GLOBAL TASK FORCE ON
CHOLERA CONTROL

PRIORITIZATION OF PAMIS FOR OCV USE

4 May 2023
GTFCC Surveillance TWG
Annual Meeting

PURPOSE

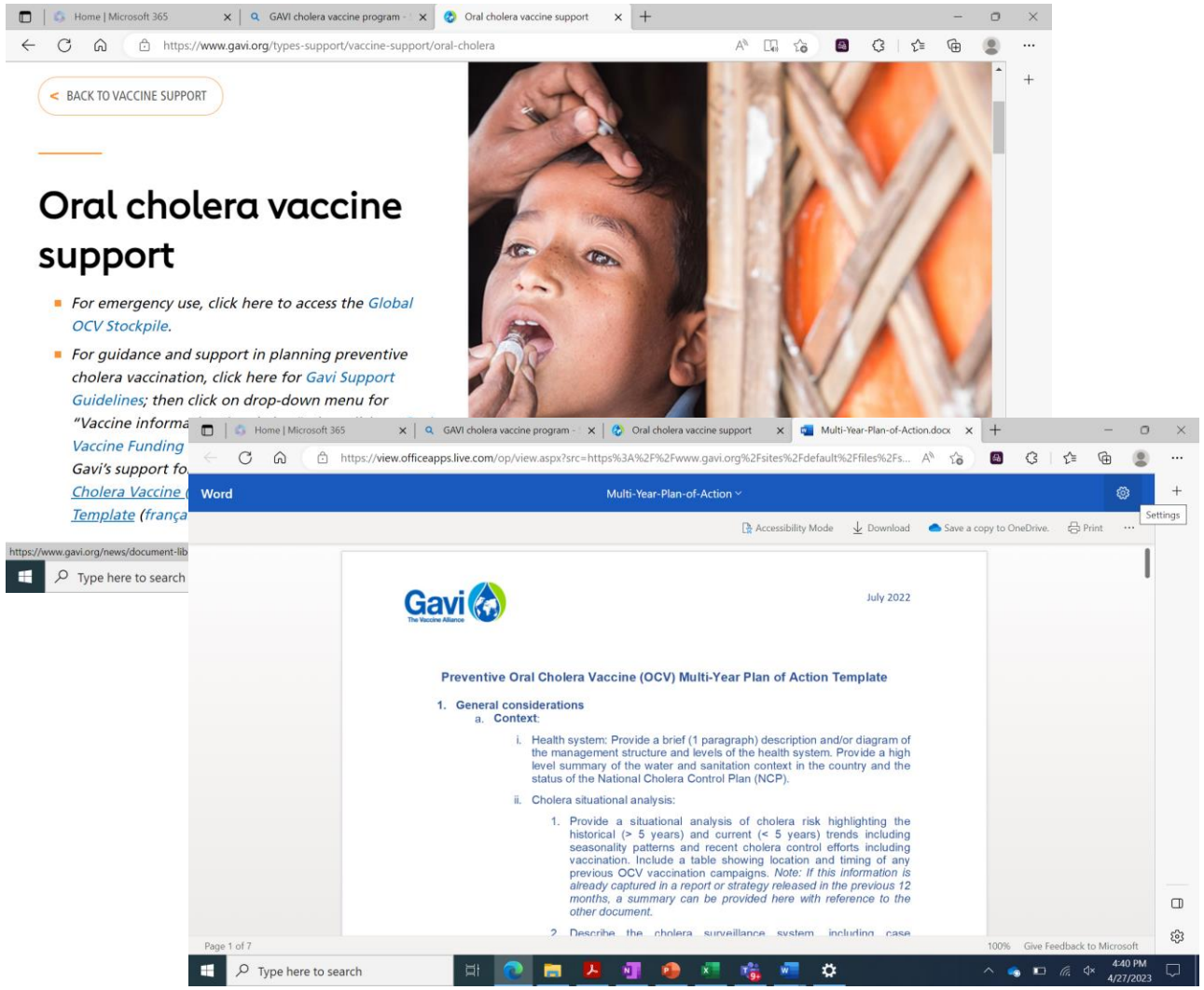
GTFCC Roadmap **axis 2**: multisectoral approach to prevent cholera in hotspots in endemic countries, including **using OCV as a bridge between emergency response and longer term control**

- 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 PAMIs by year for OCV

MYPs will inform vaccine forecasting



*based off the PAMIs 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

		Susceptibility		Vulnerability		Risk of transmission and spread						
		Historical OCV campaign?		High risk poulations (e.g., IDP, refugees, fishermen, etc)		Population density				Risk of importation/cross border/proximity		Score and
Name	PAMI score	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	Aread adjacent to cross-corder cholera affected areas or PAMIs	Risk of cross border transmission Score (Y=4; N=2)	Total score for OCV campaign
Name	PAMISc	CovAbove70	HistOcvScc	AtRiskPop	HighRiskScore	Area	Populatior	PopDensi	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			Additional comments
Name	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?	
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

	Doses	Hotspot		
Year	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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