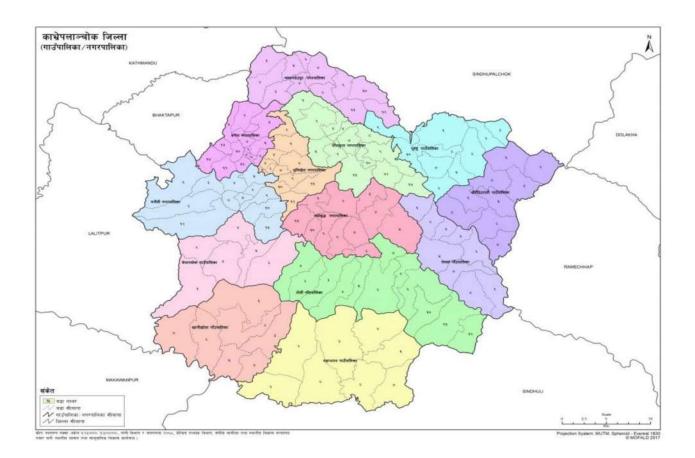
Disaster Preparedness and Response Plan

METHINKOT HOSPITAL

Introduction

Methinkot Hospital is located in Namobuddha Municipality-04, Kavrepalanchok district which comes under the Bagmati Province. It is around 50 km far from the capital Kathmandu. The total area of the district is 1,396 sq. km. The district occupies 0.94% of total area of the country. It has 13 Municipalities out of which are urban municipalities and 7 are rural municipalities. Dhulikhel is the head quarter of this district. The district covers 6.87% land mass of Bagmati Province and is bordered by Sindhuli, Bhaktapur, Ramechhap, Lalitpur, Kathmandu and

Sindhupalchok. Politically the district is divided into 2 electoral constituencies. Methinkot Hospital is situated in Namobuddha Municipality, ward no.4. It lies near the headquarter of Kavrepalanchok district, Dhulikhel. Its area is around 8 Ropanis. This hospital was first established as a Primary Health Care Centre (PHCC) in 2054 B.S. Later, in 2066 B.S. it was named as a 15 bedded District hospital. In 2077 BS the hospital was up graded to 50 bedded Provincial District Hospital.



Disaster Management Committee (Executive Committee)

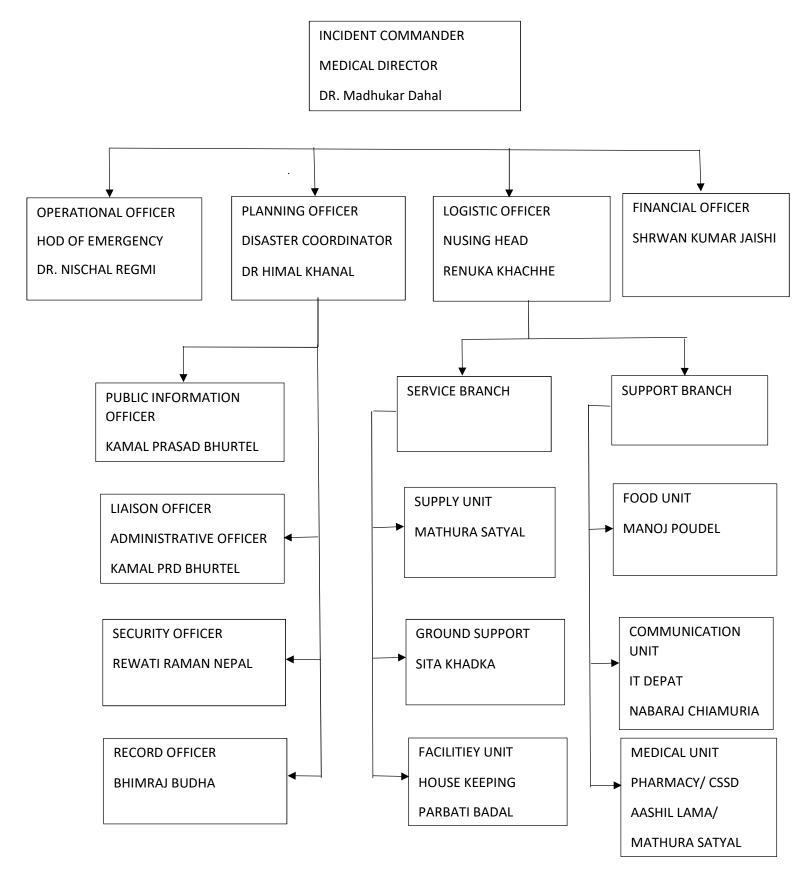
EXECUTIVE DIRECTOR

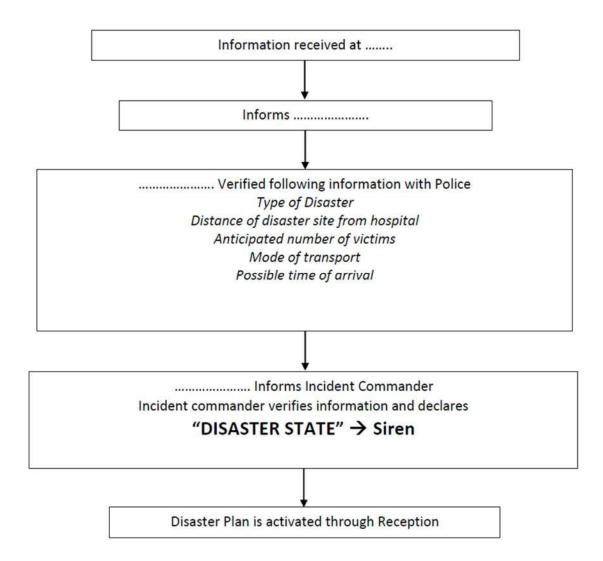
Act. Me.Su.: DR. Madhukar Dahal

HEAD OF DEPARTMENTS

١.	ANESTHESIA	: DR.
П.	DERMATOLOGY	: DR.
111.	DENTAL	: DR. Pratistha Ghimire
IV.	EMERGENCY	: DR. Nischal Ghimire
V.	ENT	: DR.
VI.	GYNAE/ OBS	: DR. Dr. Madhukar Dahal
VII.	MEDICINE	: DR. Sanjeev Joshi
VIII.	ORTHOPEDICS	: DR. Subin Banjankar
IX.	PATHOLOGY	: DR.
Х.	PEDIADTRICS	: DR.
XI.	PSYCHIATRICS	: DR. Dr. Pratistha Ghimire
XII.	RADIOLOGY	: DR.
XIII.	SURGERY	: DR. Mukesh Jaiswar







BRIEF DISASTER INSTRUCTIONS

- DISASTER OVERSEER e.g.: hospital director declare disaster once conformed→ Siren
- All staff are alerted and moved to their responsible areas
- SECURITYS are mobilized
- Waiting area of OPD are emptied, wait outside or sent home as decision of Disaster Overseer
- **OPERATION THEATER, XRAY AND LAB**, stop normal functioning, clear waiting areas until otherwise directed.
- Radiology- only priority work done- X-ray C spine, chest, pelvis
- LAB- Hb blood grouping and save sample for later, communicate with blood bank
- WARDS noncritical patients are discharged starting with fittest
- Administrative staff in each area one staff RED, YELLOW, GREEN.
- Communicate with security, HA, Helpers, store, transport, blood bank, pharmacy, police, press.
- CLINICAL DIREECTORS EG HOD/ senior faculty family medicine and emergency manages decision making about casualties from the TRIAGE Desk, just outside the front door of the emergency.
- TRIAGE- takes place in front of the main gate of Emergency
 - RED- FOR CRITICALLY INJURED- MAIN AREA OF EMERGENCY
 - YELLOW- FOR SEMICRITICAL AREA- GENERAL AREA OF MAIN AREA
 - GREEN- FOR WALKING WOUNDED AND CASES THAT CAN
 WAIT WITH MINOR FIRST AID- WAITING AREA OF OPDS
 - BLACK- DESEASED MOVE TO MOUTURY OR IN INNER
 WAITING SPACE OF EMERGENCY

- Existing patient in emergency- move to observation and to respected ward or send home.
- Medical and nursing consultants move to respected areas to manage under direction of disaster overseer
- Units who are on call 9 normally taking patients from emergency that day) report to emergency once siren is on
 - SURGERY, ORTHOPAEDICS, ANESTHESIA, ENT, DENTAL will be deployed between RED and Yellow area, in ration 2:1 initially
 - Team of 1- 2 HO/ consultant+ 1-2 nurse/ HA for each RED case
 - Team of 1 HO/ consultant+ 1 nurse/ HA for each YELLOW case
 - Team of 1 HO/ consultant+ 1 nurse/ HA for each 5 GREEN
 Case

HA/ Sisters from dressing room to be mobilizedProcedure room under faculty/ senior HA.OPD staffs to assist in green area cases/ in ORTHO procedures.

- Another group of surgeon or orthopedics will move the patient to emergency OT or admit to ward and discharge if possible.
- MED, PAED, PSYCH, EYE, GYE/OBS WILL ASSIST IN GREEN AREA
- Units not on call for the day
 - To report to own ward- priority list for discharge and patient movement
 - To assist the on call unit ward including discharge, transfer, and receiving the casualties
 - $\circ~$ Surgical specialist to be ready for OT duties
 - Other deployed by the department seniors to GREEN AREA

Check list of equipment needed at command center

The following equipment will be required for both in hospital (administrative director room or nearby meeting room)

• Land line

- Mobile phone
- Radio and television
- Maps
- Charts and white boards
- Emergency power
- Water
- Flip charts and pens
- Plans disaster management plan
- Security
- Phone numbers of hospitals
- Messengers

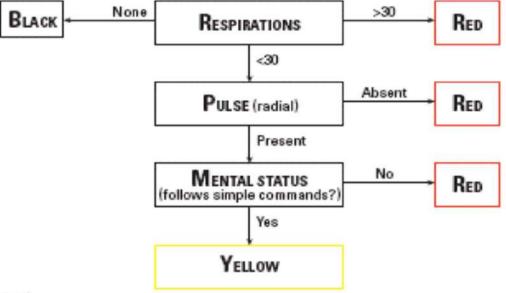
Triage category

Category	Classification	
Red	Immediate care	
	(life in danger)	
Yellow	ow Delayed care	
	(serious, but life not in danger)	
Green	Minimal care ("walking wounded)	
	(cuts and bruises	
Black	Dead on arrival	

START Triage

Walking wounded are directed to go to treatment area. (All are triaged as Green.)

Those unable to walk are assessed by the "RPM" method:



Important:

Once any RED criteria are met, tag patient and MOVE ON!

Triage is sorting, not treatment. Only 2 interventions may be made during triage:

1) Open/clear airway.

2) Apply direct pressure to major bleeding sites.

Patients will be reassessed at treatment area(s).

Method of triaging

Start (Simple Triage and Rapid Treatment)

This allows the triaging personnel to triage the victims in sixty seconds or less. This is done by assessing

respiration, perfusion and mental status.

Steps:

1. Asses the patient for ventilatory rate and adequacy of respiration. If the victim is not breathing,

check for foreign bodies causing airway obstruction. Do a chin lift or jaw thrust. If this does not

initiate ventilatory effect, tag black. If respiratory rate is more than 30 per minute, tag red. If

respiratory rate is less than 30, do not tag yet, but asses for perfusion.

2. Assess capillary refill for perfusion by pressing nail bed or lips and release. Colour should return in

less than two seconds. If capillary refill is more than two seconds, tag red. If capillary refill is normal, do not tag yet but assess for mental status. If there is obvious external bleeding, control hemorrhage by pressure.

If capillary refill is difficult to access because of dark room or nail polish, then:

Feel the Radial pulse, if absent – tag Red or if present, do not tag yet.

3. Use simple command to assess the mental status like 'open and close your eyes' or 'squeeze my

fingers'. If patient is not responding to these commands, tag red. If patient responds well, tag yellow.

4. Patients who have only minor injuries (walking wounded) should be tagged green.

However

TRIAGE IN EPIDEMICS

As mentioned previously, exact screening protocols may vary depending on the nature of the epidemic and its principle symptoms and etiology. However, many epidemic illness have vague or overlapping symptoms.

During the initial phases of an epidemic when the specific etiology is unknown, it may be difficult to

differentiate an illness based on symptoms alone. However, the most likely epidemics will involve primarily either respiratory or gastrointestinal symptoms and transmission.

Triage during primary respiratory illness

• Respiratory illnesses that may constitute a public health emergency of national concern in Nepal

include but are not limited to the following: Severe acute respiratory syndrome coronavirus (SARS),

influenza, pneumonic plague, Middle East Respiratory Syndrome coronavirus (MERS), or other novel

acute respiratory infections.

• During initial phase of epidemic, the infectious agent may be unknown. However, often there will

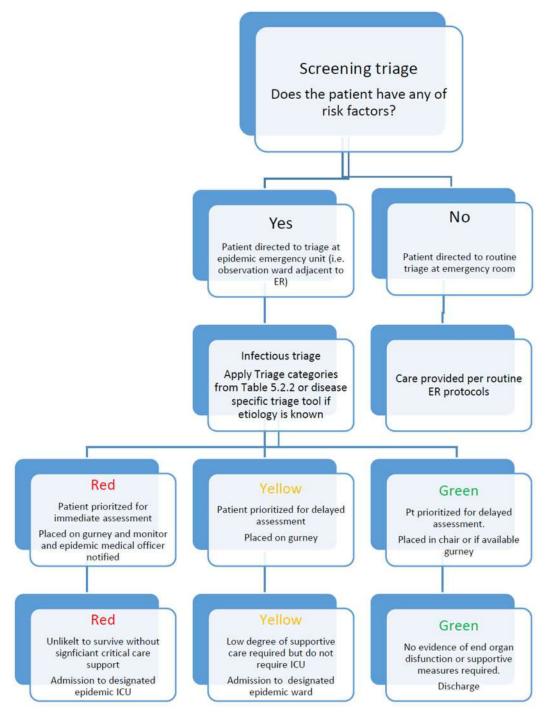
have been outbreaks of epidemic in other locations in Nepal or other countries, which can guide the evaluation.

Screening for respiratory epidemic risk factors at initial presentation should include the following:

- o Fever and
- Cough or shortness of breath and
- Travel to a region with a known ongoing respiratory epidemic or

o Contact with known diagnosis of epidemic respiratory infection

• Isolation and infectious precautions should be followed to the extent possible at all times.



Triage during primary gastrointestinal illness

Gastrointestinal illnesses that may constitute a public health emergency of national concern in Nepal include but are not limited to the following: vibrio cholera, salmonella typhi, entameba histolitica, norovirus, shigella species, escherichia coli, or other novel GI infectious agent.
During initial phase of epidemic, the infectious agent may be unknown. However, often their will have been outbreaks of epidemic in other locations in Nepal or other countries, which can guide the evaluation.

• Screening for gastrointestinal epidemic risk factors at initial triage should include the following:

- Diarrhea >3 loose stools per day (bloody or "rice-water") and
- Fever, vomiting, or abdominal pain
- Travel to a region with a known ongoing gastrointestinal epidemic or

Close contact with known diagnosis of epidemic gastrointestinal infection

• Isolation and infectious precautions should be followed to the extent possible at all times.

Triage during hemorrhagic fever

• While the likelihood of an infectious hemorrhagic fever occurring as an epidemic in Nepal is very low compared to other infectious epidemics, diseases such as Ebola Hemorrhagic Virus (EHV) require special planning and precautions compared to other outbreaks. • When there are public health warnings indicating an increased risk of encountering EHV in the hospital, safeguards should be implemented prior to disaster activation. Once a patient with EHV has presented to the ER, the epidemic disaster plan should be activated. • First, immediately upon a person's entrance to the ED, or in advance of entry if possible (such as at screening triage), a relevant exposure history should be taken including exposure criteria of whether the patient has traveled internationally or had contact with an individual with EHV within the previous 21 days. Because the signs and symptoms of EHV may be nonspecific and are present in other infectious and noninfectious conditions that are more frequently encountered in the United States, relevant exposure history should be first elicited to determine whether EHV should be considered further. If the patient is unable to provide history due to clinical condition or other communication barrier, history should be elicited from the next most reliable source (family, friend, etc.).

• Patients who meet the exposure criteria should be further questioned regarding the presence of

signs or symptoms compatible with EHV. These include:

Fever (subjective or ≥100.4°F or 38.0°C) or

• Headache, fatigue, weakness, muscle pain, vomiting, diarrhea, abdominal pain, or

• Hemorrhage (bleeding gums, blood in urine, nose bleeds, coffee ground emesis or melena).

• All patients should be routinely managed using precautions to prevent any contact with blood or

body fluids. If an exposure history is unavailable, clinical judgment should be used to determine

whether to empirically implement the following protocol. If a relevant exposure history is reported

and signs or symptoms consistent with EVD are present, the following measures should be

implemented IMMEDIATELY:

• If possible, isolate the patient in a private room or separate enclosed area with private

bathroom or covered, bedside commode and adhere to procedures and precautions designed

to prevent transmission by direct or indirect contact (dedicated equipment, hand hygiene, and

restricted patient movement). Because there are very limited areas for isolated patient care rooms in Methinkot Provincial Hospital's emergency department, if a patient has already presented in the ER

they should be placed in the obstetrics room or the call room in order to isolate them from

other patients until a designated EHV treatment area has been established. As soon as

possible, these patients should be moved out of the ER to a separate treatment area.

 If the patient is arriving by EMS transport, the ER should be prepared to receive the patient in a designated area (away from other patients) and have a process in place for safely

transporting the patient on the stretcher to the isolation area with minimal contact with nonessential

healthcare workers or the public.

• As soon as it can be cleared of active patients, the private clinic area across from the outpatient

pharmacy windows should be designated for EHV victims. EHV patients should be moved to this

area and placed in isolation until transfer to a designated Ebola treatment center can be arranged.

• Members of a designated EHV treatment team should receive training in advance in caring for

victims of EHV. Once the epidemic disaster plan has been implemented for an outbreak of

hemorrhagic fever, this EHV care team should be activated to provide care for these patients. Staff

without such training should not provide care for EHV victims or enter EHV care areas.

• Notify the Hospital Infection Control Program and other appropriate staff and report to the relevant

local health department immediately of patients with EVD exposure history regardless of symptoms.

The above steps are only a temporary measure until coordination with public health authorities can

establish a designated Ebola treatment center and the victims can be transferred safely to these

centers for definitive care.

Treatment area

Category	Treatment area	Area in charge	Staffing From (Doctors and Nurse)
Triage			
Red			
Yellow			
Green			
Black			

- * It is important to note that during disasters, <u>all the</u> <u>routine investigations are stopped except:</u>
 - * X- ray trauma series: Lateral cervical, Chest and Pelvis
 - * Blood Grouping and Cross matching
 - * Random Blood Sugar
 - * USG
 - * CT scan (if required)
 - * IT IS OF UTMOST IMPORTANCE TO RETRIAGE THE PATIENTS FREQUENTLY

Conditions for referral of patients

Some Victims are also referred to the higher centers for t/t of more specialized injuries

- Cardiovascular injuries
- Head and neurological (spine) injuries

Once definite care is given and patients is stable, they are shifted to designated department for specific treatment.

