MALAWI MALARIA VACCINE DECISION-MAKING FRAMEWORK-DATA

	Pre-licensure 5 years before licensure		Available da	ata - Phase 3	Licensure 2 years after licensure	Post-licensure 5 years after licensure			
Malaria disease burden	Reported Reported malaria-related epidemiological profile at the district level group (critical data) (critical data) (critical data)					MALARIA VACCINE INTRODUCTION D Update on current malaria situation (critical data)	Reported and confirmed clinical and severe malaria cases by age group (critical data)		
Other malaria interventions	Impact of existing malaria interventions (critical data) Country-specific impact of existing malaria interventions (critical data) Coverage of current interventions (critical data) Coverage of current interventions (critical data) Coverage of current interventions (critical data) Coverage of current interventions (critical data)					Changes in impact and cost-effectiveness of other malaria interventions	Changes in impact and cost effectiveness of other anti-malaria interventions (critical data)		
Malaria vaccine impact	Projected impact on mortality and morb (critical data)	roups	impact im otl int	arginal Impact on pact with epidemiology ner malaria and morbidity erventions by age group tical data)		Malaria vaccine coverage (critical data) Effectiveness, including impact on: • clinical disease • severe disease • anemia • parasitemia • mortality (critical data) Effectiveness study (critical data)			
Economical and financial issues		ctiveness estimates a vaccine			h National affordability effective- net (critical data) (critical data) estimate of a malaria vaccine (critical data)	Duration of donor subsidy Commitment (critical data)	Public health return on investment Updated cost- effectiveness data (critical data) Updated recurrent and indirect costs, including marketing and surveillance (critical data)		
Malaria vaccine efficacy, quality and safety	Safety Adverse events (critical data) (critical data)		Interaction with other vaccines (critical data)	impact on:	Efficacy in HIV+ Duration of populations efficacy of (critical data) (critical data)	Efficacy, quality, and safety data from other countries (critical data)	Post-licensure safety data (critical data)		
Programmatic considerations			stablished policy, regulatory, nal pathways to support	Demand Supply forecast availabil (critical data) (critical d	accommo	Defined targeted groups and a communica- (critical data)Evidence of established policy, regulatory and institutional institutional interventions (critical data)	Evidence of supply security (critical data)		
Socio-cultural environment			xpectations of malaria nical trial areas				Knowledge, attitudes, and practices about malaria vaccines, especially acceptability and compliance (critical data)		

MALAWI MALARIA VACCINE DECISION-MAKING FRAMEWORK-PROCESSES

	Pre-licensure 5 years before licensure				Licensure 2 years after licensure					Post-licensure 5 years after licensure	
National processes	Establishment of Technical Working Group (critical processes) Assess and strengthen regulator ethics and data management processes in-country (critical processes) Integrate the malaria vaccine in countries' multiyear strategic plans (4-5 years before) (critical processes)	Signal vaccine demand (1-3 years before) , Integrate use of malaria vaccine in national health policies Conduct advocacy to solicit government support	AVAILABLE DATA Engage local private-sector partners and pharmaceutical companies	- PHASE 3 Develop communication plan on the malaria vaccine (1 year before)	National regulatory authority reviews vaccine in consultation with technical working group (within 1 year of licensure) (critical processes) National expert group/technical working group issues recommendation regarding vaccine introduction (critical processes)	Advocacy with national decision makers and major stakeholders (critical processes) MOH makes a decision about integration of vaccine into EPI (critical processes)	Develop plan for procurement and resource mobilization for financial sustainability (critical processes)	MALARIA VACCINE INTE Incorporate malaria vaccine into national budgeting processes (critical processes) Elaborate the vaccine introduction plan and programmatic guidelines (logistics, training, pharmaco- vigilance) (critical processes)	Update the communication plan for implementation and engage media (one year after introduction) (critical processes) Examine	Monitor vaccine perfor- mance and safety (critical processes)	Monitor implementa- tion of the vaccine and evaluate impact on health system (critical processes)
Global processes	requirements into to le	duct global advocacy verage funding al processes)	Share information on vaccine research (critical processes)	Conduct global advocacy to leverage funding (critical processes)	recommending use of f vaccine	Donors provide funding to support vaccine (critical processes)	WHO publishes vaccine management and introduction guidelines (licensure) (critical processes)	WHO pre-qualification (within 1 year of licensure) (critical processes)	International agencies plan for procurement (within 1 year of licensure) (critical processes)	Monitoring performance evaluation impact, saf pharmacov	ce, including of vaccine ety, and

Key: National process Global process