

Annex
Comprehensive Vaccine Management/Immunisation Supply Chain: TA Menu Options

Core and Expanded partners including the Private Sector and Third Sector groups (Charities, CSOs, NGOs, SMEs, and other Voluntary groups)	
Country (national & subnational levels)	<p>1. DATA VISIBILITY & USE</p> <ul style="list-style-type: none"> • Advocate with EPI Managers the adoption of stock management best practices, including active monitoring, triangulation of appropriate and accurate programmatic and supply data, reporting and data use for action, and systems within national and subnational supply and logistics systems. • Advocate with EPI Managers including country visits, EPI managers meetings etc on the adoption of supply chain digitalization, support selection and introduction of TSS-compliant electronic Logistics Management Information Systems (eLMIS) while strengthening the ecosystem (people, processes, and policies) within which the eLMIS will exist. • Provide quality technical support to EPI to facilitate the following: <ul style="list-style-type: none"> • <i>To assess digital maturity to establish eLMIS systems or where such systems already exist, assess if these are being used properly and expand them(e.g., extend non-EPI systems to include EPI commodities), and support use of data for action from these systems.</i> • <i>Establish in-country mechanisms for routine monitoring and quarterly reporting of other SC data (including cold chain inventory updates, temperature monitoring data, CCE performance data, etc.)</i> • <i>Establish in-country mechanisms for routinely tracking and reporting standard SC indicators (DISC indicators, SC-related IA2030 indicators) as per standard reporting frequency.</i> • <i>Conduct at least annual SC performance assessments (e.g., EVM self-assessments leveraging EVM2.0 frameworks, SC Maturity Assessments) and use of findings to inform/refine SC improvement plans.</i> • <i>Establish/improve systems for routine monitoring and tracking closed vial wastage of vaccines from all causes in all cold stores and wastage data reporting on the country's vLMIS/reporting platform.</i> • <i>Establish systems for monitoring and tracking open vial wastage of vaccines at service delivery points and wastage data reporting on country's HMIS/reporting platform.</i> • <i>Routine monitoring and monthly reporting of stock-on-hand and consumption of vaccines and devices from all SC levels using appropriate data tools and reporting platforms.</i> <p>2. STRATEGIC PLANNING</p> <ul style="list-style-type: none"> • Provide quality technical support to EPI to facilitate the following: <ul style="list-style-type: none"> • <i>Development of multi-year cold chain inventory replacement and rehabilitation plans, using up-to-date cold chain inventory and assessment data, taking ongoing CCE procurement and deployment into consideration.</i> • <i>Development of waste management plans.</i> • <i>Advocating for government prioritization and domestic resource allocation towards end-to-end vaccine management improvement within EPI and PHC strengthening plans.</i> • <i>Establishment of functional NLWGs and subnational LWGs and/or strengthening of existing ones.</i>

Note: Areas in italics are aligned with the TA menu for comprehensive vaccine management

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	<ul style="list-style-type: none"> • Members of the NLWG to support countries with targeted assessment and monitoring of performance of iSC performance, especially with stock management, per EVM2.0 guidelines and iterative development and implementation of improvement plans. • <i>Undertake quarterly to bi-annual EVM cIP progress reviews and updates by NLWGs and subnational LWGs.</i> • Support the investigation of root causes of vaccine wastage (closed and open vial) per delivery strategy (fixed versus outreach versus campaign), development and implementation of a plan of action by EPI + NLWGs/SNLWGs to mitigate avoidable wastage. • Extending the reach of subnational LWGs in the implementation of vaccine management functions at the community level such as stock management and vaccine distribution especially in fragile, conflict and hard-to-reach communities to ensure that supply side barriers affecting underserved populations from being reached are addressed. • In focal countries/states, support development and implementation of end-to-end vaccine management improvement plans and monitor progress with implementation of these plans per EVM2.0 standards. • In focal countries/states, support periodic targeted assessment and monitoring of iSC performance, especially with stock management, per EVM2.0 guidelines and interactive development and implementation of improvement plans within a cycle of continuous improvement. • Collaboration between iSC and broader PHC and UHC systems and communities of practice. • <i>Conduct of periodic (quarterly at national/regional/state and monthly at district/health facility levels) physical stock counts of vaccines and syringes.</i> • <i>Establish systems for quarterly review of stock (incoming shipment quantities, stock-on-hand, consumption and wastage data, buffer utilization analyses), programme data (vaccine utilization, population, and coverage targets) and EPI interventions (past, existing and planned) by NLWGs and subnational LWGs.</i> • <i>Establish systems for quarterly forecast performance and accuracy reviews, required to validate country multi-year allocations by NLWGs and subnational LWGs.</i> • <i>Bottom-up vaccines and devices supply planning informed by triangulation of stock-on-hand, average consumption, available cold chain capacity and upcoming EPI interventions.</i> • <i>Undertake supportive supervision and on-the-job training of HCWs to ensure adherence to forecasting and supply planning and sharing best practices.</i> • <i>Strengthen vaccine and devices distribution and redistribution planning and implementation to ensure last mile vaccine availability.</i> <p>3. SYSTEM OPTIMIZATION & SEGMENTATION</p> <ul style="list-style-type: none"> • Provide quality technical support to EPI to facilitate the following: <ul style="list-style-type: none"> • Implementation of recommendations of supply chain analyses and operationalization of SC redesign activities. • Strengthening SC redesign efforts to improve bundled vaccine availability at the last mile. • Adoption by countries to use the WHO Vaccine Wastage Rates Calculator for improving forecast accuracy.
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	<ul style="list-style-type: none"> • Provide effective and efficient service to national and subnational governments (levels) for implementation and outsource vaccine management functions e.g, CCE maintenance, vaccine distribution, waste disposal and management. • Piloting and scale-up of innovations that will contribute to effective and efficient management of vaccines and related commodities. • <i>Piloting and scale-up of innovations that will contribute to effective and efficient management of vaccines and related commodities including areas like waste management.</i> • <i>Data-driven and bottom-up vaccines and devices forecasting based on accurate data and standard or where available verified country-specific parameters leveraging appropriate tools e.g, the WHO District Vaccine Wastage Calculator.</i> • Development or extension of Vaccine Accountability practices, leveraging lessons learned from the Polio programme to Routine Immunisation (RI) and vaccination campaigns. • Draw lessons from the system design and optimization studies to improve the iSC. • Conducting additional studies for System Design and optimization to evaluate/assess overall system costs. <p>4. CAPACITY DEVELOPMENT & PROFESSIONALIZATION</p> <ul style="list-style-type: none"> • Provide quality technical support to EPI to facilitate the following: <ul style="list-style-type: none"> • Capacity building and learning on EVMiSC for Government staff through supportive supervision and mentorship. • Keep up to date on new and emerging trends in vaccine management and provide high quality, unbiased technical assistance to national and subnational immunisation programmes. • Support the Establishment or strengthening of the National Logistics Working Groups (see UNICEF Agora NLWG Short course). • <i>Build capacity of health care workers on wastage rate monitoring, tracking, and reporting accuracy and completeness.</i> • <i>Regular review of wastage rates with on-the-job supportive supervision, at all levels of the supply chain, to mitigate closed vial and open vial wastage.</i> • <i>Build capacities of national and subnational EPI staff to perform these activities (review of wastage rates) independently, in medium term, and institutionalize processes and tools in the system for sustainability.</i> • Undertake supportive supervision of HCWs to reinforce stock management best practices. • Deployment of inventory management best practices, including processes and technologies and build HCWs capacity on these systems.
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5. FUNDAMENTAL INFRASTRUCTURE

- Provide quality technical support to EPI to facilitate the following:
 - Implementation of strategies to address supply side barriers to reaching zero dose populations and missed communities as per [Global Guidance](#).
 - Receipt, storage and distribution of emergency supplies and outbreak response activities.
 - Advocate for Polio and non-polio campaign-specific iSC support which include:
 - Identification and monitoring of bundled vaccine requirements for immunisation campaigns and deployment of adequate quantities sub-nationally.
 - Implementation of facility infrastructure improvement including solarisation.
 - Development and implementation of improved maintenance policies including planning of preventive maintenance activities, outsourcing, provision of spare parts etc.
 - Cold chain expansion and rehabilitation planning to meet programmatic needs including vaccine storage for emergency response.
 - *Routine cold chain inventory updates, active temperature monitoring and strengthen contingency planning systems.*
 - Monitoring of the maintenance activities.

6. SMART INTEGRATION AND HARMONIZATION

- Provide quality technical support to EPI to facilitate the following:
 - iSC and PHC commodity SC integration efforts.
 - Revalidation and where applicable revision of country EVM/iSC standard operating procedures (SOPs) and ensure that they incorporate [Global Guidance](#) on reaching zero dose populations and missed communities.
 - Assess the country's digital maturity to establish eLMIS systems or where such systems already exist, assess if these are being used properly and expand these (e.g., extend non-EPI systems to include EPI commodities), and support use of data for action from these systems
 - Explore opportunities for integration and advocate for integration of NLWGs and subnational LWGs with other health commodity supply chain technical working groups leading up to development of Supply Chain Master Plans for EPI and broader PHC.
 - *Adoption and implementation of alternate vaccine delivery mechanisms that ensure vaccine availability and reach to zero dose/missed, conflict/fragile, hard-to-reach communities and urban slums.*
 - Conduct operational research, such as country-specific Wastage Rate studies, to improve iSC quality.
 - Identify, monitor, and document the key drivers of vaccine wastage in countries, make and support implementation of recommendations to reduce avoidable vaccine wastage at all levels of the supply chain.