Cholera Strategic Demand Scenarios 2022

v2022 Q4 SDS



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OCV working group meeting 7 October 2024

Summary

1. Purpose of this Oral Cholera Vaccine (OCV) forecast

- Provide a range of estimates for aggregate OCV demand in endemic and epidemic prone countries
- Serve as an input for OCV Roadmap and Tender procurement processes for the OCV preventive program

2. Scope and methodology of the forecast

- The forecast considers 47 endemic cholera countries in its scope
- Multiple scenarios reflect different trajectories of demand based on varying assumptions
- Forecast projects demand based on **incidence data**, at-risk population estimates, and estimated country introduction information
- Forecast considers a **diminishing at-risk population across time considering a positive impact from WASH** and parallel multi-sectoral efforts in reducing cholera burden of disease

3. Limitations

 Forecasted demand volumes use various assumptions including historical incidence data to determine risk areas to target for vaccination. Assumptions related to improvement in WASH, evolution of population at risk and speed of preventive campaign roll out are used to represent plausible scenarios of demand to capture the multiple pathways in which OCV demand may evolve. 2022 Strategic Demand Scenarios review: key assumptions



Assumptions for demand scenarios

		1	2	3	4	5	6	7
Higher	Demand Scenario	Target population*	Target population dynamics over time	Country adoption	Pace of adoption	Campaign frequency	Coverage	Product, wastage
	High B	Upper quartile (Q75) of JHU estimate of population in districts with incidence > 1 per 1,000	Flat until 2033, then decreases by 50% in 10 years	All High and Medium, 1/2 of Low confidence countries introduce	High confidence countries: 2021-2023 Medium: 2024-26 Low: 2027-28	Every 3 years	Volume calculation: 100%/100%	1-dose vial, with negligible wastage
	High A		Flat until 2033, then decreases by 90% in 10 years				FVP calculation: 90%	
	Medium B	JHU estimate of population in districts with incidence > 1 per 1,000	Flat until 2028, then decreases by 50% in 10 years	All High, and Medium; none of Low confidence countries introduce	High confidence countries: 2021-2023 Medium: 2024-26 Low: n/a	Every 4 years	Volume calculation: 100%/95%	
	Medium A		Flat until 2028, then decreases by 90% in 10 years				FVP calculation: 85%	
	Low	Lower quartile (Q25) of JHU estimate of population in districts with incidence > 1 per 1,000	Flat until 2025, then decreases by 90% in 5 years	All High; 2/3 of Medium; none of Low confidence countries introduce	High confidence countries: 2024-26 Medium: 2027-29 Low: n/a	Every 5 years	Volume calculation : 90%/85% FVP calculation: 75%	
Lower volumes			Scenario A represents fast decrease in target populations. Scenario B reflects gradual decrease in target populations in countries				G	avi

Note: Forecast model uses existing/ historical incidence data and projects demand in these areas. It does not account for changes in cholera transmission.

Total demand (outbreak and preventive) : High (A/B), medium (A/B) and low demand scenarios



Notes: Doses are not averaged. However, it has been assumed that countries will target their at-risk population in phases until the necessary revaccination interval. A "High", "Medium", and "Low" level of confidence for endemic use of the vaccine was assigned to each country based on consultation with stakeholders

Total demand scenarios (outbreak and preventive) excluding India



Notes: Doses are not averaged. However, it has been assumed that countries will target their at-risk population in phases until the necessary revaccination interval. A "High", "Medium", and "Low" level of confidence for endemic use of the vaccine was assigned to each country based on consultation with stakeholders.

THANK YOU

