



VACCINE PROCUREMENT
Practitioners Network (VPPN)

Q&A SERIES

Strategic vaccine procurement

DISCUSSION WITH

GEORGIA

LIBERIA

Q&A SERIES

1

What is your approach to planning and demand forecasting for routine immunisation programmes? Could you please describe your processes, including the timing, demand forecast period, data used for demand forecast, etc.?

2

How do you secure funding for your vaccine requirements? What is the cycle for budgeting, and what is the timing of availability of funds?

3

How do you keep an overview of your forecasting, planning and budgeting processes, their steps, relative timelines and interdependency?

4

What is your approach to vaccine inventory management? What measures do you take to reduce the risk of stock outs? How do you deal with stock outs that are not due to your internal processes, but to production issues with suppliers?

5

Do you think that better aligning forecasting, planning and budgeting could help you avoid stock outs? What lessons learnt could you share about dealing with stock outs?

6

How do you manage coordination across planning, forecasting, budgeting and procurement, particularly the tensions between long-term procurement commitments and evolving epidemiological needs or budget constraints?

7

How do you ensure strong coordination between all stakeholders involved in the various processes tied with the procurement cycle?

8

How does your country integrate legal and regulatory processes into the procurement cycle to ensure they don't create bottlenecks or delays that undermine supply security, while maintaining the necessary quality assurance standards?

9

Do you develop a procurement strategy before initiating procurement? If yes, do you outline possible risks in your procurement approach, and risk mitigation strategies to assure procurement objectives are achieved?



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What is your approach to planning and demand forecasting for routine immunisation programmes? Could you please describe your processes, including the timing, demand forecast period, data used for demand forecast, etc.?



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- **Timing:** The determination of vaccine quantities needed for the following year begins in July-August. The forecast for vaccines procured through UNICEF is finalised by early September. Requests for quotations are issued in November, and payments processed in December. For vaccines not supplied by UNICEF (e.g., Hexaxim, Tetraxim), multi-year tenders are used, based on local legislation.
- **Demand forecast period:** Planning for UNICEF-procured vaccines is done annually, with deliveries split into one or two stages to optimise inventory management and shelf life. For non-UNICEF vaccines, a two-year schedule of needs and deliveries is established.
- **Data used for demand forecast:**
 - National Statistics Office data (population by age group),
 - vaccine wastage rates (calculated by municipality),



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- **Timing:** In Liberia, all vaccines are procured through UNICEF. The forecasting process starts in August every year and by September, an official submission is sent to UNICEF Supply Division. It also includes stock balances and an estimate of how long they can last, as well as a shipment plan, which defines delivery schedules based on stock levels.
- **Demand forecast period:** Our forecast is annual, based on the consumption pattern of the first eight months of the year and pre-empting the remaining four months. To that, we add a 25% adjustment factor or buffer stock, as we do not expect to see a greater consumption change.
- **Data used for demand forecast:**
 - population data from the Liberia Institute of Statistics and Geo-Information Services to derive the target population,

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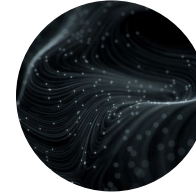
What is your approach to planning and demand forecasting for routine immunisation programmes? Could you please describe your processes, including the timing, demand forecast period, data used for demand forecast, etc.?



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- projected immunisation coverage rates,
- Previous year's number of missed vaccinations (drop-outs),
- performed vaccination data records,
- municipal primary healthcare centres' registration data,
- coverage rates and trends,
- 25% strategic buffer stock,
- vaccine stock balance.



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- surviving infant rate and birth cohort,
- vaccine stock balances, that are subtracted from quantities to be procured to avoid overstocking.

5
Do you think that better aligning forecasting, planning and budgeting could help you avoid stock outs? What lessons learnt could you share about dealing with stock outs?



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Coordination is vital. Planned volumes must accurately reflect existing needs, and delivery times must be clearly defined. Furthermore, proper planning should allow sufficient time to find alternative suppliers. We have built up sufficient buffer stocks to deal with such unforeseen circumstances. A **recent example** involved the MMR vaccine (Jeryl Lynn strain). When GSK suspended its production, our existing buffer stock allowed us to cover the gap while we switched to Merck's vaccine via the UNICEF mechanism. We temporarily procured a different strain until the supply chain was stabilised and then contracted another manufacturer who was able to provide us with the Jeryl Lynn strain of the MMR vaccine.



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Better panning, forecasting and budgeting as well as better aligning these processes effectively help solve supply chain challenges. But it must **start at the service delivery level**, in this case the healthcare facilities. Indeed, they play a critical role in forecasting population estimates and managing vaccine stocks. Healthcare facilities do monthly paper-based **reporting** to counties, which then use web-based stock management platforms to further report to the national level. If there are issues at the service delivery level, risks of over stock or stock outs appear. It is therefore crucial to make sure that **planning information from healthcare facilities** is taken into account.

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