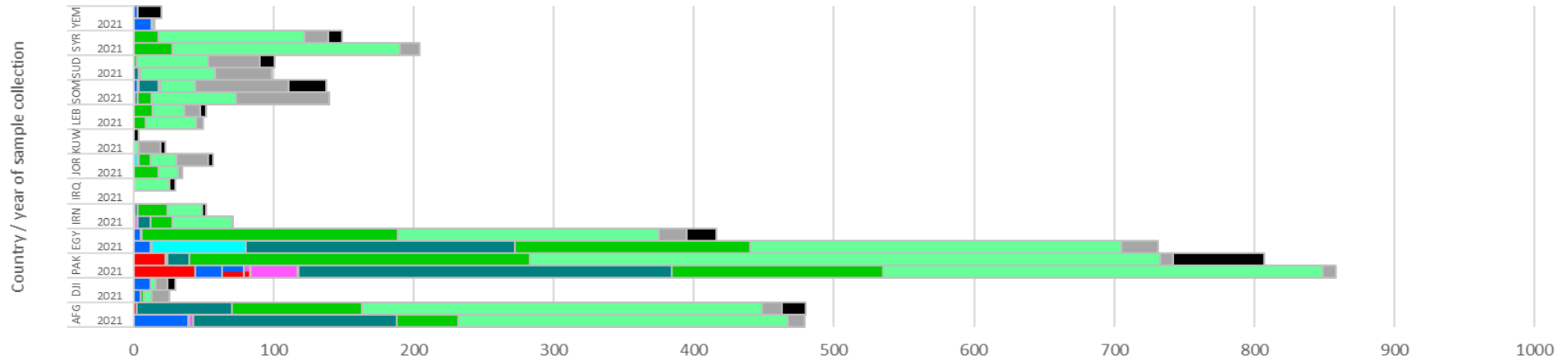
* Three WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

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

Environmental Surveillance Isolation by Classification

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Number of Samples

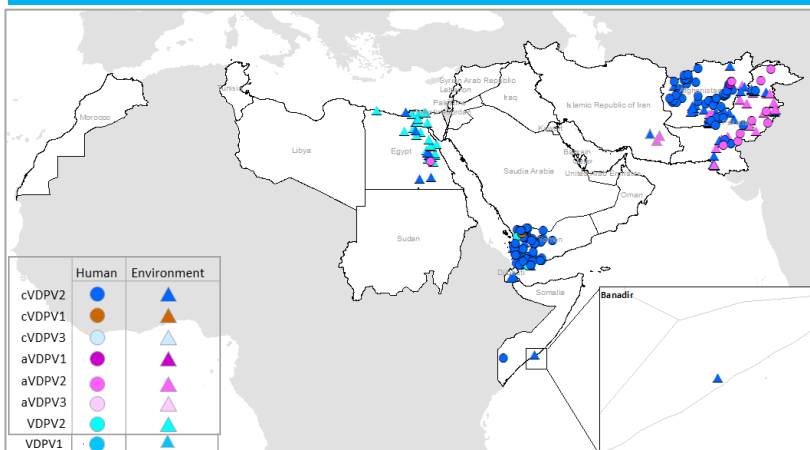


	AFG		DJI		PAK		EGY		IRN		IRQ		JOR		KUW		LEB		SOM		SUD		SYR		YEM	
	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021	2022
Wild		2			44	23																				
cVDPV2	39		5	12	19		12	5	1										1	3					13	3
Wild+cVDPV2	1				16																					
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	14	4					
SL1/3	44	93	2		151	243	168	183	16	21			18	8			9	14	10	1	1	2	28	18	1	
Entero	235	286	6	4	314	450	265	186	42	25		26	14	19	4		36	22	60	25	53	51	162	104	1	
Negative	12	14	13	8	9	9	26	20	1				3	22	15		5	12	67	67	41	37	14	17		
Pending		17		6		65		21		3		4		4	4	4		4		27		11		10		17

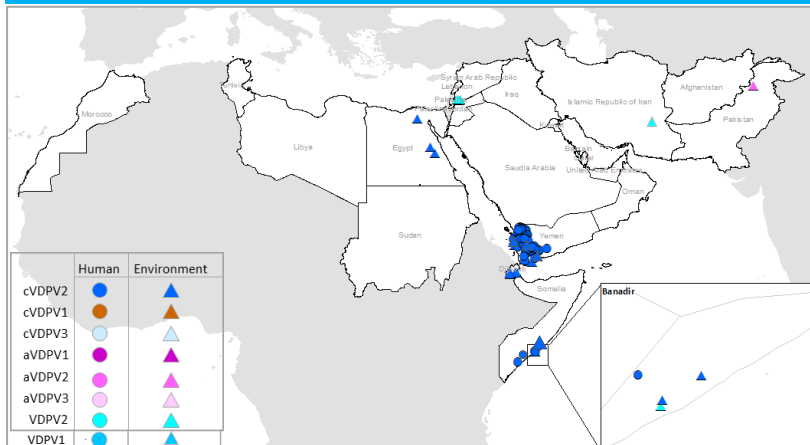
VDPVs isolations by Source and Country

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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	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	127	18-07-22					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									

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)