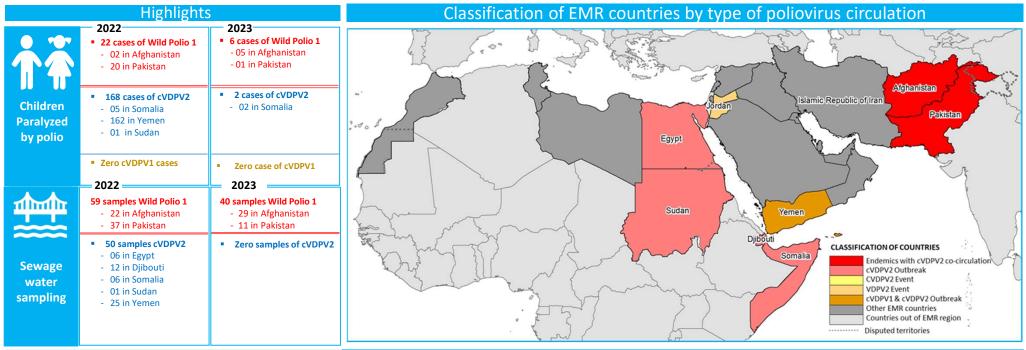


EMR Polio Bulletin

World Health Organization – Regional Office for Eastern Mediterranean Issue No. 1290, Week 25 (ending on 25/06/2023)



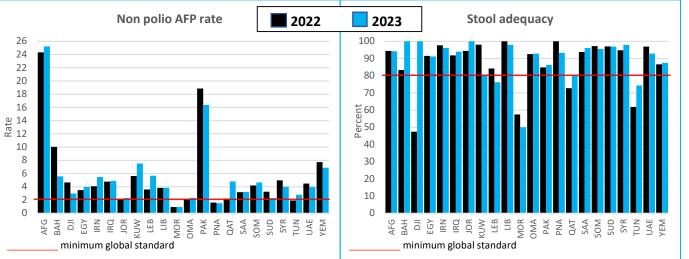
Highlights of the week

Wild Poliovirus

- No new WPV1 cases reported this week. The WPV1 cases count in 2023 till date is 6 (5 from Afghanistan and 1 from Pakistan) while in 2022, the WPV1 cases count remains to be 22 cases (2 from Afghanistan and 20 from Pakistan).
- No new WPV1 positive environmental samples reported this week. The positive WPV1 ES count in 2023 is 40 (29 in Afghanistan and 11 in Pakistan), while in 2022, the count remains to be 59 (22 in Afghanistan and 37 in Pakistan).

Circulating Vaccine derived poliovirus (cVDPV)

- No new cVDPV isolates from human or environmental samples reported this week.
 In 2003 the sourt of p(//D) / gases remains to be 2 cases from Samplin utility the
- In 2023 the count of cVDPV2 cases remains to be 2 cases from Somalia while the count in 2022 is 168 cases (1 from Sudan, 5 from Somalia and 162 from Yemen).
 In 2022 to date, the positive cVDPV2 ES count remains to be 50 (1 in Sudan, 6 in each of
- In 2022 to date, the positive cVDPV2 ES count remains to be 50 (1 in Sudan, 6 in each of Egypt and Somalia, 12 in Djibouti and 25 in Yemen) and no cVDPV2 ES reported in 2023 till date.



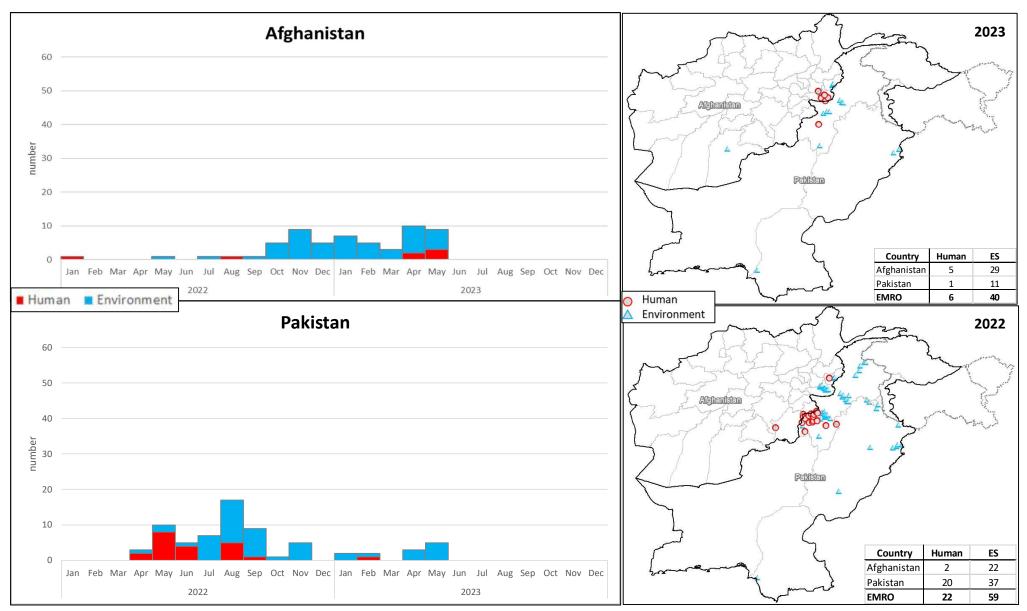
Wild Poliovirus type-1 (WPV1) Vaccine-derived Poliovirus (VDPV)

Contact us: WHO/EMRO – POL/SLD - Data

Web: http://www.emro.who.int/polio/strategy-surveillance/em-polio-fax-issues.html

WPV1 Positive isolates from Afghanistan and Pakistan by source

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For further details on Wild Poliovirus click: *^(P)* <u>line-list of WPV isolates</u>

Virus isolation by country, last 12 months (June 25, 2022 to June 25, 2023)

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Source / Virus type	AFG	РАК	EGY	SOM	SUD	YEM	Total
Human (AFP only)	6	8		6	1	38	59
Wild	6	8					14
cVDPV2				4	1	38	43
aVDPV2				2			2
VDPV2							
Environment	50	44	2	3	1	15	115
Wild	50	44					94
cVDPV2			1	3	1	15	20
aVDPV2							
VDPV2			1				1
Total	56	52	2	9	2	53	174

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 2021	Total year 2022	18 J	une					med Wil 022	d Polio	1 Cases	by mon	th of on	set 20	23	Recent most
Country	Total 20	Total 20	2022	2023	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Case
Afghanistan	4	2	1	5	0	1	0	0	0	0		0	0	2	3	18-May-23
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	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	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	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	1	20	12	1	0	5	1	0	0		0	1	0	0		20-Feb-23
Palestine ****	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	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	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	5	22	13	6	0	6	1	0	0	0	0	1	0	2	3	18-May-23

**** UNRWA cases are included with those of country of residence

Investigation of AFP cases with paralysis onset in 2022 & 2023

					2023					2022												
				Case clas	sification			Surveilland	e indicators				Case clas		Surveillanc	e indicators	Line List					
COUNTRY	AFP cases	Total Contirmed WPV1 Polio Cases	Polio Compatible	Discarded (non polio AFP)	•••• Adda	Pending classification > 90 days from onset	Pending LAB classification > 90 days from onset	Annualized Non polio AFP rate	X with adequate specimens	AFP cases	Total Confirmed WPV1 Polio Cases *	Polio Compatible	Discarded (non polio AFP)		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	2728	5	0	2431	0	13	4	25.22	94	5368	2	0	5365	1	0	0	24.33	94	25-Jun-23			
Bahrain	8	0	0	5	0	0	0	5.57	100	30	0	0	30	0	0	0	10.02	83	25-Jun-23			
Djibouti	6	0	0	5	0	0	0	2.97	100	19	0	0	19	0	0	0	4.65	47	25-Jun-23			
Egypt	784	0	0	647	0	10	1	3.96	91	1394	0	0	1394	0	0	0	3.48	92	25-Jun-23			
Iraq	411	0	0	389	0	7	0	4.88	94	835	0	0	835	0	0	0	4.78	92	24-Jun-23			
Islamic Republic of Iran	553	0	0	499	0	0	0	5.48	96	824	0	0	824	0	o	0	4.06	98	24-Jun-23			
Jordan	48	0	0	46	0	0	0	2.30	100	89	0	0	89	0	0	0	2.14	94	07-Jun-23			
Kuwait	31	0	0	31	0	0	0	7.51	81	52	0	0	52	0	0	0	5.62	98	25-Jun-23			
Lebanon	42	0	o	24	0	5	0	5.67	76	57	0	0	57	0	0	0	3.58	84	19-Jun-23			
Libya	49	0	0	37	0	1	0	3.86	98	99	0	0	99	0	0	0	3.82	100	17-Jun-23			
Morocco	54	0	o	18	0	21	1	0.94	50	94	0	0	88	0	5	1	0.91	57	25-Jun-23			
Oman	14	0	0	14	0	0	0	2.32	93	27	0	0	27	0	0	0	2.10	93	12-Jun-23			
Pakistan	7675	1	0	6954	0	75	0	16.36	86	19031	20	1	19009	0	1	3	18.85	85	25-Jun-23			
Palestine	15	0	0	6	0	2	1	1.50	93	33	0	0	32	1	0	0	1.59	100	18-Jun-23			
Qatar	10	0	0	3	0	2	0	4.80	80	11	0	0	11	0	0	0	2.22	73	11-Jun-23			
Saudi Arabia	129	0	0	92	0	1	0	3.22	96	274	0	o	274	0	0	0	3.18	94	18-Jun-23			
Somalia	202	0	0	185	2	0	0	4.65	96	356	0	0	349	7	0	0	4.20	97	25-Jun-23			
Sudan	229	0	0	154	0	18	11	2.31	97	650	0	0	649	1	0	0	3.24	97	25-Jun-23			
Syrian Arab Republic	149	0	0	128	0	0	0	4.01	98	382	0	0	382	0	0	0	4.96	95	24-Jun-23			
Tunisia	39	0	0	33	0	1	1	2.80	74	55	0	0	55	0	0	0	1.91	62	16-Jun-23			
United Arab Emirates	28	0	0	17	0	7	0	3.96	93	66	0	0	66	0	0	0	4.47	97	20-Jun-23			
Yemen	527	0	0	337	0	15	7	6.89	87	1377	0	1	1214	162	0	0	7.73	87	25-Jun-23			
EMR POL	13731	6	0	12055	2	178	26	9.82	89	31123	22	2	30920	172	6	4	10.71	88				

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* 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: @<u>detail of contact samples</u>

Laboratory investigation of AFP cases with paralysis onset in 2023

	Polio laboratories		Preliminary virus isolation results					of AFP cases Poliovirus intratypic differentiation results																		
	ITD Necleotide Sequencing	with	Referred	Referred for ITD			Pen	ding		Type 1			Type 2			Type 3		ing				5	ithic	ith n 7	ith 1 45 *	Date
Country	Sequencing performed by CDC and RIVM laboratories	AFP cases w specimens	L20B+	L20B+/NPEV	NPEV only	Negative	received within last 14 days	received more than 14 days ag	PIM	Sabin	VDPV	РИМ	Sabin	VDPV	PIM	Sabin	VDPV	Discordent pend sequence	NPEV by PCR Non-EV	Non-EV	Pending ITD	% specimens positive for NPE/	% AFP cases v culture results w 14 days	% AFP cases wit ITD results within days	% AFP cases wi ITD results within days of onset*	Latest report Date
Afghanistan	RRL Pakistan	3738	<mark>21</mark> 9	36	667	2647	146		2	164			8			184			2	s		16%	96%	100%	99%	25-06-23
Bahrain	PNL Oman	9				9		c														0%	100%		100%	25-06-23
Djibouti	PNL Kenya	14	2		4	8				2			2			2						29%	71%		71%	23-06-23
Egypt***	RRL Egypt	933	18	5	134	730	32	14		8						13				2	2	12%	99%	100%	99%	15-06-23
Iran	PNL Iran / CDC	543	9		5	522	7			4	1					6						1%	100%	100%	98%	24-06-23
Iraq	PNL Iraq, RRL Egypt	597	2		53	524	16	2								2						9%	100%	50%	99%	24-06-23
Jordan	PNL Jordan, RRL Egypt	56	2		13	36	1	4								2						27%	100%	100%	100%	25-06-23
Kuwait	RRL Kuwait / RIVM	35	2	8 6		29	2	2		1						1						3%	100%	100%	100%	25-06-23
Lebanon	NPL Jordan, NPL Syria, RRL Egypt	28	1			24	3	1					1			s				s		0%	100%			18-06-23
Libya	RRL Tunisia / RIVM	64			1	63		· ·														2%	100%		100%	10-06-23
Morocco	PNL Morocco, RRL Tunisia	38			3	35																9%	100%		92%	25-06-23
Oman	PNL Oman / CDC	23			3	19	1															15%	82%		100%	25-06-23
Pakistan	RRL Pakistan	11596	343	48	2178	8365	635	22	16	190			1			288			5			16%	97%	99%	96%	25-06-23
Palestine & U	NRWA	10				9		1														0%	33%		89%	08-06-23
Qatar	NPL Oman / CDC	6	1			5				1						8				8		0%	83%	0%	100%	25-06-23
Saudi Arabia	PNL Saudi Arabia / CDC	147	2	6 6	3	140		2								2						3%	92%	50%	98%	19-06-23
Somalia	PNL Kenya / CDC	241	9	1	<mark>4</mark> 0	165		29		2		s	9	1		s				s		19%	8%		99%	23-06-23
Sudan	PNL Sudan, RRL Egypt	<mark>475</mark>	8		120	324	21	2										1				26%	70%	100%	22%	14-06-23
Sudan (south	PNL Kenya																									25-06-23
Syria	PNL Syria, RRL Egypt	269	2		14	234	18	1														5%	100%			18-06-23
Tunisia	RRL Tunisia	26				25		1														1%	100%		96%	10-06-23
U.A.E	PNL Oman / CDC	30				27	3															0%	81%		63%	25-06-23
Yemen	NPLs Oman, Jordan & Kenya, RRL Egypt	804	164	3	109	483		46		8			8	130		<mark>1</mark> 9					2	15%	32%	32%	3%	25-06-23
	Total EMR 2023	19682	784	93	3347	14423	885	126	18	380	1		28	131		519		1	7	2	2	15%	92%	86%	93%	
	Total EMR 2022	30459	1066	119	4831	24430		9	22	556	2		38	169		723		6	8	2	1	13%	93%	89%	92%	

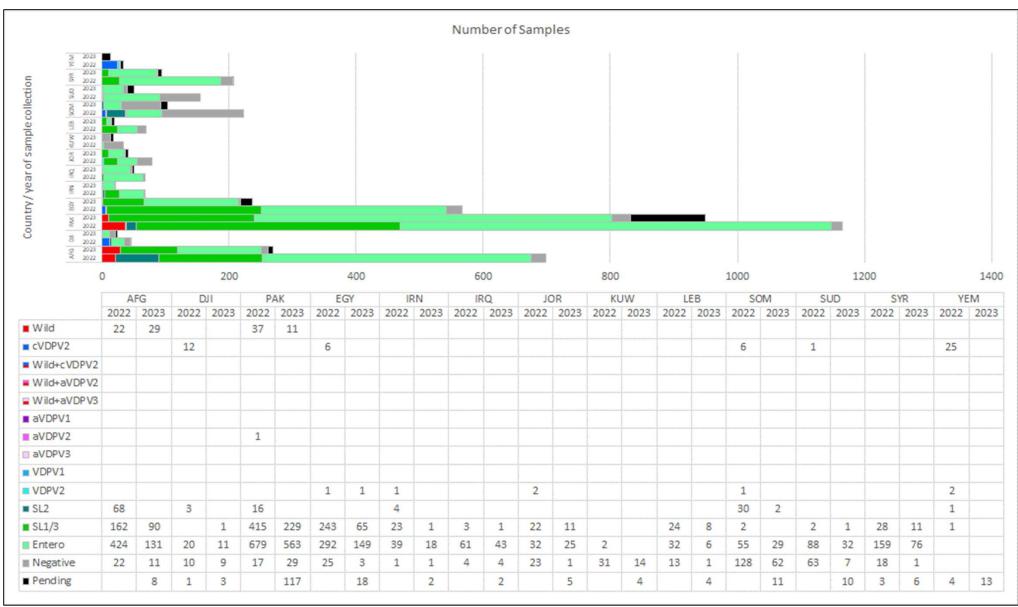
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* In 2022 - Three WPV1 cases are confirmed due to positive contacts (Index cases were negative for WPV1)

** In 2022 - Five cVDPV2 cases are identified by positive contacts (Index cases were negative for cVDPV2)

Environmental Surveillance Isolation by Classification

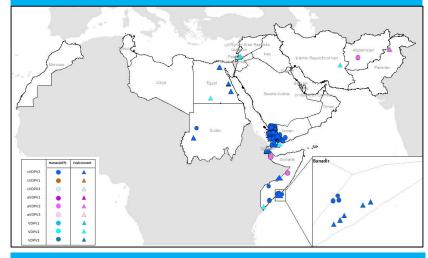
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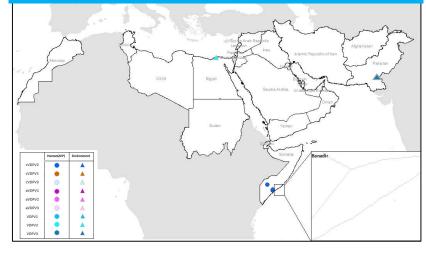
VDPVs isolations by Source and Country

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VDPV Isolates, EMR countries, 2022



VDPV Isolates, EMR countries, 2023



VDPV EMR AFP cases(Human) Environment Other Sources (Healthy Children) Contacts(Human) Isolate Country 2020 2021 Most 2022 Most 2019 Most 2019 2022 2023 2018 2020 2022 2023 2017 2020 2022 2020 type ž 2019 202 50 2021 Most recen Σ recent recent recent Afghanistan 307 43 09-07-21 174 40 23-06-21 5 12 22-05-22 Djibouti 12 6 29-08-22 Egypt 3 1 ran 20-02-21 cVDPV2 22 135 8 Pakistan 23-04-21 38 135 35 11-08-21 6 3 14 1 5 2 02-03-23 3 1 11 5 31-08-22 19 5 26 1 6 22-12-22 1 5 10-03-22 Somalia 58 31-10-22 18 08-10-20 14 1 28-11-22 4 24-08-20 Sudan 1 66 162 14-12-22 23 40 19-12-22 13 25 Yemen 28-11-22 cVDPV1 Yemen 1 31 3 27-03-21 2 10-07-19 cVDPV3 Somalia 07-09-18 30-06-18 12 23-08-18 7 22-02-21 Afghanistan 1 16-07-20 Egypt 1 aVDPV1 10-02-21 Pakistan 1 1 26-01-20 Somalia 1 20-07-21 Yemen 3 1 1 01-01-22 75 15 1 14-02-22 2 3 25-07-21 Afghanistan 1 30-05-21 1 14-06-21 1 21-09-20 Egypt 2 23-09-21 ran aVDPV2 7 8 8 19 1 3 22 37 1 24-09-21 28-04-21 15-02-22 Pakistan 2 1 03-02-19 Somalia 3 /emen 01-11-21 1 09-12-21 Afghanistan 1 23-06-20 2 30-09-20 Egypt aVDPV3 05-04-21 Pakistan 1 1 15-01-20 ibya VDPV1 1 11-07-21 Egypt 1 27-02-23 67 1 12-01-22 Egypt 1 04-02-22 ran VDPV2 2 25-05-22 Jordan Somalia 1 01-09-22 1 24-04-22 Yemen VDPV3 Pakistan 14-02-23 1

8

VDPVs isolated from 2018-2023

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)

• <u>Certification (e-ACR)</u> (restricted to registered users)