1. Overview

1.8. Flow Charts for Emergency Management

1.8. Flow Charts for Emergency Management
Overhead Transparencies

1.8.1. Disasters and Health, General Flow Chart
1.8.2. Earthquake and Disaster Response, Flow Chart
1.8.3. Drought and Health Response, Flow Chart
1.8.4. Floods and Health, Flow Chart
1.8.5. Landslide and Health, Flow Chart
1.8.6. Volcanic Eruption and Health Response, Flow Chart
1.8.7. Epidemic Emergencies, Flow Chart
1.8.8. Fires and Health, Flow Chart
1.8.9. Food and Emergencies, Flow Chart
1.8.10. Violence and Public Health, Flow Chart
1.8.11. Displacement and Health, Flow Chart
1.8.12. Refugee and Internally Displaced Populations, Flows, Occasions and Priorities for Assistance
1.8.13. Essentials for Contingency and Preparedness Planning for the Health Sector, Summary
1.8.14., 1.8.15. Essentials for Contingency and Preparedness Planning for the Health Sector, Hand out
1.8. **Flow Charts for Emergency Management**

**Trainers' Guide**

**Objectives:**
*To show that Epidemiology is relevant to emergency management; to clarify causal chain in disasters; to highlight elements of health preparedness and response.* (Knowledge/Attitudes)

**Key-message:**
*One can plan for emergency management, on the basis of good sense.*

1.8.1. **Disasters and Health, General Flow Chart**

Introduce. *This is a frame, which can be filled for any disaster. The result is a plan for health response activities. Each emergency has specific implications for the health sector, direct and indirect. Direct impact of floods is drowning and trauma. Indirect impact can be a diarrhoea outbreak due to pollution of water sources. Associated factors will be the displacement of population and the destruction of infrastructures that will hamper the delivery of health care. Health Response must consider all these different issues.*

1.8.2. **Earthquake and Disaster Response, Flow Chart (Present and discuss).**

1.8.3. **Drought and Health Response, Flow Chart (Present and discuss).**

1.8.4. **Floods and Health, Flow Chart (Present and discuss).**

1.8.5. **Landslide and Health, Flow Chart (Present and discuss).**

1.8.6. **Volcanic Eruption and Health Response, Flow Chart (Present and discuss).**

1.8.7. **Epidemic Emergencies, Flow Chart (Present and discuss).**

1.8.8. **Fires and Health, Flow Chart (Present and discuss).**

1.8.9. **Food and Emergencies, Flow Chart (Present and discuss).**

1.8.10. **Violence and Public Health, Flow Chart (Present and discuss).**

1.8.11. **Displacement and Health, Flow Chart (Present and discuss).**

1.8.12. **Refugee and Internally Displaced Populations, Flows, Occasions and Priorities for Assistance**

Present and discuss. *Population displacement caused by whatever hazard. All the phases are present. The response activities are shown in the boxes with round edges. Health care can be delivered in different measure and in different ways at all stages.*

1.8.13. **Essentials for Contingency and Preparedness Planning for the Health Sector, Summary**

Explain. *The summary can be shown in transparency, while the two-page table is distributed as handout. Underline the difference between the ‘Primary Hazard’, e.g. the Transport Incident, and the ‘Primary Cause of Death or Illness’, e.g. the Trauma. Clarify*
that the first responsibility of the Health Sector is to address the Primary Causes of Death or Illness. The capacities needed can be Technical, i.e. human resources and training, and Institutional, i.e. equipment, supplies, legislation, clear procedures, etc.

1.8.14., 1.8.15. Essentials for Contingency and Preparedness Planning for the Health Sector, Hand-out

*A two-page table, to be distributed as handout.*

Complementary to *The health sector* in Emergency Management (1.3.).

**Essential Reading:**
1.8.1. Disasters and Health, General Flow Chart

Disasters and Health

VULNERABILITY

HAZARD

DISASTER

DIRECT IMPACT

INDIRECT IMPACT

ASSOCIATED FACTORS

HEALTH RESPONSE
1.8.2. Earthquake and Disaster Response, Flow Chart

**Earthquake and Disaster Response**

- Search and Rescue
- Triage
- First Aid
- Medical evaluation
- Special Delivery
- Intensive Care
- Personnel: professionals and volunteers
- education, training and drills
- Supplies and equipment
- Hospital preparedness plans and drills
- Hospital vulnerability assessment
- Protection and contingency plans
- Back-up systems:
  - Decentralized standby capacities
  - Generators, etc.

**Loss of Health Facilities and Services**

- Asphyxia
- Hypothermia
- Trauma
- Drowning
- Burns
- Acute and chronic intoxications
- Acute respiratory distress
- Electrocution

**Loss of Other Lifelines**

- Landslides
- Entrapment
- Transport incidents
- Floods
- Fire
- Toxic spills
- Dust
- Damage to electric lines

- Collapse of structures

**Health Response**

**Special Budget**

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1.8.3. Drought and Health Response, Flow Chart

**Drought and Health Response**

- **Drought**
  - Water Shortage
  - Crop Failure
  - Loss of Livestock

- **Reduced Food Intake**
  - Loss of buying power
  - Migration

- **Diarrhoea**
  - Cholera
  - Typhoid Fever
  - Skin diseases
  - Eye diseases, etc.

- **Malnutrition**
  - Avitaminoses

- **Other Illness**

**HEALTH RESPONSE**

- Epid. Surveillance
  - Control Guidelines
  - Training & supplies
  - Staff

- Nut. Surveillance
  - Guidelines for supplementation & Rehabilitation Training
  - & supplies staff

- Programme
  - strengthening EPI, MCH, ED, H.
  - Information referral

- Special plans, policies & procedure

- Special budget
1.8.4. Floods and Health, Flow Chart

Floods and Health

- Drowning
- Traumas
- Breeding of vectors
- Malaria
- Breeding of vectors
- Diarrhoea
- Loss of production and stocks
- Malnutrition
- Destruction of infrastructure
  - Loss of shelter
  - Loss of access to PHC
  - Damage to communications & Health Facilities
  - Displacement
  - Other illness

CAPACITY FOR HEALTH RESPONSE
1.8.5. Landslide and Health, Flow Chart

**Landslide and Health**

- **Loss of shelter and production**
- **Changes in environment**
- **Damage to Infrastructures**
- **Displacement & temporary Shelter**
- **Pollution of Water**
- **Breeding of Vectors**
- **Loss of Access to Health**

<table>
<thead>
<tr>
<th>HEALTH RESPONSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Search and Rescue First Aid Medical Evacuation Hospital emergency care Training Personnel and Materials</td>
</tr>
<tr>
<td>2. Surveillance Guidelines for treatment and control Training Personnel and Materials</td>
</tr>
<tr>
<td>3. Strengthening Programmes: EPI, MCH, HIE, vector control Rehabilitation of infrastructures</td>
</tr>
<tr>
<td>4. Special Strategies, Plans and Procedures</td>
</tr>
</tbody>
</table>

**Special Budget**
Volcanic Eruption and Health Response

Volcanic Eruption

- Pyroclastic Flows
  - Mud streams
- Lava flows
- Ashes
- Gases
- Steam
- Earthquake

People’s panic

Destruction of Infrastructures

Evacuation and Temporary Shelter

- Traumas
- Burns
- Acute respiratory distress
- Asphyxiation
- Intoxication
- Suffocation
- Drowning

HEALTH RESPONSE

- Search and Rescue
- Triage
- First Aid
- Special Intensive Care
  Personnel: Supplies, equipment
- Hospital preparedness plans
- Risk Mapping Vulnerability Assessment
- Education and Information
- Early Warning

SPECIAL BUDGET

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Epidemic Emergencies

Outbreak of Infectious Disease

Spread of Infection

Specific Illness & Death

In the Community

In Health Facilities

Risk for Health Workers

Difficult Access

Agent Unknown

HEALTH RESPONSE

• Search and Rescue
  • Triage
  • First Aid
  • Medical evaluation

• Special Delivery Intensive Care

• Personnel: professionals and volunteers education, training and drills
  Supplies and equipment

• Hospital preparedness plans and drills

• Hospital vulnerability assessment

• Protection and contingency plans

• Back-up systems:
  • Decentralized stand-by capacities
  • Generators, ect.

SPECIAL BUDGET
1.8.9. Food and Emergencies, Flow Chart

Food and Emergencies

- Drought
- Pests
- Floods
- Other natural hazard
- War
- Political crisis
- Economic crisis
- Other man-made hazard
- Environmental pollution
- Other man-made hazard

Failure of Production
Failure of Distribution
Community’s vulnerability
Household’s vulnerability

Loss of Access to Food

Emergency

Large-scale Food Contamination
Violence and Public Health: scenario in complex emergencies and conflicts

<table>
<thead>
<tr>
<th>Occurrence</th>
<th>IMPACT UPON HEALTH</th>
<th>Associated Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attacks on Health facilities</td>
<td>Military operations</td>
<td></td>
</tr>
<tr>
<td>Loss of access to safe water</td>
<td>Destruction of infrastructures</td>
<td></td>
</tr>
<tr>
<td>Breakdown of logistics and communications</td>
<td>Occurrence</td>
<td></td>
</tr>
<tr>
<td>Loss of production &amp; stocks</td>
<td>Diarrheas</td>
<td></td>
</tr>
<tr>
<td>Loss of purchasing power</td>
<td>A.R.I</td>
<td></td>
</tr>
<tr>
<td>Displacement of commercial network</td>
<td>Parasites</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Measles</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Malnutrition &amp; deficiencies</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Economic crisis</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Global Mortality</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Migration</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Reduction of State Budget for Health</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Tensions with donors</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>International assistance</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Relief operations</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td>Capacity of Response of the National Health Services</td>
<td></td>
</tr>
<tr>
<td>Displacement</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WAR

Displacement

Camps

Destruction of infrastructures

Violent Mortality & Mortality

Displacement

Priority to defense

Loss of production & stocks

Loss of purchasing power

Destruction of commercial network

Economic crisis

Tensions with donors

International assistance

Relief operations

Reduction of State Budget for Health

Malnutrition & deficiencies

Measles

Parasites

Diarrheas

A.R.I

Global Mortality

Capacity of Response of the National Health Services

WHO/EHA/EHTP

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1.8.11. Displacement and Health, Flow Chart

Displacement and Health

Economic Crisis

Demographic Pressures

Environmental Crisis

Political Crisis

Natural Disaster

Man-made Disaster

Internally Displaced People

Refugees

New Hazards and greater vulnerability
- Loss of assets & entitlements
- Overcrowding
- Poor access to water
- Poor shelter & sanitation
- Poor food security
- Loss of social networks
- New environment
  - New hazards lack of information

Greater Risk of Illness and Death

Overload on the resources and services of the host area

New Hazards and greater vulnerability
- Loss of assets & entitlements
- Overcrowding
- Poor access to water
- Poor shelter & sanitation
- Poor food security
- Loss of social networks
- New environment
  - New hazards lack of information

Greater Risk of Illness and Death

Overload on the resources and services of the host area
1.8.12. Refugee and Internally Displaced Populations, Flows, Occasions and Priorities for Assistance

Disaster

Destruction of infrastructures

Flight of the Population

Massive

Individual/by household

Fugitives return to the area of origin

Fugitives gather spontaneously

Rescue team gather and organize the fugitives

Fugitives move into another, existing village

Spontaneous settlement

Transit/reception centre

PRE-POSITION:
- Security
- Water/buckets/soap
- Food/pots/fuel
- Shelter/blankets
- Sanit./vector control
- Screening/referral
- Epid. Surveillance
- essential drugs
- EPI.

ENSURE:
- Security
- Water
- Food
- Shelter
- Sanitation
- PHC
- Education
- Family tracing
- Land
- Seeds & tools
- Commerce

Integration in the host community

ENSURE:
- Cooked food
- Shelter /blankets
- Buckets/ soap
- Sanitation
- screening/referral
- epid. surveillance
- Essential drugs
- EPI
- Information on existing services

STRENGTHEN:
- Water
- Food
- Shelter
- Sanitation
- PHC
- Education
- Family tracing
- Land
- Seeds & tools

Rehabilitation of the area of origin

RETURN

RESETTLEMENT

Production and Self-sufficiency
### 1.8.13. Essentials for Contingency and Preparedness Planning for the Health Sector, Summary

#### Essentials for Contingency Planning and Preparedness Planning for the Health Sector

<table>
<thead>
<tr>
<th>Type of Emergency</th>
<th>Primary Hazard</th>
<th>Primary Causes of Death &amp; Illness</th>
<th>Main Responsibility of the Health Sector</th>
<th>Risk to Health Network</th>
<th>Capacities Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epidemics of Infectious Origin</td>
<td>Known disease</td>
<td>Agent-specific</td>
<td>Alert &amp; Assessment, Case management, Outbreak control</td>
<td>+</td>
<td>Epidemiology &amp; Disease control, Medical/Nursing care, Environmental health, Communications, Laboratory facilities &amp; supplies, Inter-sectoral collaboration, Funds</td>
</tr>
<tr>
<td>Emergencies by Other Natural Causes</td>
<td>Floods</td>
<td>Drowning, Trauma, Diarrhoea, ARI, Vector-borne diseases</td>
<td>Search &amp; Rescue, Triage, Need assessment, Disease control, Assistance in temporary shelter</td>
<td>+</td>
<td>Mass casualty management, Environmental health &amp; Vector control, Health care in temporary shelter Special training for staff &amp; volunteers, Inter-sectoral collaboration, Coordination of relief Intensive care facilities</td>
</tr>
<tr>
<td>Emergencies from Technological Causes</td>
<td>Transport Incident (Road, railways, air, sea etc.)</td>
<td>Trauma, Drowning, Burns, Suffocation</td>
<td>Search &amp; Rescue, Triage, Casualty Management</td>
<td>+</td>
<td>Mass casualty management</td>
</tr>
<tr>
<td>Complex Emergencies</td>
<td>Armed Conflict</td>
<td>Trauma, Malnutrition, ARI, Diarrhoea, Measles, Meningitis, Vector-borne Diseases</td>
<td>Need assessment &amp; advocacy, Disease control, Nut. surveillance &amp; Selective feeding, Injury management</td>
<td>+++</td>
<td>Epidemiology &amp; Disease control, Nutrition, War surgery, Health care in temporary shelters Special agreements &amp; procedures, War surgery facilities/capacities, Safe transfusion facilities, Coordination, International aid</td>
</tr>
<tr>
<td>Major Public Functions</td>
<td>Pilgrimage</td>
<td>Epidemic diseases, Illness among spectators, Crowd incidents (stampede etc.)</td>
<td>Disease control, Readiness for crowd incidents, Back-up for increased demand</td>
<td>-</td>
<td>Epidemiology &amp; Disease control, Environmental health, Mass casualty management Intensive care facilities, Temporary outreach facilities</td>
</tr>
</tbody>
</table>

*WHO/EHA/EHTP Draft 1-1999*
### Essentials for Contingency Planning and Preparedness Planning for the Health Sector

<table>
<thead>
<tr>
<th>Type of Emergency</th>
<th>Primary Hazard</th>
<th>Primary Causes of Death &amp; Illness</th>
<th>Main Responsibility of the Health Sector</th>
<th>Risk to Health Network</th>
<th>Capacities Needed</th>
<th>Technical</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Epidemics of Infectious Origin</strong></td>
<td>Known disease</td>
<td>Agent-specific</td>
<td>Alert &amp; Assessment, Case management, Outbreak control</td>
<td>+</td>
<td>Epidemiology and Disease control, Medical/Nursing care, Environmental health,</td>
<td>Communications, Laboratory facilities &amp; supplies, Inter-sectoral collaboration, Funds</td>
<td></td>
</tr>
<tr>
<td><strong>New Emerging Disease</strong></td>
<td>Agent-specific</td>
<td>Alert &amp; Assessment, IDENTIFICATION OF AGENT Case management, Outbreak control</td>
<td>+</td>
<td>As above, plus field research, crash training of personnel, new, specific health education possibly Cordon Sanitaire</td>
<td>As above, plus access to more sophisticated Reference Centers, greater capacity for Isolation, special drugs or vaccines</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Emergencies by Other Natural Causes</strong></td>
<td>Mass Floods Poisoning by nature causes</td>
<td>Agent-specific</td>
<td>Assessment identification of cause case management information and education</td>
<td>–</td>
<td>Epidemiology Medical/Nursing care Education</td>
<td>Communication, Logistics and Funds for Outreach. Supplies inter-sectoral collaboration and coordination of relief</td>
<td></td>
</tr>
<tr>
<td><strong>Drought</strong></td>
<td>Diarrhoea, Malnutrition, Any other cause, by decreased access to health services and higher vulnerability</td>
<td></td>
<td>Need assessment disease control Nutritional surveillance</td>
<td>+</td>
<td>Disease control, Nutrition.</td>
<td>Special training for staff and volunteers Inter-sectoral collaboration and coordination of relief</td>
<td></td>
</tr>
<tr>
<td><strong>Floods</strong></td>
<td>Drowning, Trauma, Diarrhoea, ARI, Vector – borne diseases</td>
<td>Search &amp; Rescue/Triage Need assessment Disease Control Assistance in temporary shelters</td>
<td>+</td>
<td>Mass Casualty Management Env. Health/Vector Control Health Care in temporary shelters</td>
<td>Intensive Care facilities Hospital vulnerability assessment and reduction</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cyclone</strong></td>
<td>Trauma, Drowning, Diarrhoea, ARI, Vector – borne diseases</td>
<td>Same as above</td>
<td>+</td>
<td>Same as above</td>
<td>Same as above</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tidal Surge and Tsunami</strong></td>
<td>Drowning, Trauma, Diarrhoea, ARI, Vector – borne diseases</td>
<td>Same as above</td>
<td>+</td>
<td>Same as above</td>
<td>Same as above</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Earthquake</strong></td>
<td>Trauma, Suffocation, Burns</td>
<td>Search &amp; Rescue/Triage Need assessment Casualty management Assistance in temporary shelters</td>
<td>++</td>
<td>Mass Casualty Management Health Care in temporary shelters</td>
<td>Intensive Respiratory Care Unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Landslide</strong></td>
<td>Trauma, Suffocation</td>
<td>Same as above</td>
<td>+</td>
<td>Same as above</td>
<td>Same as above</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Volcanic Eruption</strong></td>
<td>Trauma, Suffocation, Burns, Acute Respiratory Distress</td>
<td>Need assessment Casualty management Assistance in temporary shelters</td>
<td>++</td>
<td>Mass Casualty Management Health Care in temporary shelters</td>
<td>Intensive Respiratory Care Unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bush Fire</strong></td>
<td>Burns Trauma, suffocation</td>
<td>Same as above</td>
<td>-</td>
<td>Same as above</td>
<td>Burns Care facilities</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### 1.8.15. Essentials for Contingency and Preparedness Planning for the Health

<table>
<thead>
<tr>
<th>Type of Emergency</th>
<th>Primary Hazard</th>
<th>Primary Causes of Death &amp; Illness</th>
<th>Main Responsibility of the Health Sector</th>
<th>Risk to Health Network</th>
<th>Capacities Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergencies from Technological Causes</td>
<td>Transport Incident (road, railways, air, sea, etc)</td>
<td>Trauma, Drowning, Burns, Suffocation</td>
<td>Search &amp; Rescue/Triage Casualty Management</td>
<td>+</td>
<td>Mass Casualty Management - Intensive care facilities</td>
</tr>
<tr>
<td></td>
<td>Fire in Human Settlement</td>
<td>Burns, Trauma, Suffocation</td>
<td>Search &amp; Rescue/Triage Casualty Management</td>
<td>+++</td>
<td>Mass Casualty Management - Intensive Care Unit - Burns Care facilities - Hospital vulnerability assessment and reduction</td>
</tr>
<tr>
<td>Industrial Explosive, fire, Spill, Radiation</td>
<td>Blast, Other, Burns, Acute respiratory Distress, Suffocation, Agent-specific</td>
<td>Search &amp; Rescue/Triage Casualty Management</td>
<td>+</td>
<td>Mass casualty Management - Specific medical/nursing care - Intensive Care facilities - Special Decontamination facilities Access to special Reference Centre</td>
<td></td>
</tr>
<tr>
<td>Collapse of man-made Structure</td>
<td>Trauma, Suffocation Drowning, other, according to type of structure</td>
<td>Search &amp; Rescue/Triage casualty Management Assistance in temporary shelters</td>
<td>+++</td>
<td>Mass casualty Management - Intensive Care facilities - Hospital vulnerability assessment and reduction</td>
<td></td>
</tr>
<tr>
<td>Failure of Lifeline Systems</td>
<td>Any cause, by lack of critical support care Trauma by crowd panic</td>
<td>Prompt back-up Casualty Management</td>
<td>+++</td>
<td>Mass Casualty Management - Hospital vulnerability assessment and reduction - Back-up systems</td>
<td></td>
</tr>
<tr>
<td>Mass Food Poisoning by Human Causes</td>
<td>Agent - specific</td>
<td>Alert and Assessment Identification of Agent Case Management</td>
<td>+</td>
<td>Epidemiology Specific Medical/Nursing care - Environmental health - Special Decontamination facilities Access to special reference Centres</td>
<td></td>
</tr>
<tr>
<td>Complex Emergencies</td>
<td>Armed Conflict</td>
<td>Trauma, Malnutrition, ARI, Diarrhoea, Measles, Meningitis vector -born diseases</td>
<td>Need Assessment 7 Advocacy Disease control Nut: Surveillance &amp; Select feeding Injury Management</td>
<td>+++</td>
<td>Epidemiology &amp; Diseases Control Nutrition War surgery - Special Agreements &amp; Procedures war surgery facilities/capacities safe Transfusion facilities Co-ordination of International Aid</td>
</tr>
<tr>
<td></td>
<td>Mass Labour Unrest</td>
<td>Trauma, Any cause by lack of critical support care</td>
<td>Mass casualty Management</td>
<td>+</td>
<td>Mass Casualty Management - Special Agreements &amp; procedures</td>
</tr>
<tr>
<td></td>
<td>Terrorist Attack</td>
<td>Blast, Trauma, Fire, Suffocation, Acute Resp. Distress, Other specific (e.g. Toxic gas)</td>
<td>Mass Casualty Management</td>
<td>-</td>
<td>Mass Casualty Management - Intensive Care facilities</td>
</tr>
<tr>
<td></td>
<td>Refugee/Displaced Influx</td>
<td>Diarrhoea, ARI, Malnutrition, Measles, Meningitis, Vector -born diseases</td>
<td>Diseases control Nut: Surveillance &amp; Select feeding Assistance in camps/transit points</td>
<td>-</td>
<td>Epidemiology &amp; Diseases Control nutrition Health Care in temporary shelters - Recruitment of volunteers - Outreach and supervision - Co-ordination of International Aid</td>
</tr>
<tr>
<td>Major Public Functions</td>
<td>State Visit</td>
<td>Any illness of state guests illness among spectators crowd incidents (stampede, etc)</td>
<td>Back - up for possible special, high -profile medical emergency readiness for crowd incidents</td>
<td>-</td>
<td>Medical/Nursing Care - Intensive Care facilities</td>
</tr>
<tr>
<td></td>
<td>Pilgrimage</td>
<td>Epidemic diseases illness among spectators Crowd incidents (stamped, etc)</td>
<td>Disease Control Readiness for crowd incidents back-up for increased demand</td>
<td>-</td>
<td>Epidemiology &amp; Disease control, Environmental Health Mass casualty Management - Intensive Care facilities - Temporary outreach facilities</td>
</tr>
<tr>
<td></td>
<td>Mass Entertainment</td>
<td>Illness among spectators Crowd incidents (stamped)</td>
<td>Back-up for increased demand readiness for crowd incidents</td>
<td>-</td>
<td>Mass Casualty Management - Intensive Care facilities</td>
</tr>
</tbody>
</table>