# 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"

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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 m<sup>3</sup>/patient-bed/day and night. Total volume of the whole country: 125,000 m<sup>3</sup>/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

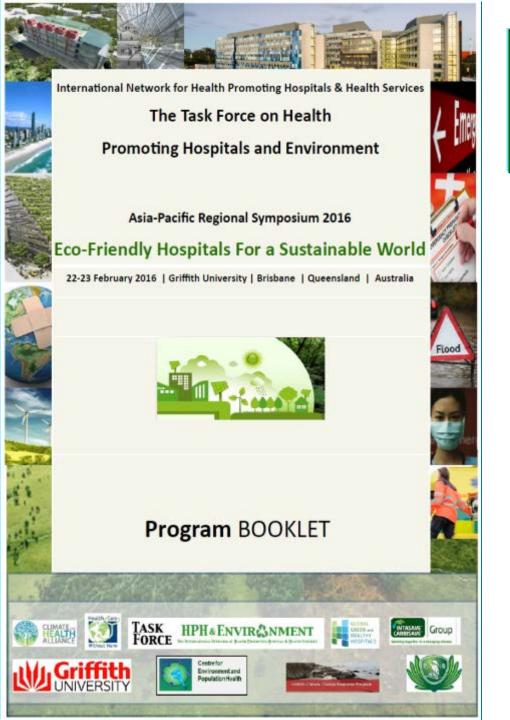
### 5. Needs for the development of environmentfriendly hospitals in Vietnam

- 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** 



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