Health Impact Conceptual Model

Economic impact

Social impact

Health impact

Socio-demographic parameters
- Age
- Sex
- Social status
- Population density

Health behavior parameters
- Health seeking behavior
- Health K-A-P-B* (knowledge, attitude, practice, belief, behavior)
- Psychosocial context
- Cultural context

Epidemiological Parameters
1. Mortality
2. Morbidity:
   - Baseline health status
   - Baseline disease distribution
   - Nutritional status
   - Injury / trauma
   - Infectious diseases
   - Non-infectious diseases
   - Chronic diseases
   - Disability
   - Mental health status

Health care system parameters
- Care, service, & quality
- Resources & Assets
- Coverage, accessibility, availability, affordability, utilization
- Surveillance
- International, national & local policy and regulations
- Health care programs
- Global health initiatives

Environmental parameters
- Water and sanitation system
- Food availability
- Shelter and housing
- Geographical topography
- Land and soil use practices
- Vector breeding sites
- Pathogen endemicity
- Chemical contamination risk
- Weather conditions
- Infrastructure conditions

* K-A-P-B: knowledge, attitude, practice, belief, behavior
Health Impact Conceptual Model

**Economic impact**

**Social impact**

**Disaster**

**Health care system parameters**
- Infrastructure/physical assets
- Accessibility, availability, affordability
- Coverage
- Quality
- Population service utilization
- Surge capacity for emergency response
- Resources- availability and distribution

**Epidemiological Parameters**
1. Mortality
2. Morbidity:
   - Baseline health status
   - Baseline disease distribution
   - Injury / trauma
   - Infectious diseases
   - Non-communicable diseases
   - Chronic diseases
   - Nutritional status
   - Mental health status
   - Disability

**Health behavior parameters**
- Health seeking behavior
- Health K-A-P-B* 
- Cultural context
- Perception of early warning

**Socio-demographic parameters**
- Age
- Sex
- Social status
- Population density

**Environmental parameters**
- Water and sanitation system
- Food availability
- Shelter and housing
- Geographical topography
- Vector breeding sites
- Pathogen endemicity
- Chemical contamination risk
- Temperature
- Land and soil use practices
- Infrastructure conditions

* K-A-P-B: knowledge, attitude, practice, belief, behavior
Health Impact Conceptual Model

Economic impact

Social impact

Health impact

Socio-demographic parameters
- Age, sex,
- Marital and social status
- Handicap
- Social determinants

Environmental parameters
- Water and sanitation
- Vectors and breeding places
- Disease reservoir
- Chemical contamination
- Soil and land use practices
- Infrastructure condition

Epidemiology parameters
- Mortality
- Infectious Disease
- Non-infectious Disease
- Injury / trauma
- Disability
- Chronic illnesses
- Nutritional problem
- Mental Health

Health care systems parameters
- Care/ Service
- Resource/ Asset
- Surveillance
- Nat. & int. policy & regulations
- Nat. & int. programs and initiatives
- Accessibility

Health behavior parameters
- Health seeking behavior
  - Health K-A-P-B*
  - Psychosocial context
  - Cultural context

* K-A-P-B: knowledge, attitude, practice, and belief

Disaster

Unsafe conditions

Dynamic pressure

Interventions: maintenance and development and reconstruction

Root causes

Hazard
Health Impact Conceptual Model

**HAZARD**

- Social Impact
- Economic Impact

**HEALTH IMPACT**

- Health Behavior Parameter
  - Treatment Seeking Behavior
  - Health K-A-P-B
  - Psychosocial context
  - Cultural context

- Epidemiology Parameter
  - Mortality
  - Infectious Disease
  - Non-infectious Disease
  - Injury / Trauma & Disability
  - Nutritional problem
  - Chronic illnesses
  - Mental Health

- Enviro Health Parameter
  - Water and sanitation
  - Vectors and breeding places
  - Disease reservoir
  - Chemical contamination
  - Soil and land use practices
  - Infrastructure condition

- Health Care Parameter
  - Care / Service
  - Resource / Asset
  - Surveillance
  - Policy & Regulation (nat & Int.)
  - Nat. & int. programs and initiatives
  - Accessibility

**DISASTER**

- Unsafe Conditions
- Environmental Health Parameter
- Development and reconstruction