Health Emergency Preparedness

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7th June 2017
Health Emergency Preparedness

1. Preparedness
- Animaux domestiques
- Nb de cas chez l'Homme

2. Alert
- Forecast & monitoring
- Animal vaccine
- Early detection
- Vector control operations

3. Response
- Rapid response
- Amplification in domestic animals

4. Evaluation
- Prevention opportunity

NB: The yellow area represents the cases that can be prevented by the response operation.
Any views?
Health Emergency Preparedness in UNICEF: HEPI
# Health Emergency Preparedness in UNICEF: HEPI

<table>
<thead>
<tr>
<th>Category 1: Current epidemics of concern and focus diseases of epidemic/pandemic potential requiring the development of the full package of preparedness activities as detailed below.</th>
<th>Category 2: Endemic or epidemic diseases of potential threat/changing pattern that require additional attention and capacity building with the development of a basic support package of preparedness activities as detailed below.</th>
<th>Category 3: Epidemic diseases are of interest to UNICEF, but response will be limited to linking to existing resources as detailed below.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ebola, Marburg</td>
<td>Crimean-Congo Hemorrhagic Fever</td>
<td>Hantavirus</td>
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<tr>
<td>MERS, SARS, CoV</td>
<td>Lassa/Rift Valley Fever</td>
<td>Hepatitis E</td>
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<tr>
<td>Zika, Dengue, Chikungunya</td>
<td>Leptospirosis</td>
<td>Shigellosis</td>
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<td><strong>Avian Influenza, Pandemic Influenza</strong></td>
<td>Plague</td>
<td>Seasonal Influenza</td>
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<td>Choiera</td>
<td>West Nile Virus</td>
<td>Typhoid Fever</td>
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<td>Malaria</td>
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<td>Measles</td>
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<td>Meningitis</td>
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<td>Polio</td>
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<tr>
<td>Yellow fever</td>
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</tbody>
</table>

- **Supply list + LTA + Prepositioning + Supply Notes**
- **Supply list + LTA + Supply Notes**
- **Supply list**
# Health Emergency Preparedness in UNICEF: HEPI

## CATEGORY 1

### Category 1a
- 8 diseases
- Finalized & approved by DO

### Category 1b
- 5 diseases
- Final review by PD (end of March)
- Submission to DO planned for June 2017

### 1st HEPI supplies incorporation into ESL
- Approval date: 04-Jul-2016
- Number of item reviewed: **110**
- Value increase: $308,217

### 2nd HEPI supplies incorporation into ESL
- Pending submission to DO
- Number of item reviewed: ?
- Value increase: ?

### Total HEPI items incorporated into ESL: **110**
- HEPI Stock at SD WH: 75 items
- On PO being delivered to SD: 12 items
- At supplier: 15 items
- R&D: 8 items

### Initiating contracting activities of Category 1b items upon DO’s approval

### Drafts close to finalization: 4
- Pending: 4
- Additional notes: 2 (Zika RDT & Airborne/droplet PPE)

### Drafts close to finalization: 5
- Pending: 0
- Additional notes: 1 (cholera)
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**CATEGORY 2**
- 6 diseases
- Technical input and endorsement by Center Chiefs by 30-Jan-2017

**CATEGORY 3**
- 5 diseases
- Technical input and endorsement by Center Chiefs by Q1 2017

**Supply Lists** *(Technical)*
- N/A

**ESL** *(ECU)*
- N/A

**Prepositioning** *(Contracting)*
- LTA to be in place
- No prepositioning envisaged

**Supply Notes**
- Finalized draft: 0
- Pending: 6
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**Technical**
- **Q1-Q2**: Finalize supplies list for category 2 & 3
- **Q2**: Update of supply web catalogue with new standard stock items
- **Q3-Q4**: Global review of:
  - Disease categories
  - Supply lists
  - Quantification models

**Contracting**
- **Q1 – Q4:**
  - Finalize contracting of category 1a
  - Initiate contracting of category 1b
  - Initiate contracting of category 2

**Supply Notes**
- **Q1-Q2**: Finalize supply notes for category 1a and 1b
- **Q2**: Initiate supply notes for category 2
- **Q3**: Finalize supply notes for category 2
Health Emergency Preparedness in WHO
Health Emergency Preparedness in WHO

Multi-stepped quantification approach

1. Specify areas for which supplies are needed.
2. Configure modules to rationalize investment needs and cater for overlap across diseases.
3. Determine specific module configuration per disease.
4. Align quantities to match disease strategy and desired preparedness level (size of target population).
5. Build stockpiles and/or supply agreements to match desired response time.
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Supply Modules Status and Availability

Legend:
- Specified & available
- Specified
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Example: Dengue / Module configuration

- Sample Collection
- Common Items: Blood, Respiratory, Stool, Skin, Urine, CSF
- RDTs
- CHV: Cholera, Dengue
- Treatment: Botulism, Diphtheria, Influenza, Leptospirosis, Lassa Fever
- Fluid Management
- Oral drug
- IV Drug: IV Renewable
- Oxygen Therapy
- Renewable Equipment
- PPE
- Standard Precaution: Blood borne, Aerosol droplet
- Vector Control
- Equipment: Insecticides, PPE
- Infrastructure
- Shelter, Water
- Sanitation, Support, Fencing
- Strengthen PHC
- Basic Unit: Suppl. drugs, Suppl. controlled
- Suppl. Equipment, Suppl. Renewable, Basic Malaria
- Suppl. Malaria

Optional - can be added as warranted by respective context.
Pending | Input required

1. Size of target population needs to be defined by disease to align supplies quantities.
2. Desired response time by disease needs to be defined to create stockpile and/or supplier agreements.
3. Above will define budgetary needs for chosen preparedness level.
Health Emergency Preparedness: Pandemic Supply Chain Initiative
Why a Pandemic Supply Chain Network?

- **Vision:** A safer world through pandemic preparedness and response
- **Mission:** Create and sustain a global supply chain network to address Pandemics and public health emergencies of international concern (to support Member States? And humanitarian responders?)
- **Preamble:** The West Africa Ebola crisis and discussions at the World Economic Forum in Davos motivated private and public sector organizations to strengthen supply chain capacities for pandemic preparedness and response
Health Emergency Preparedness: Pandemic Supply Chain Initiative
Health Emergency Preparedness: Pandemic Supply Chain Initiative

Top 60 Pandemic Response Items

**Pharmaceutical**
- Vaccines
- Rehydration fluids and distributions sets
- Anti-inflammatories / pain relief
- Oral rehydration salts
- Antivirals
- Antibiotics

**Health Equipment**
- Personal Protection Equipment (PPE sets)
- Hospital beds
- Examination gloves
- Rubbing alcohol
- Oxygen and distribution sets
- Chlorine
- Sample collection and transport kits

**Logistics**
- Goods:
  - Storage units
  - Treatment units
  - Vehicles (trucks, cars, ambulances, motorbikes)
  - Communications equipment
  - Generators
  - Heavy handling equipment
  - Fuel, incinerators, Watsan
- Services
  - Transport + Handling (Passengers and Cargo)
  - Construction / Engineering
Health Emergency Preparedness: Pandemic Supply Chain Initiative

Pandemic Supply Management Model

Core Group
- Voluntary
- Flexible
- No Conflicts
- Connecting Stakeholders
- Pandemic/PHEIC
- Exchange Platform

“Peace Time”
- Quantification
- Knowledge sharing
- Tech Standards
- Connections
- Expertise
- Risk Assessments

“Response”
- Coordination
- Alignment
- Risk Management
- First Responders (as necessary)

Academia
Private Sector
NGOs
UN Agencies
Pandemic Supply Chain “Exchange” Platform

**Beneficiaries**
- Ministries of Health
- WHO (RO, CO)

**Core Group**
- WHO
- WFP
- UNICEF
- World Bank
- WEF
- NGOs
- Private Sector*
- Academia

**Private**
- Medical Suppliers
- Consumables Suppliers
- Logistics Providers
- Technology Providers

**Resources**
- Technical Standards
- Data
- IT Tools – Cristal, OPALS
- Infrastructure
- Staff
- Links with Network
- PEFF Links
- IHR
- Essential Items

**Roles & Services**
- Moderator of Supply Chain Network
- Terms of Use/Access
- Conflicts of Interest Management
- Operating Procedures
- Management of Working Groups
- Communications
- Monitoring of Supply Chain
- Build capacity of Member States
- Procurement capacity as necessary
- Data Collecting, Forecasting and Planning
- Scenario Development
- Validation and Quality Assurance
- Dissemination of Information
- “Matchmaking”
- Technical and Operational Guidance
- Provide first response capacity as necessary

**Value Proposition**
- Scalability of Response
- Access to Supply, Services, Expertise
- Visibility
- Preparedness, Readiness and Risk Mitigation

**Channels**
- Web Platform
- LTAs
- Working Groups

**Relationships**
- Interlocutor between MOH and Private Sector
- Membership Driven
- Peer-to-Peer

**Supply**

**Demand**

* No conflicts of interests

* Value Proposition
- Visibility
- Scalability & Agility to Respond & Support
- Access to Expertise and Innovation
- Confidentiality and Privacy

**Value Proposition**
- Connecting Supply with Demand (Products, Services, Expertise)
- Facilitation of Humanitarian Response
- Business Continuity
- Visibility
Working Groups

What is essential in Health Emergency Preparedness for a well-coordinated, rapid and efficient response?