



GLOBAL TASK FORCE ON
CHOLERA CONTROL

**PRIORITIZATION OF PAMIS
FOR OCV USE**

4 May 2023
GTFCC Surveillance TWG
Annual Meeting

PURPOSE

GTFCC Roadmap **axis 2**: multisectoral approach to prevent cholera in hotspots in endemic countries, including **using OCV as a bridge between emergency response and longer term control**

➤ OCV preventive program launched 01/2023

Countries need to develop a multi-year plan (MYP) of action documenting their OCV needs* by year

OCV WG developed a tool to help countries prioritize PAMs by year for OCV

MYPs will inform vaccine forecasting

The screenshot displays a web browser with two tabs. The active tab is 'Oral cholera vaccine support' at the URL <https://www.gavi.org/types-support/vaccine-support/oral-cholera>. The page features a 'BACK TO VACCINE SUPPORT' button and a main heading 'Oral cholera vaccine support'. Below the heading, there are two bullet points: 'For emergency use, click here to access the Global OCV Stockpile.' and 'For guidance and support in planning preventive cholera vaccination, click here for Gavi Support Guidelines; then click on drop-down menu for "Vaccine information" to view the Vaccine Funding and Gavi's support for Oral Cholera Vaccine (OCV) Multi-Year Plan of Action Template (French)'. A second browser window is open in the foreground, displaying a Microsoft Word document titled 'Multi-Year-Plan-of-Action.docx'. The document is dated July 2022 and contains the following text: 'Preventive Oral Cholera Vaccine (OCV) Multi-Year Plan of Action Template', '1. General considerations', 'a. Context', 'i. Health system: Provide a brief (1 paragraph) description and/or diagram of the management structure and levels of the health system. Provide a high level summary of the water and sanitation context in the country and the status of the National Cholera Control Plan (NCP).', 'ii. Cholera situational analysis:', '1. Provide a situational analysis of cholera risk highlighting the historical (> 5 years) and current (< 5 years) trends including seasonality patterns and recent cholera control efforts including vaccination. Include a table showing location and timing of any previous OCV vaccination campaigns. Note: If this information is already captured in a report or strategy released in the previous 12 months, a summary can be provided here with reference to the other document.', and '2. Describe the cholera surveillance system including case'. The Windows taskbar at the bottom shows the time as 4:40 PM on 4/21/2023.

*based off the PAMs identified through the GTFCC tool

DEVELOPMENT PROCESS

During January–April, 2022, a sub-TWG of the OCV TWG identified criteria and developed a tool to help countries prioritize their PAMIs for OCV

- Focused on brainstorming and identifying the purpose of OCV MYPs, key considerations for inclusion into the guidance, and key considerations on flexibility
- Obtained country perspectives on how they prioritize cholera hotspots for OCV
- Conducted a deep dive into the identified selection criteria and discussed thresholds and additional guidance for countries

IDENTIFIED CRITERIA CATEGORIES

Susceptibility



Transmission risk



Vulnerability



Operations



MANDATORY CRITERIA

Category	Prioritization criteria
Susceptibility	1. Population received OCV within the last 3 years (coverage for 2 doses >70%, minimal population change)
Vulnerability	2. Areas with high-risk populations (e.g., refugee camps, IDP camps, fishermen) or affected by complex humanitarian emergencies
Transmission risk	3. Areas with high population density/overcrowded settings (e.g., urban slums)*
	4. Area adjacent to cholera-affected areas or identified PAMIs

*Need to justify (e.g., high population density link with poor urbanization services or other risk of transmission amplification)

OPTIONAL CRITERIA

Category	Prioritization criteria
Susceptibility	Areas with recent transmission in the last 12 months/last cholera season
Vulnerability	Area with proportion of the population using safely managed drinking water services <70%
	Areas with proportion of population using safely managed sanitation services <70%
	Areas with proportion of population with handwashing facilities with soap and water at home <70%
	Areas at high-risk for extreme climate and weather conditions (e.g., heavy rains, floods, droughts)

OPERATIONAL CRITERIA

Category	Prioritization criteria
Operational considerations	Areas with accessibility issues (e.g., security issues, due to weather patterns, or road conditions?)
	Has the seasonality of cholera in the PAMI been considered?
	Does the country want to consider regional implementation of the campaigns?

ILLUSTRATIVE EXAMPLE OF TOOL

Step 1 and 2: Gather data on mandatory / optional criteria and score each PAMI

Name	PAMI score	Susceptibility		Vulnerability		Risk of transmission and spread						Score and Total score for OCV campaign
		Historical OCV campaign?		High risk populations (e.g., IDP, refugees, fishermen, etc)		Population density				Risk of importation/cross border/proximity		
		2-dose coverage > 70% and no significant change in population	Historical OCV score (Y=2; N=4)	High risk populations living in the PAMI	High risk populations score (Y=4; N=2)	Area (sq km)	Population baseline data for 2022	Population density	Population density score	Area adjacent to cross-corder cholera affected areas or PAMIs	Risk of cross border transmission Score (Y=4; N=2)	
Name	PAMIScore	CovAbove70	HistOcvSc	AtRiskPop	HighRiskScore	Area	Population	PopDens	PopDensSc	ImportRisk	ImpRiskScore	OCVScore
PAMI 10	9	Y	2	N	2	327	22,187	67.8	3	Y	4	20
PAMI 12	7	Y	2	Y	4	527	123,807	235.1	3	Y	4	20
PAMI 06	6	N	4	Y	4	2,114	115,950	54.8	3	N	2	19
PAMI 05	6	N	4	Y	4	3,957	148,463	37.5	2	N	2	18
PAMI 13	4	N	4	N	2	36	162,901	4,588.5	4	Y	4	18
PAMI 14	4	N	4	Y	4	18	78,260	4,439.7	4	N	2	18
PAMI 01	6	Y	2	Y	4	3,692	33,534	9.1	1	Y	4	17
PAMI 11	5	Y	2	N	2	95	35,564	374.1	4	Y	4	17
PAMI 03	6	Y	2	N	2	643	31,298	48.6	2	Y	4	16
PAMI 04	6	N	4	N	2	761	19,845	26.1	1	N	2	15
PAMI 07	3	N	4	N	2	1,101	46,611	42.3	2	Y	4	15
PAMI 02	5	Y	2	Y	4	2,761	36,199	13.1	1	N	2	14
PAMI 08	4	Y	2	N	2	204	73,235	359.7	3	N	2	13

ILLUSTRATIVE EXAMPLE OF TOOL

PAMIs	Step 3: Using the score from Step 2, develop multi-year OCV plan				Step 4: Assess key operational questions			Step 5: Document rationale for planning of OCV campaigns in PAMIs			
	OCV Requirements			1st round	2nd round		Key operational questions				
	OCV prioritization score	Target population	Required doses	Planned month	Planned year	Planned month	Planned year	Has the seasonality of cholera in the PAMI been considered as part of the planned timelines for OCV campaigns?	Have accessibility issues in the PAMI (e.g., security issues, weather patterns or conditions) been considered as part of the planned timelines for OCV campaigns?	Does the country want to consider regional implementation of the campaigns?	Additional comments
Name	OCVScore2	TargetPop	ReqDoses	Pl	Pl	Pl	Pl				Comments
PAMI 10	20	24,456	46,467								
PAMI 12	20	127,893	242,997								
PAMI 06	19	127,812	242,843								
PAMI 05	18	153,363	291,389								
PAMI 13	18	179,567	346,806								
PAMI 14	18	83,511	158,670								
PAMI 01	17	35,783	67,989								
PAMI 11	17	36,738	69,801								
PAMI 03	16	32,331	61,428								
PAMI 04	15	21,176	40,235								
PAMI 07	15	48,149	92,992								
PAMI 02	14	37,393	71,047								
PAMI 08	13	80,727	153,381								

Population distribution

Parameter	Value
Min	9.1
Lower quartile	31.8
Median	54.8
Upper quartile	366.9
Max	6,114.0

Doses requirements and number of targeted hotspots

Year	Doses	Hotspot		
	Total requirement	# of PAMIs for first dose	# of PAMIs for second dose	# of PAMIs to be vaccinated
2023	1,566,316	6	5	6
2024	626,780	3	4	4
2025	1,232,188	4	3	4
2026	346,806	-	1	1
Total	3,772,090	13	13	15

ALIGNMENT WITH PAMI IDENTIFICATION CRITERIA & TOOL

- OCV WG and PAMI sub-group reviewed and streamlined criteria and tools
- Wording of criteria aligned across tools
- Tool structured to accept data sheet directly from PAMI tool
 - Where not collected for the PAMIs, any additional criteria data would need to be added
- Scoring automated to import PAMI final score into sheet
- Recommend countries complete OCV prioritization immediately after PAMI identification to increase efficiency

LESSONS LEARNT FROM PILOT

- Tool was piloted by DRC as part of their multi-year plan of action
 - Identified bugs in coding in the tool
 - Identified lack of adjustment to population growth for predicting vaccination need over multiple years
- Used by consultants, unclear how usable by cholera program

NEXT STEPS

- Update tool and guidelines per findings from DRC
- Pilot tool in Bangladesh, Cameroon, Kenya as they develop their OCV plan of actions
 - Monitor scoring and prioritization
- Disseminate tool to countries and online after final piloting
- Inform broader vaccine forecasting per year and compare against demand scenarios

Thank you

Together we can
#endcholera



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