

SINGHEALTH UNHAS DISASTER MANAGEMENT PROGRAMME

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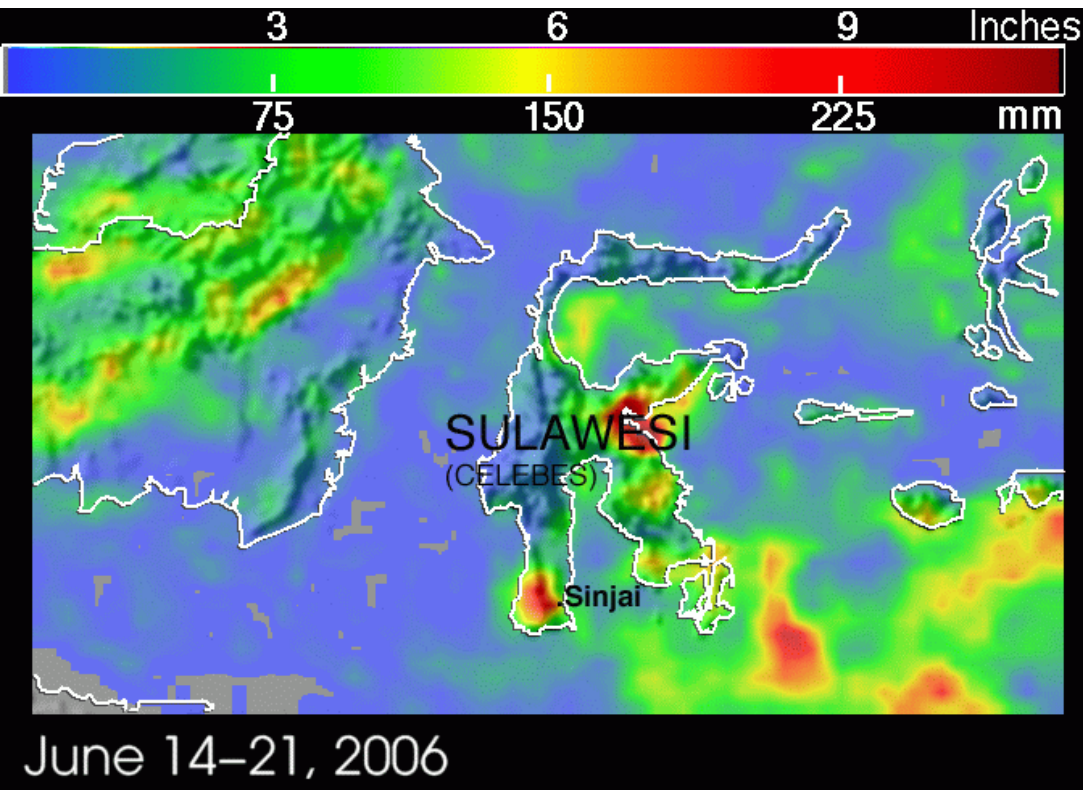
HISTORY AND BACKGROUND

- **Earth quake
(Yogyakarta)**



Disaster in Indonesia

- **Flood**



Disaster in Indonesia

- **Volcano**

Merapi



Bromo

Disaster in Indonesia

- Bali bomb



Disaster in Indonesia

- **Avian Flue**





CONFLICT

Disaster in Indonesia

- **Earth quake
(Yogyakarta)**



disaster management cycle

Prevention and Mitigation

- Risk assessment
- Spatial Planning
- Eco-structural measures
- Public Awareness
- Education..

Preparedness

- Risk forecasting
- Organization
- Planning of resources
- Emergency Planning
- Training
- Public awareness..

Reconstruction

- Permanent rehabilitation
- Infrastructures reconstruction
- Building reconstruction
- Reinforcement of structures,

Post-Disaster

- Damage Assessment
- Follow-up of rehabilitation measures, ..

Rehabilitation

- Temporary rehabilitation
- Re-establishing Transport systems
- Re-establishing communication routes..

Response

- Alarm
- Life, property saving
- Reduction of impact of disaster
- Information dissemination
- Communication

Disasters



TYPES OF DISASTER

An aerial photograph of a coastal city, likely Lima, Peru, showing a large wave crashing against the shore. The city buildings and a highway with cars are visible in the foreground and middle ground. The background shows mountains under a cloudy sky.

Natural Disasters

Meteorological

Topographical

Environmental

Man-made Disasters

Technological

Industrial accidents

Security related

PHASES OF DISASTER

The background of the slide is a photograph of a town that has been severely damaged by a disaster, likely an earthquake. Several multi-story buildings are shown in various states of collapse and tilting. The foreground is filled with a large pile of rubble, including bricks, concrete blocks, and twisted metal. In the distance, there are mountains under a hazy sky.

Pre-impact
phase



Impact
phase



Post-impact
phase

Example of rehabilitation in Aceh

- Tsunami (Aceh)





PLTD APUNG



ULEE LHEUE BEACH





ULEE LHEUE SEAPORT



ULEE LHEUE SEAPORT



ULEE LHEUE MOSQUE





ULEE LHEUE MASS GRAVES



ULEE LHEUE MASS GRAVES





PANTAI ULEE LHEUE





LAMPULO TRADITIONAL SEAPORT









SIRON MASS GRAVES



**OVERVIEW OF EMERGENCY AND DISASTER
MANAGEMENT IN HASANUDDIN UNIVERSITY
(MAGISTER PROGRAM)**

CURRICULUM MAPPING FOR EMERGENCY & DISASTER MANAGEMENT

S E M E S T E R	III	Management of Deceeds (2 credits)	Field Posting (3 credits)													
		Thesis (6 credits)														
	II	Humanitarian Intervension In Emergency (3 credits)	Integrated Emergency and Disaster Service System (5 Credits)				Information & Communication (2 Credits)		ED Operational Plan and Management (5 Credits)							
		Communicable & Non-communicable Diseases (2 credits), Disaster Assessment (2 Credits), Health Administration & Medical Record (1 Credits)														
I	Basic Disaster and Management (3 credits)	Resource Management (4 Credits)			Preparedness and Response Management (4 Credits)			Medical Aspects of EDM (3 credits)								
	Phylosophy (2 Credits), Epidemiology, Biostatistic and Research Metodology (2 Credits), Proffessional Ethics (1 Credits)															
Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

SEMESTER	SUBJECTS	CREDITS
1	BASIC OF EMERGENCY & DISASTER	3
	PREPAREDNESS AND RESPONSE MANAGEMENT	4
	RESOURCE MANAGEMENT	4
	MEDICAL ASPECT OF EMERGENCY MANAGEMENT	3
	EPIDEMIOLOGY, BIOSTATISTIC AND RESEARCH METHODS	2
	PROFESSIONAL ETHICS	1
	PHYLOSOPHY	2
	SUB TOTAL	19

SEMESTER	SUBJECTS	CREDITS
2	INTEGRATED EMERGENCY AND DISASTER SERVICE SYSTEM	5
	HUMANITARIAN INTERVENTION IN EMERGENCY: REFUGEE & IDP MANAGEMENT	2
	DISASTER ASSESSMENTS	2
	INFORMATION AND COMMUNICATION	2
	COMMUNICABLE AND NON COMMUNICABLE DISEASE MANAGEMENT	2
	EMERGENCY AND DISASTER OPERATION PLAN AND MANAGEMENT	5
	HEALTH ADMINISTRATION AND MEDICAL RECORD	1
	SUB TOTAL	19
3	MANAGEMENT OF DECEEDS	2
	FIELD POSTING	3
	THESIS	6
	SUB TOTAL	11
TOTAL		49

DURATION:

Full-time programme of Master of Emergency and Disaster Management is 1.5 years (3 semesters) and is rated to 49 credits (semesters 1, 2, and 3 with 19, 19 and 11 credits, respectively).

THE FULL THESIS:

-The Master Thesis should be concerned with a disaster management issue, which should be clearly formulated. Consists to 30-35 pages excluding annexes (1 page = approximately 2400 characters without spaces, font size 12 pt. line space 1.5).

-The Thesis has to be written according to current guidelines for scientific literature. The Thesis should demonstrate that the individual student is able to deal with complex problems, which demand integration of empirical data, theory and methods.

-The Master Thesis might be based on a desk-study (e.g. literature review), on secondary data (e.g. records from health care facilities), or primary data collected either previous to the start of the study programme or as a mini fieldwork (max 4 weeks).

OVERVIEW OF SINGHEALTH PROGRAM

This program was created in partnership with Hasanuddin University to:

1. train specialists in Disaster medical management
2. Create a Disaster Medicine Education program for Makassar, Indonesia
3. Train at least 50- master Trainers for the program and these, in turn, will help train many more disaster medical workers





OVERVIEW

Profile of participants The participants were from various healthcare institutions in Sulawesi Selatan, some within Makassar and some outside Makassar. Most were from the healthcare sector. There were also some from various agencies in the area that were also involved in Disaster management, such as the BPBD, BaSARNas, Police, Indonesian Red Cross and the office of the Mayor

OVERVIEW

Visits: The various programs were conducted over a total of eight visits, the first of which was in February 2014 and the last visit in February 2016. The training was provided by a team of Senior doctors from the SingHealth institutions of Singapore General Hospital and Kandang Kerbau Hospital



Assessment of Programme

Further Participants trained by Master Trainers: By the close of the two years, the Master Trainers had trained another 106 healthcare workers and 67 community first responders. Of the 106 additional healthcare workers trained, the breakdown by courses is as follows:

- | | |
|-------------------------------------------|-----|
| i. Basic Cardiac Life Support +AED Course | 88 |
| ii. Basic Disaster Management Course | 101 |
| iii. Hospital Disaster Management Course | 106 |
| iv. Basic Hazmat Medical Support | 91 |

Assessment of Programme

The training programmes have been cascaded and about 1300 more healthcare workers and community first responders have been trained in the third year of the program.

Assessment of Programme

Visit to Singapore by senior disaster leaders from Makassar: SingHealth organized and conducted a 3-day visit of a team of six senior officers from Makassar from the various disaster response agencies led by the Deputy Mayor of the City in January 2016.

Assessment of Programme

Changes/improvements in pedagogy/curriculum/standard operating procedures by the close of the program:

1. All training manuals have been translated to Bahasa Indonesia to better facilitate communication for future course participants.
2. All training slides were translated to Bahasa Indonesia to enhance use by Master Trainers and understanding by course participants

Evaluation on Implementation

Challenges of implementation

1. Planning for long-term sustenance of the program is always a challenge.
2. Addressing mindsets and resistance to change is always a key issue in any new project.

Evaluation on Implementation

Assessment of benefiting partner and community:

1. Readiness to benefit, adapt and replicate - This has been demonstrated and further training of healthcare workers and community first responders has begun under the auspices of Hasanuddin University.
2. Leadership/ownership of project - Currently, this is under the University of Hasanuddin.

Evaluation on Implementation

3. It is envisaged that more training centres can emerge even within the province of Sulawesi Selatan. This will hasten the training of healthcare workers and community members in disaster management skills

4. Outcomes-oriented - The group will need to decide on their longerterm targets and plan appropriately for this.

Evaluation on Implementation

5. Areas they have done well and other areas of improvements:

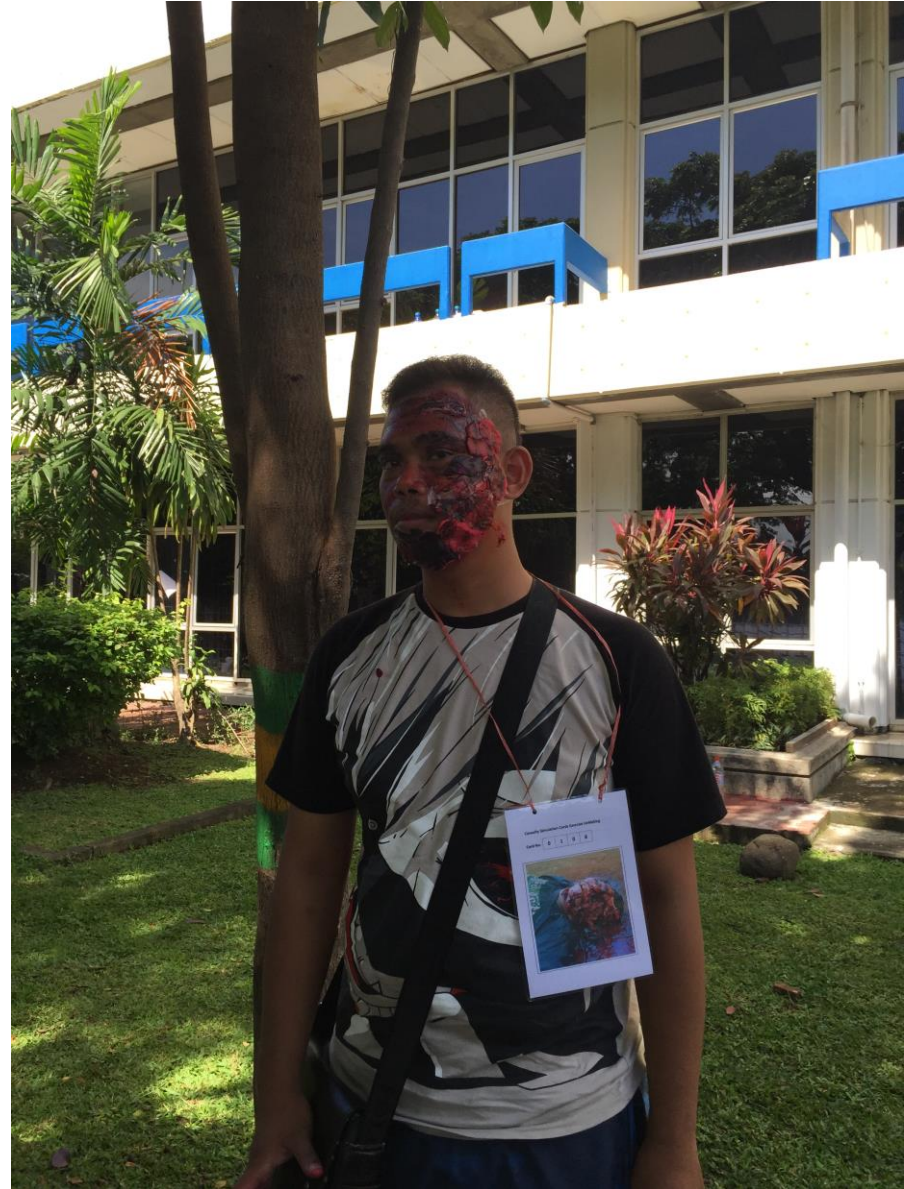
- There is good team spirit within the group of Master Trainers and this is good and should be encouraged
- The University lacks a permanent fixed facility for Disaster Management training..

Indication of Sustainability

- a. The University will continue to organize training in the area of disaster management
- b. The office of the Mayor will continue to support the coordinated conduct of disaster management exercises.

















CONCLUSION

This has been a successful project. The target numbers of trained participants within the two year training period was achieved. As a host agency is now managing the program on our own and will be expected to maintain the momentum of the training programs in the area of disaster care. SingHealth and UNHAS wishes to record our appreciation to Temasek Foundation for the support provided for the conduct of the program in these two years.