

Capacity building needs for the development of environmentally friendly hospitals in Vietnam

Session IV – Challenges and Trends in Health Promoting Hospital
"Eco-Friendly Hospitals For A Sustainable World"

Nguyen Thi Lien Huong MD. PhD.
Director General
Health Environment Management Agency
Ministry of Health
Viet nam

22 Feb 2016

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1. Background information

Total population (2015)	91,700,000
GDP per capita (2015) US\$	2,300
Life expectancy at birth m/f (years)	73/77
Probability of dying under five (per 1000 live births)	17
Total expenditure on health as % of GDP (2015)	6,4

2. Current situation on medical waste management

Total of healthcare facilities in Vietnam: **13,721**

(Sectoral and private facilities are not included)

Including:

- Hospitals:
1,300
- Preventive medicine facilities: **1,037**
- Medical training facilities: **100**
- Drug manufacturing facilities: **180**
- Commune health stations : **11,104**

2. Current situation on medical waste management (*cont.*)

2.1. Medical waste generation from hospitals

- Average volume of wastewater discharged from hospitals is about 0.4 - 0.6 m³/patient-bed/day and night. Total volume of the whole country: 125,000 m³/day and night.
- Hazardous solid waste generated from hospitals accounts 10 – 20% total of medical waste. Whole country: 47 tons/day

2. Current situation on medical waste management (cont.)

2.2. Hazardous medical solid waste (HMSW) disposal in hospitals

- Classification and collection: *100% of hospitals collects HMSW daily. But only 50% of hospitals classifies and collects HMSW properly.*
- Disposal:
 - + *84.6% of hospitals hires environment companies for collecting and treating HMSW, or on-site self-handling by proper treatment system.*
 - + *15.4% of hospitals treats HMSW by improper methods, i.e waste burial, chemical method...*

2. Current situation on medical waste management (*cont.*)

- Medical wastewater disposal
 - + 72% of hospitals has medical wastewater treatment systems.
 - + 28% of hospitals needs to build wastewater treatment system (mostly hospitals in the mountainous and remote areas).

3. Achievements on medical waste management

3.1. Medical waste management system set up

- MONRE: State management of environment protection, responsible for managing transportation and treatment of medical waste outside healthcare facilities
 - Environment Agency
- MOH (VIHEMA): State management of medical waste inside healthcare facilities
 - Health Environment Management Agency
- Provincial people committee: State management of medical waste of the province.
 - Provincial Department of Environment and NR
 - Provincial Department of Health

3. Achievements on medical waste management (cont.)

3.2. Development of legal documents, standards and technical guidelines

- Law and other under Law documents medical waste management (MWM) developed.
- National standards (QCVN) on:
 - *medical wastewater;*
 - *emissions from incinerators;*
 - *autoclaves for medical waste disposal.*
- Technical materials and guidelines on MWM and disposal technologies.

3.3. Capacity building and communication:

- Training materials on MWM for various types of trainees.
- Mass media broadcasting

3. Achievements on healthcare waste management (cont.)

- 3.4. Construction of medical waste treatment has been invested for over 200-bed hospitals and hospitals causing serious environmental pollution (loan from the WB, state and provincial budget and other sources)
- 3.5. Some public-private partnership (PPP) projects on healthcare waste disposal have been being implemented.
- 3.6. Piloting models of good medical waste management in hospitals, including:
 - Green, clean and healthy hospital movement
 - Water, Sanitation and Hygiene (WASH) in healthcare facilities



Classification of MHW



Classification and collection of medical waste



Medical waste storage

4. Key challenges

- Lack of budget for investment, O&M of medical waste treatment systems.
- Limited knowledge and attitude of hospital leaders on environmental sanitation and MWM.
- Low capacity of professional staff who work for MWM.
- Lack of knowledge and guidelines on implementation of environmentally friendly hospitals.
- Lack of good environmentally friendly hospital models

5. Needs for the development of environment-friendly hospitals in Vietnam

- Mobilizing resources and funds for MWM and development of environmentally friendly hospitals
- Developing policy, legal documents and guidelines for implementation of environmentally friendly hospitals
- Training, communication, lesson sharing for strengthening capacity, knowledge on MWM, environmentally friendly hospital model
- Developing and implementing environmentally friendly hospital models
- Expanding environmentally friendly hospital model.

Thank you for your attention!



Halong Bay

International Network for Health Promoting Hospitals & Health Services

The Task Force on Health Promoting Hospitals and Environment

Asia-Pacific Regional Symposium 2016

Eco-Friendly Hospitals For a Sustainable World

22-23 February 2016 | Griffith University | Brisbane | Queensland | Australia



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AN INTERNATIONAL KNOWLEDGE AND PRACTICE-SHARING REGIONAL SYMPOSIUM ON

"ECO-FRIENDLY HOSPITALS FOR A SUSTAINABLE WORLD"
MONDAY, 22nd Feb 2016

Griffith University, Nathan Campus

Hosted by The Task Force on Health Promoting Hospitals and Environment
of International Health Promoting Hospitals and Health Services Network
and co-hosted by Griffith University

Venue: Griffith University Nathan Campus, Building N18 (Central Theatre), Theatre II

Nguyen Thi Lien Huong, M.D, Ph.D

General Director

Health Environment Management Agency

Ministry of Health, Vietnam

**Address: Alley 135/1 Nui Truc, Ba dinh,
Hanoi, Vietnam**

Email: huongntl.mt@moh.gov.vn