Supporting a Regional Approach to AMR Detection and Response

Amber Vasquez, MD, MPH
International Infection Control Program
Division of Healthcare Quality Promotion

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IICP’s mission is to protect patients and healthcare workers globally by providing expertise, evidence, and implementation strategies to sustainably address infectious disease threats related to healthcare delivery.

• **Prevent Disease Transmission in Healthcare Settings** – IICP facilitates and strengthens capacity for implementation and evaluation of infection control programs and surveillance systems for healthcare-associated infections.

• **Detect and Contain Antimicrobial Resistance** – IICP assists countries in developing national AMR action plans and prevention programs as well as establishing surveillance systems.

• **Respond to Outbreaks** – IICP rapidly deploys scientists around the globe to investigate and control healthcare-related outbreaks.
Snapshot of IICP’s work in Southeast Asia Vietnam

**Improving IPC Capacity:**
- IPC model hospital network
- HAI surveillance
- Quality improvement projects to prevent HAIS
- Healthcare-related outbreak training and workforce development

**Combatting AMR:**
- Laboratory-based surveillance
- Microbiology laboratory mentorship and training
- Quality improvement projects to decrease CRE incidence and decrease antibiotic overuse
CDC’s Global AR Lab Network

New CDC Programs Combat AR Globally

The Global Action in Healthcare Network (GAIHN)
New CDC Programs Combat Antibiotic Resistance Globally

**CDC’s Global AR Lab Network**
- Rapid detection of antibiotic resistance
- Anywhere AR can occur: health care, community, food, environment
- Targeting emerging & AR Threats Report pathogens

**The Global Action In Healthcare Network (GAIHN)**
- Improve infection prevention & control
- Anywhere human health care is delivered
- Targeting infectious disease threats in health care (e.g., COVID-19, AR, Ebola)
Both networks build on domestic efforts and prevention needs and are grounded in successes and lessons learned in IPC and AR.

Both networks are supported by new CDC funding solicitations.

The healthcare AR module under GAIHN is one critical area that overlaps with the Global AR Lab Network.
Overview of CDC’s Global Action In Healthcare Network (GAIHN)
Global Action In Healthcare Network (GAIHN): A collaborative global RAPID ACTION network coordinated by CDC.

Vision of the Network

CDC’s vision is a global collaborative network consisting of countries, institutions, and partners at global, regional, national, and subnational levels working together to address priority emerging threats in healthcare settings through rapid detection and response.
The GAIHN Network

• A global “network of networks”
  • MOH-led or Investigator-led
  • National or decentralized
  • Local, national, regional, multi-national, global partners
• Collaborative platform with unified goals and targets
  • Sharing of protocols, experiences
  • Data sharing as appropriate
  • Data visualization to understand key measures and track performance
  • Notification to appropriate authorities (e.g., IHR, national reference labs, MOH)
The GAIHN Network

• **Focus initially on high-capacity facilities**
  • Demonstrate success and provide local, national, and regional best practices
  • Implementation science basis
  • “Trickle down” local expansion

• **Governance**
  • CDC led with partners
  • Global advisory committee
Targeting critical pathogens with rare AR mechanisms for containment.

Prioritization of pathogen/resistance combination for containment based on:

- Threat to healthcare settings
- At least one of the following:
  - High propensity for transmission
  - Highly virulent
  - Difficult to treat
- Non-endemic (based on the local epidemiology)
Timeline

- Pilot
- NOFO Spring ‘21
- Expansion FY22-25