

Public Health Emergency Management in Nepal

Theme: *Health, Climate, and Population Dynamics: Building Resilient Health Systems for a Sustainable and Equitable Future*



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Spokesperson, MoHP
Chief, HEOC

Health Emergency Operation Center



Health Emergency Operation Centre (HEOC) established in 2014

Major Disaster Responded



Nepal Earthquake



Kavre Food Poisoning



US Bangla Air Crash



COVID-19



Pokhara Air Crash



Jajarkot Earthquake

2015

2017

2018

2019

2020

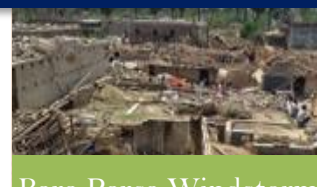
2022

2023

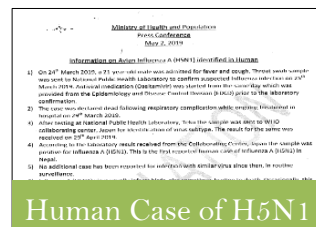
2024



Flood and Landslide



Bara Parsa Windstorm



Human Case of H5N1

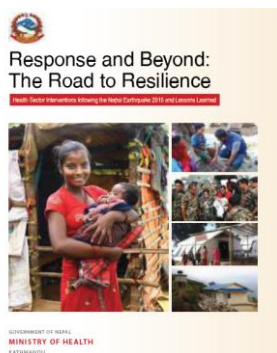


Cholera Outbreak

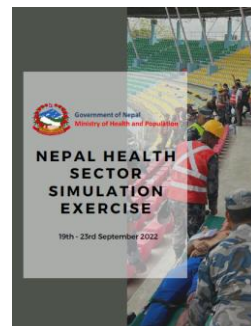


Flood and Landslide

Recommendations



- The HEOC might be the **central command and control unit** with experts from each division within the MoH and DoHS should take up their responsibilities under the direction of the HEOC
- While data must be shared with all concerned authorities, reporting should be limited to the HEOC. The HEOC, following its activation, should be the only **focal body at the center** for the dissemination of data.
- Every **health facility** should have its **own contingency plan** in place. Health facilities should conduct **drills and simulation exercises** related to mass casualty management and trauma management at intervals of around four years.
- An **Emergency Medical Team** Coordination Cell (EMTCC) should be activated for the purpose of managing I-EMTs, and this should come to comprise a major component of the HEOC.
- Support the (health) facilities to **build separate rooms or spaces** that can withstand earthquakes and other disasters, so that the **stocks may be safely stored** for use in emergencies.
- The HEOC should be **more proactive** even in normal periods.



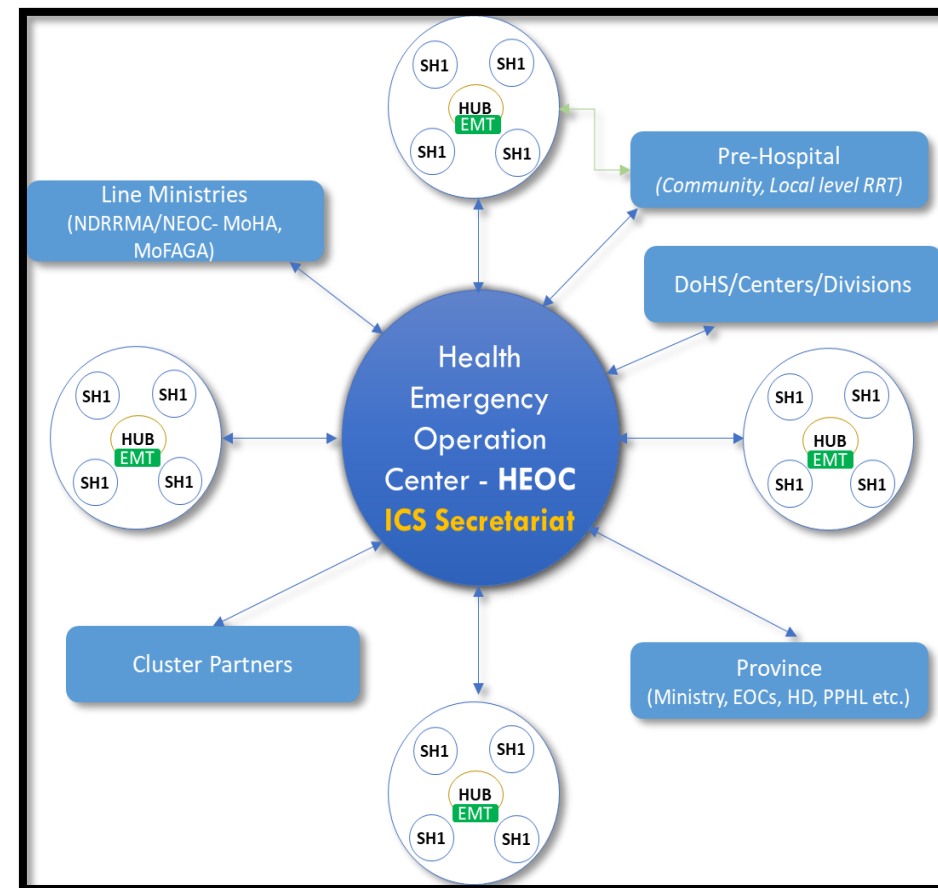
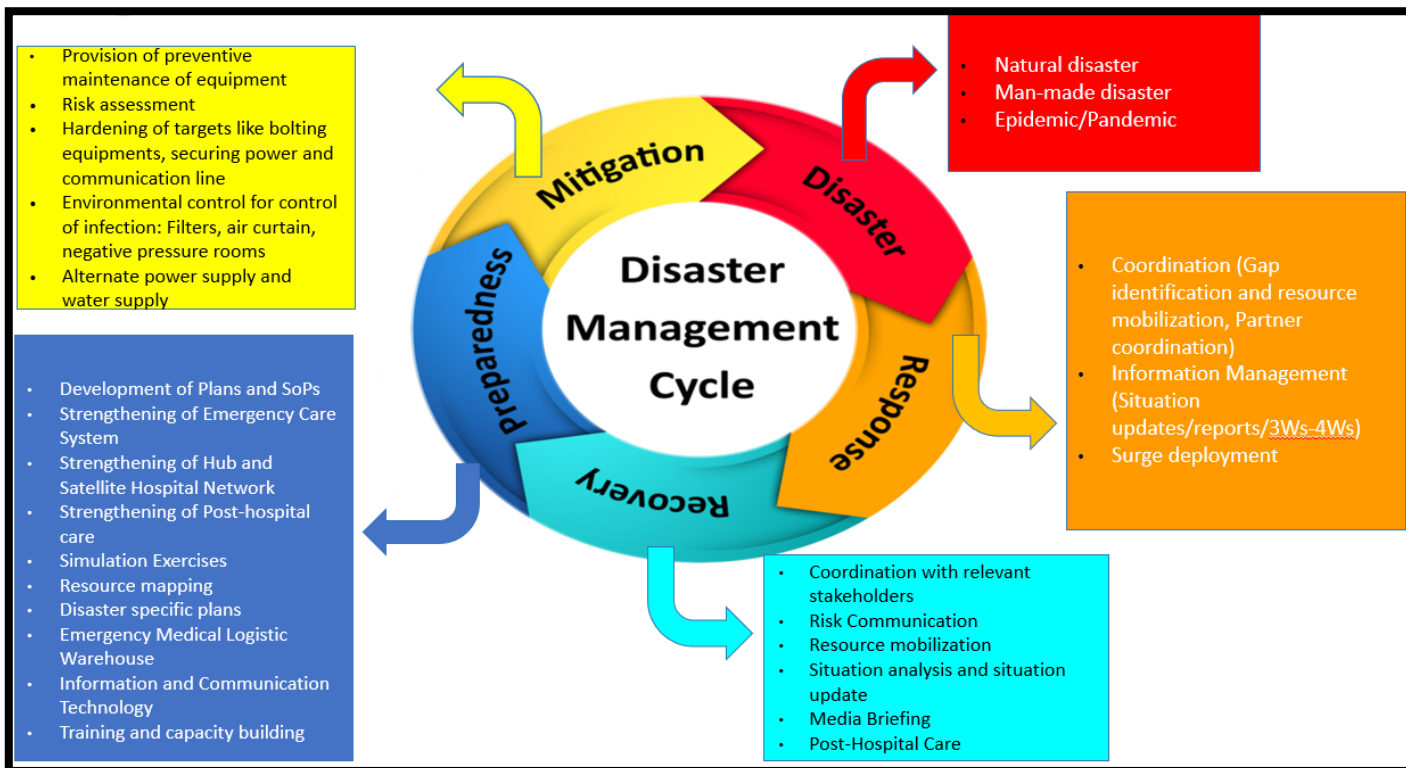
- Expanded virtual EOC capacity
- Standard Operating Procedures (SOPs)
- Adding additional cells/functions within the HEOC for surge deployment
- Confirming a consistent information pathway
- Mass Casualty Planning
- Mass Casualty Management training
- A suite of structured forms



R1 Health Emergency Management

- Develop a multisectoral, multi-hazard health emergency management plan that includes an emergency risk and readiness assessment and preparedness and response plans at both national and intermediate levels.
- Develop a Health Sector Emergency Response Action Plan.
- Develop a range of HEOC-specific plans including but not limited to an emergency operations plan; a civil-military-specific plan; a strategic humanitarian response plan; and a business continuity plan.
- Develop SOPs for pre-deployment, deployment and post-deployment of RRTs and EMTs.
- Development protocols for rapid procurement and replenishment of emergency logistics.
- Build staff capacity for Public Health Emergency Management (PHEM) through training and national and international networking of trained personnel.

Central Command and Control



Network of HEOCs



HEOC Network of Nepal



HEOC Specific Documents

स्वास्थ्य आपत्कालीन कार्यसञ्चालन केन्द्र
HEALTH EMERGENCY OPERATION CENTER (HEOC)

आधारभूत कार्यविधि
(Standard Operating Procedures - SOPs)



नेपाल सरकार
स्वास्थ्य तथा जनसङ्ख्या मन्त्रालय
रामशाहपथ, काठमाडौं

१



जनस्वास्थ्य आपत्काल व्यवस्थापन निर्देशिका, २०८१

आकस्मिक स्वास्थ्य सम्बन्धि संविधान प्रदत्त मौलिक हकलाई सम्बोधन गर्नका लागि विविध जनस्वास्थ्य आपत्काल तथा विपद् को पूर्वतयारी, प्रतिकार्य र पुनर्स्थापना तथा समग्र व्यवस्थापन गर्न आवश्यक भएकाले जनस्वास्थ्य सेवा ऐन २०७५ को दफा ६४ ले दिएको अधिकार प्रयोग गरी स्वास्थ्य तथा जनसंख्या मन्त्रालयले यो निर्देशिका जारी गरेको छ ।

परिच्छेद १
प्रारम्भिक

१. संक्षिप्त नाम र प्रारम्भ :

- क) यो निर्देशिकाको नाम "जनस्वास्थ्य आपत्काल व्यवस्थापन निर्देशिका, २०८१" रहेको छ ।
ख) यो निर्देशिका तुरुन्त प्रारम्भ हुनेछ ।

२. परिभाषा : विषय वा प्रसङ्गले अर्को अर्थ नलागेमा यस निर्देशिकामा -

- क) "अस्पताल" भन्नाले बिरामी भर्ना गरी चिकित्सकद्वारा स्वास्थ्य सेवा प्रदान गर्ने स्वास्थ्य संस्था सम्झनु पर्छ ।
ख) "अस्पताल-पूर्व सेवा" भन्नाले बिरामी वा घाइतेलाई घटनास्थल देखि अस्पताल पुर्याउँदासम्म गरीने आकस्मिक उपचार र चिकित्सकीय सेवा सम्झनु पर्छ ।
ग) "अस्पताल-पश्चात सेवा" भन्नाले बिरामीलाई अस्पतालबाट डिस्चार्ज गरिसकेपछि समय-समयमा पुनः स्वास्थ्य परिक्षण तथा सेवाका लागि प्रदान गरिने स्वास्थ्य सेवा सम्झनु पर्छ ।
घ) "अस्पताल सञ्चालन" भन्नाले जनस्वास्थ्य आपत्काल तथा विपद्को अवस्थामा प्रतिकार्य तथा स्वास्थ्य सेवा प्रदान गर्नका लागि तोकिएका मुख्य सम्पर्क अस्पताल (हब अस्पताल) तथा स्याटेलाइट अस्पतालको सञ्चालनलाई सम्झनु पर्छ ।
ङ) "इकाई" भन्नाले मन्त्रालय अन्तर्गत रहेको स्वास्थ्य आपत्कालीन तथा विपद् व्यवस्थापन इकाई

प्रस्तावना

जनस्वास्थ्य आपत्काल तथा विपद्को बेला संघीय घटना आदेश प्रणाली सक्रिय हुँदा स्वास्थ्य तथा जनसंख्या मन्त्रालयको स्वास्थ्य आपत्कालीन तथा विपद् व्यवस्थापन इकाईको स्वरूप स्वास्थ्य आपत्कालीन कार्यसंचालन केन्द्र हुने भएकाले सोको संचालनका लागि कार्यविधि आवश्यक भएकाले यो कार्यविधि तयार पारिएको छ ।

परिच्छेद १
प्रारम्भिक

१.१ संक्षिप्त नाम र प्रारम्भ: क) यस कार्यविधिको नाम "स्वास्थ्य आपत्कालीन कार्यसंचालन केन्द्र संचालन कार्यविधि, २०८१" रहनेछ ।

ख) यो कार्यविधि स्वीकृत भएको मितिदेखि लागु हुनेछ ।

१.२ परिभाषा: विषय वा प्रसङ्गले अर्को अर्थ नलागेमा यस कार्यविधिमा:

- क) केन्द्र भन्नाले स्वास्थ्य आपत्कालीन कार्यसंचालन केन्द्र सम्झनु पर्दछ ।
ख)

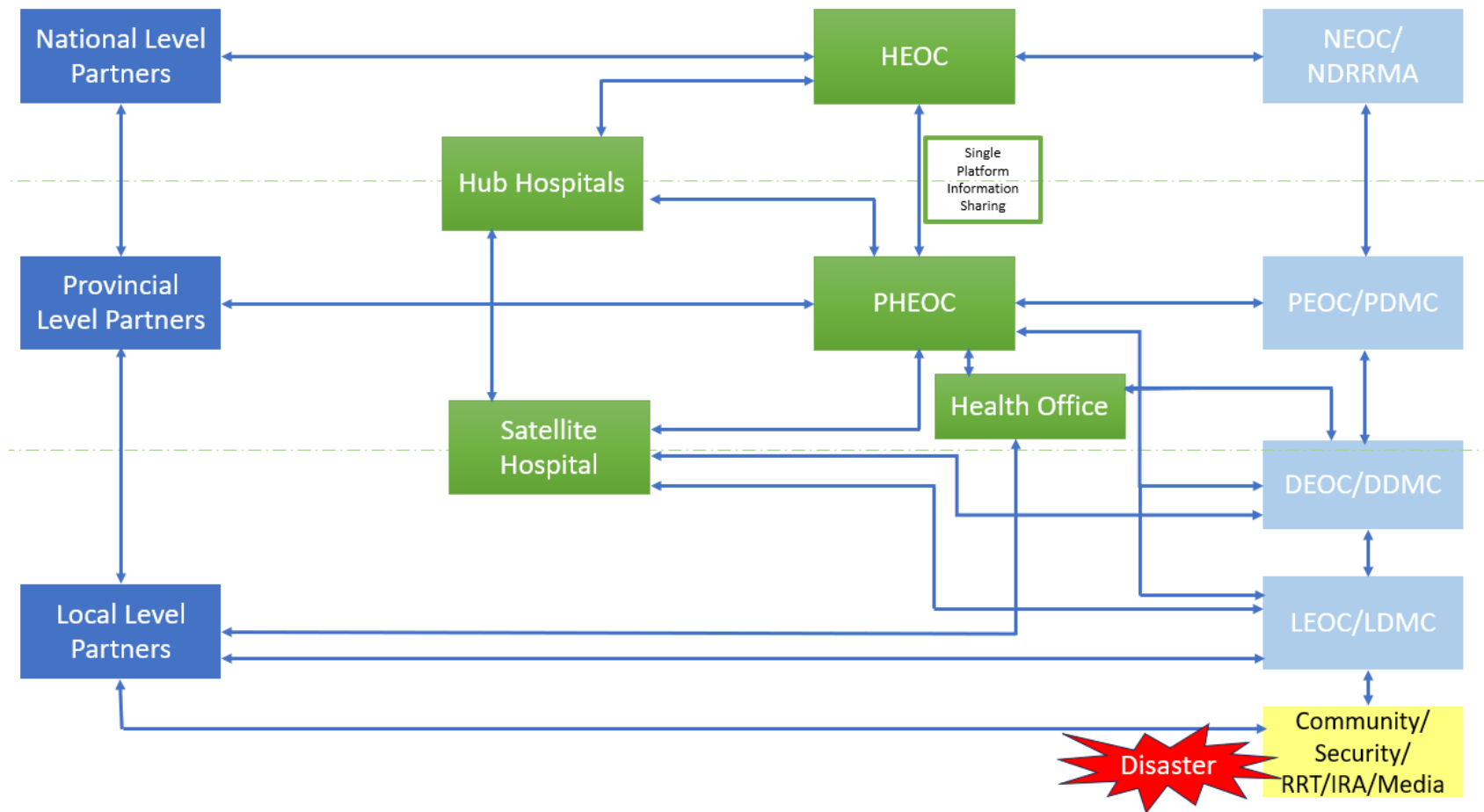
१.३ उद्देश्य : यस कार्यविधिको उद्देश्य देहाय बमोजिम रहेको छ :

- क) स्वास्थ्य आपत्कालीन कार्यसंचालन केन्द्रको संरचनाको बारेमा जानकारी दिने
ख) केन्द्र सम्वद्ध पदाधिकारीको काम, कर्तव्य र अधिकार तोक्ने
ग) केन्द्रको क्रियाशीलताको तह निर्धारण गर्ने र सो अनुसार कार्य गर्न मार्गदर्शन गर्ने
घ) जनस्वास्थ्य आपत्काल तथा विपद्का विभिन्न समयमा केन्द्र संचालन गर्न मार्गदर्शन गर्ने

In process of endorsement

Multisectoral and Cross sectoral Coordination





Network of Dispatch Centers

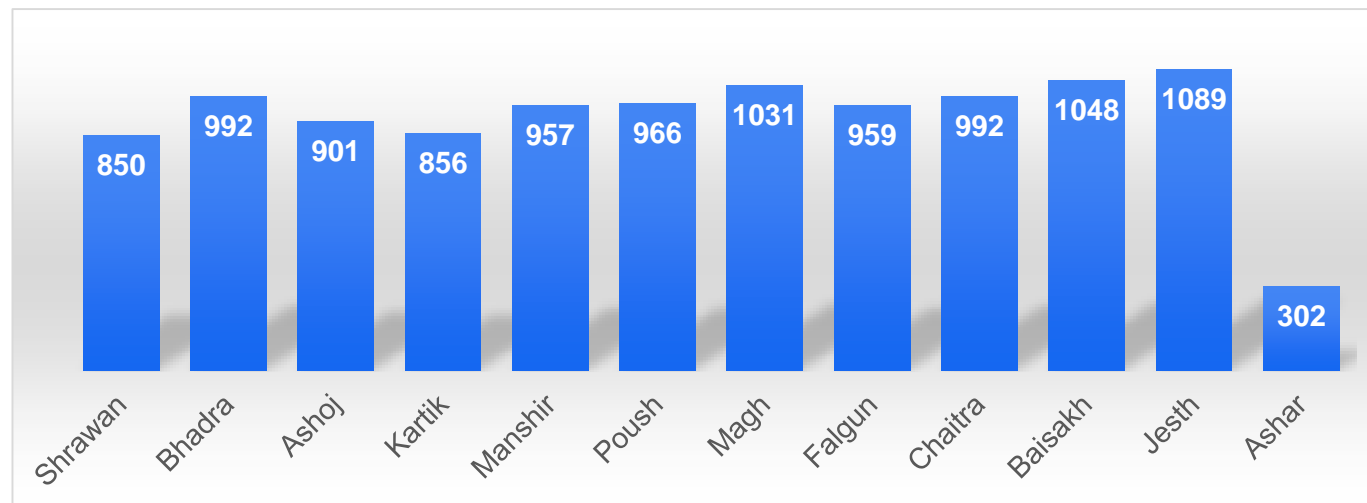


1. National Dispatch Center
2. Koshi Provincial Dispatch Center
3. Madhesh Provincial Dispatch Center
4. Bagmati Provincial Dispatch Center
5. Gandaki Provincial Dispatch Center
6. Lumbini Provincial Dispatch Center
7. Karnali Provincial Dispatch Center
8. Sudurpaschim Provincial Dispatch Center

Prehospital Care System:

Development, Endorsement and Training

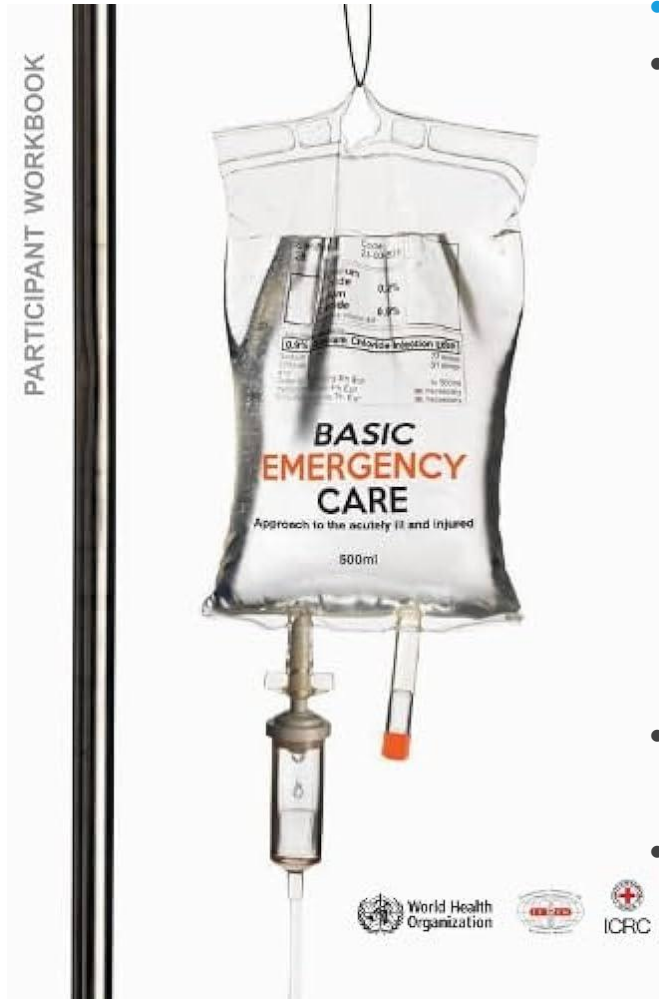
- Endorsement of National Ambulance Guideline 2021
- Upgrading Ambulances to "A" or "B" Category system
- Development of certified frontline providers
- Establishment of National and Provincial Dispatch Centers – Tool free 102; and 674 Ambulances installed GPS (out of 1528 ambulances [0-10 years])



राष्ट्रिय एम्बुलेन्स सेवा
NATIONAL EMERGENCY MEDICAL DISPATCH
PARTICIPANTS HANDBOOK AND REFERENCE MANUAL



Basic Emergency Care

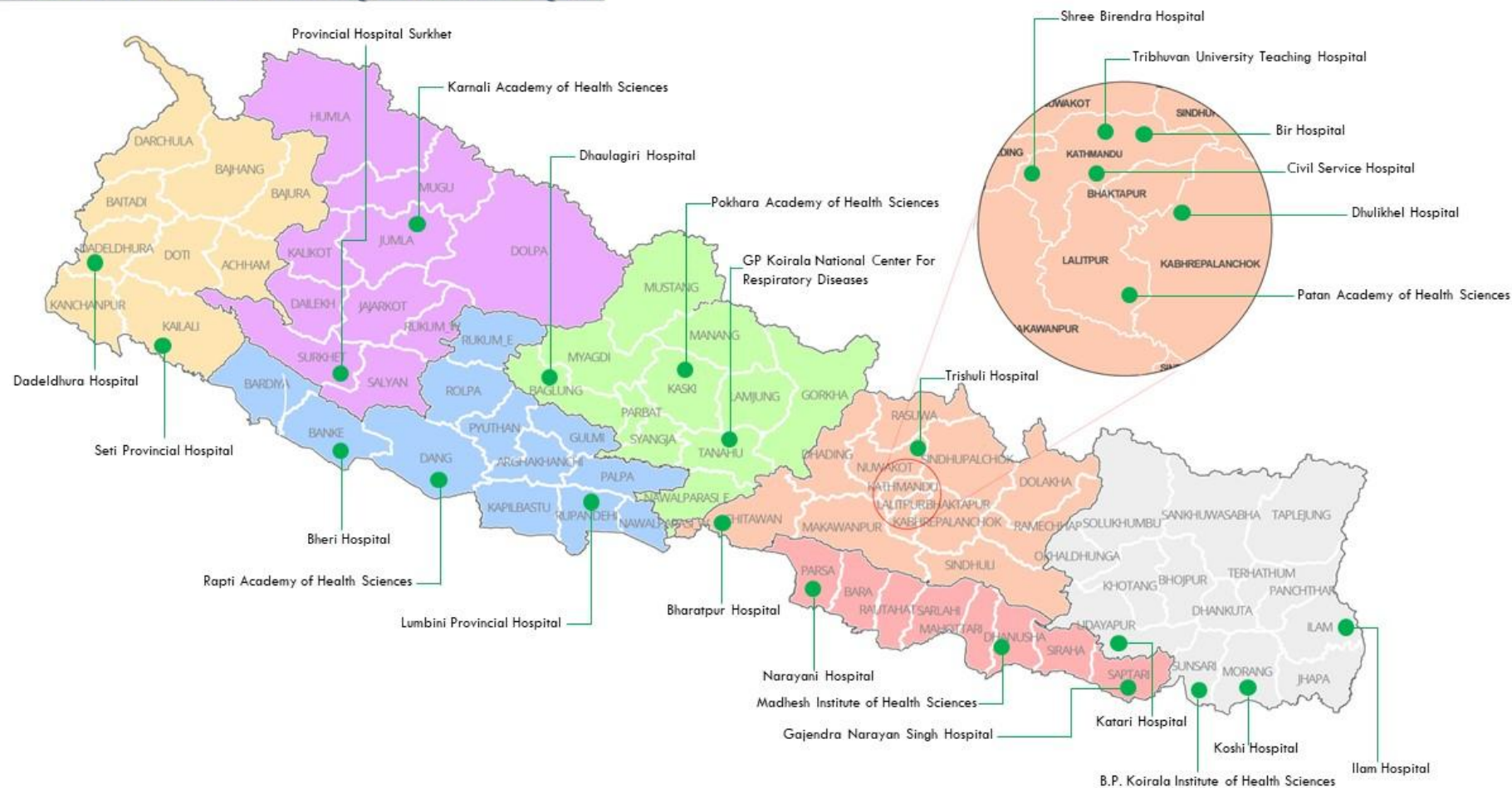


- **Global Emergency and Trauma Care Initiative (GETI)**
- Assessment, Identification, Training and endorsement
 - Nationwide survey was carried out to assess the **National Emergency Care System** | Oct-Nov 2019
 - 39 action prioritized with focus on enhancing the capacity of **Basic Emergency Care (BEC)** to reduce preventable deaths in Nepal | 2021
 - **WHO Emergency Care Toolkit** (*Interagency Integrated Triage Tool, Standardized Clinical Forms-General/Trauma, Emergency Checklist-General/Trauma, Resuscitation Area Designation and BEC course*)
 - Contextualization | 2022
 - Endorsement | Jan 2023
- Trained **901 frontline providers** of Hub-hospitals and prepared **87 national trainers** | as of April 2024
- Adaptation of BEC course
 - by National Health Training Center, MoHP | 2024



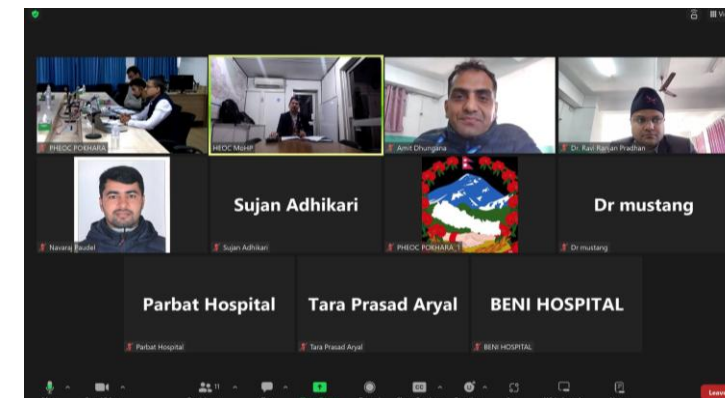
Network of Hospitals

Network of Hub Hospital in Nepal





- हम तथा स्पष्टताइट अस्पताल संजालको राष्ट्रिय सम्मेलन, २०२२ | २९-३० जेठ २०७९; काठमाडौं, नेपाल



Emergency Medical Teams



2015 Earthquake

- Foreign Medical Team Coordination committee was formed at MoHP with technical guidance of WHO HQ.
- 137 FMTs from 36 countries provided service during 2015 earthquakes.



2020 COVID-19

- COVID-19 Emergency Medical Deployment Team Guidelines was endorsed on 28th May 2020.
- Based on the guidelines: 225 EMTs were trained from Hub Hospitals of Nepal.
- EMT Backpacks were distributed to all Hub Hospitals.

2015



Trained EMT
(Based on COVID-19 Emergency Medical Deployment Guidelines 2020)



2018

2018 Kathmandu Valley Drill

Drill was conducted in Kathmandu Valley to test Emergency Medical Deployment Team.



2020



2022 October

- MoHP official participation in "World Health Organization (WHO) Emergency Medical Team (EMT) Global Meeting in Yerevan, Armenia on 5-7 Oct 2022."


2022

2022 December

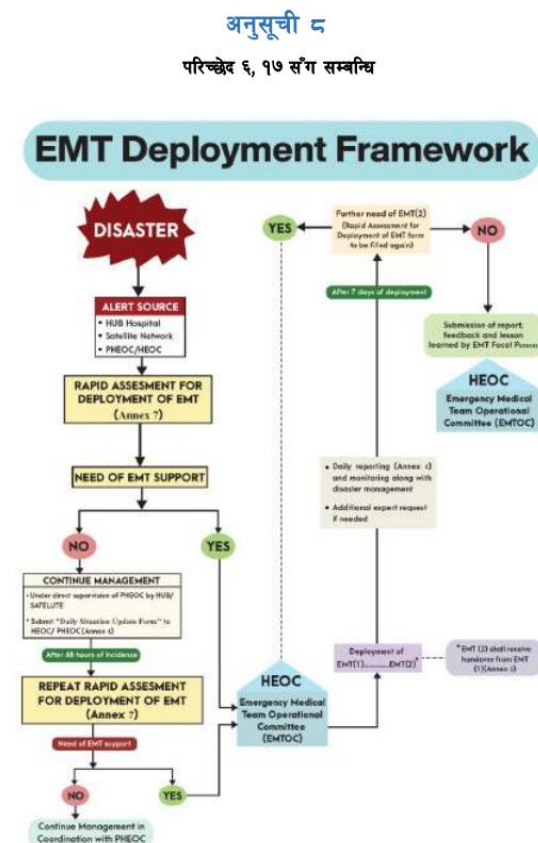
- Development of "RRT and EMT Mobilization Guidelines 2022."



आपत्कालीन चिकित्सकीय समूह परिचालन कार्यविधि २०८१



नेपाल सरकार
स्वास्थ्य तथा जनसङ्ख्या मन्त्रालय
स्वास्थ्य आपत्कालीन तथा विपद् व्यवस्थापन इकाई
रामशाहपथ, काठमाडौं



Strategic Placement of Warehouses

Warehouse	Location
Humanitarian Staging Area (TIA)	Kathmandu
WHO, Country Office for Nepal	Kathmandu
Tribhuvan University Teaching Hospital	Bagmati
Bhaktapur Hospital	Bagmati
Bir Hospital	Bagmati
Shree Birendra Hospital	Bagmati
Patan Academy of Health Sciences	Bagmati
Civil Service Hospital	Bagmati
Dadeldhura Hospital	Sudurpaschim
Seti Hospital	Sudurpaschim
Rapti Hospital	Lumbini
Bheri Hospital	Lumbini



Warehouse for emergency stockpiling of medicines and logistics

Simulation Exercises



*Kathmandu Valley Multi-sectoral
drill 2018*



Nepal Health Sector Simulation Exercise- 2022



*TIA Simulation
Exercise*



Drill at RAHS 2025

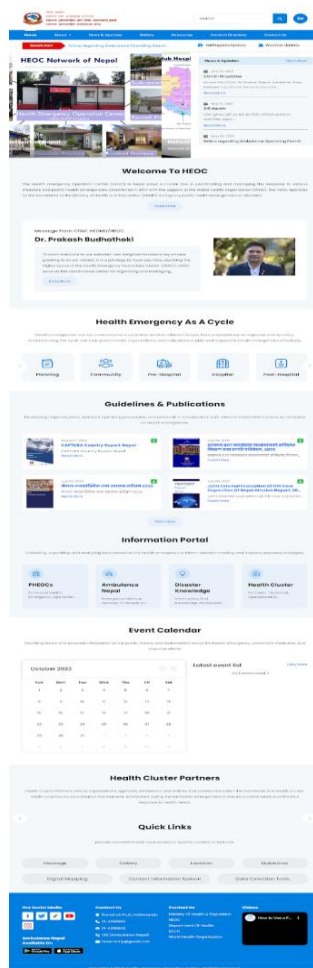


TTX at Surkhet 2025

Information Management

HEOC Web Portal

(<http://heoc.mohp.gov.np>)



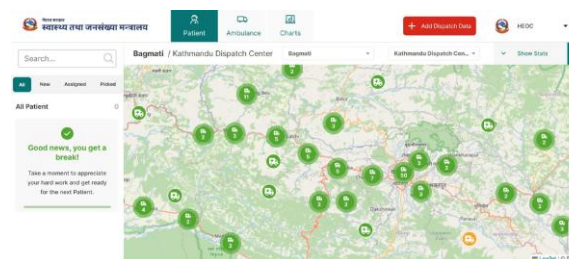
HEOC-PHEOC: INFORMATION HUB

(Google Drive:)

- 01 Contacts
- 02 HEOC_Info
- 03 Guidelines
- 04 Hub_Satellite_Details
- 05 Disaster Record
- 06 Letters
- 07 Data_Collection_Tools
- 08 HEOC_DB
- 09 PHEOCs_Info

Ambulance Nepal

(<https://ambulance.mohp.gov.np/>)



Collaborating with Team

Letters Online

File Tracking

Archive

Emergency Contacts

Social Media

(<https://www.facebook.com/HEOCMoHP>)



HEOC

@HEOCMoHP · Government Organization

HEOC will operate under Secretary and function as a secretariat of Ministry of Health and Population during health emergencies and disasters.

Overall information and coordination HUB during health emergency and disaster

76,729 people like this

83,401 people follow this

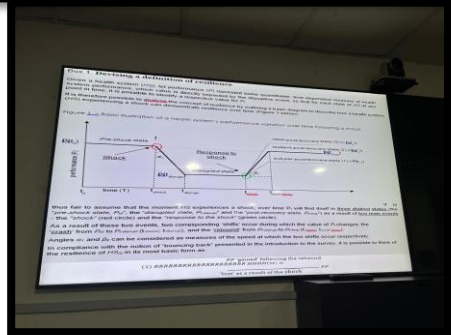
5 people checked in here

<http://heoc.mohp.gov.np/>

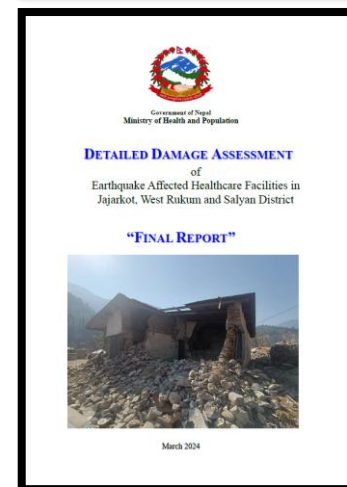
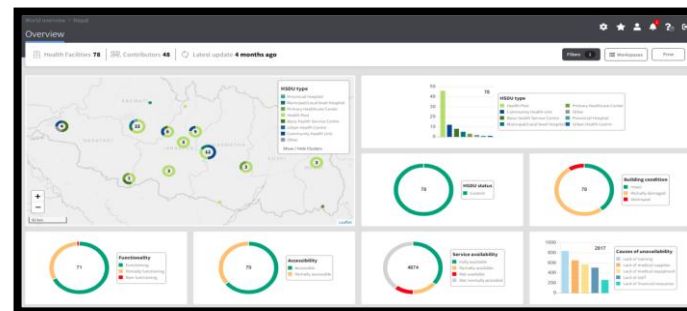
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Typically replies within minutes
[Send Message](#)

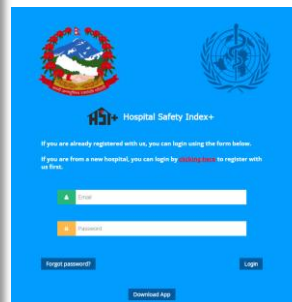
Innovations for Resilience



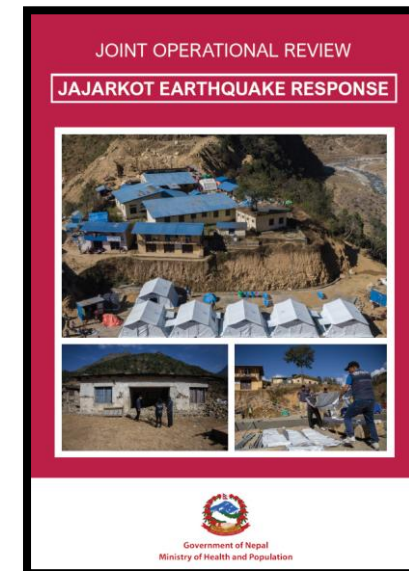
Weekly Knowledge Sharing



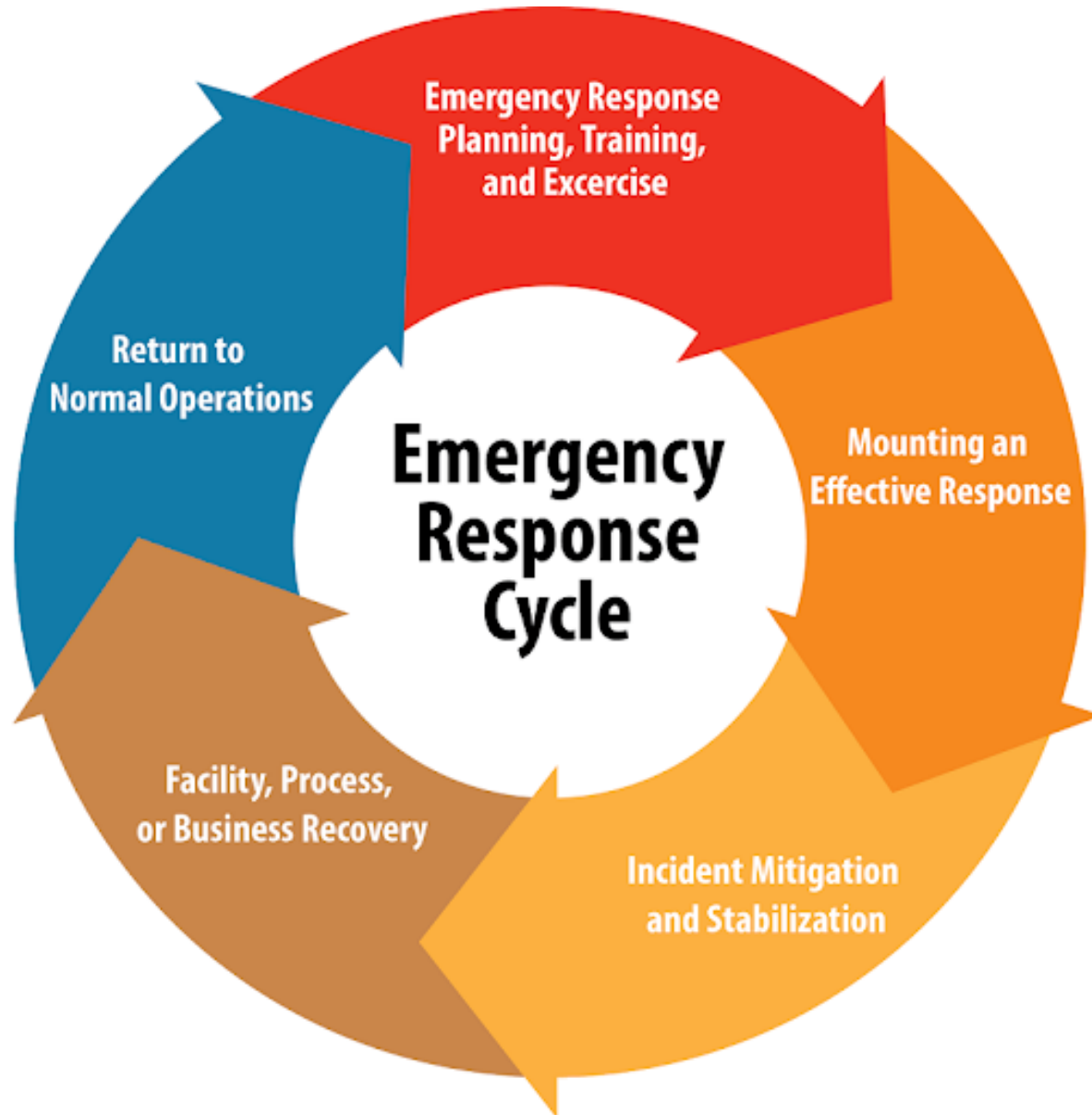
Structural and functional assessment



Alternate Care Site and Medical Camp Kits



After Action Reviews



THANK YOU !