Logistics of Reducing Impact of Communicable Diseases

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Supply Chain Management for Malaria

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Session Overview

• Background
• Supply chain considerations in managing malaria products
• Approaches to improve availability of malaria products
Background: who we are, what we do

- John Snow, Inc. (JSI)
  - Public health consulting firm established in 1978
  - Over 20 years experience working to ensure the availability of pharmaceuticals and other health supplies in Africa, Latin America and Asia

- USAID | DELIVER PROJECT, Task Order Malaria
  - Procured $260,000,000 worth of malaria products since 2007 for 21 African countries
  - Work to strengthen the public health supply chains in 12 African countries
Background: Malaria (Mal = Bad and Aria = Air)

- 250 million episodes of malaria annually, Africa accounts for 90%
- 750,000 deaths annually, 85% of which are in children under the age of 5
- Changing epidemic: endemic to epidemic, control to elimination
Background: malaria control, reduce the disease burden

- Suppress the vector
  - Indoor residual spraying
  - Insecticide treated nets
- Kill the parasite
  - Rapid diagnostic tests
  - Prompt and effective treatment
- Presumptive treatment
Supply chain considerations: Disease

- Seasonal with highest prevalence during rainy season
- High burden disease: top one or two causes of morbidity and mortality
- Fatal in children (24 – 48 hours if untreated)
- Simultaneous interventions: prevention, diagnosis, treatment
Supply chain considerations: Products

- High value, high demand
- Bulky
- Short shelf life
- Multiple presentations based on weight/age
Approaches: Build high performing systems

Characteristics of an integrated supply chain
- Clarity of roles and responsibilities
- Agility
- Streamlined processes
- Visibility of information
- Trust and collaboration
- Alignment of objectives
Approaches: Zambia supply chain pilot

Reduced duration of stock outs (in days)
Approaches: Specific malaria supply chain interventions

- Change approach for calculating average monthly consumption to account for seasonality
- Add tiers for areas inaccessible during rainy season
- Include days out of stock on reports
Thank you. Questions?