CEM 2011

Centara Grand & Bangkok Convention Centre at CentralWorld

Bangkok, Thailand

PAROS MEETING

"Pre-Hospital System in Indonesia" ALI HAEDAR

BRIEF BIOGRAPY



Junior Lecturer & Emergency Medicine Specialist | International Representative of Indonesian Society for Emergency Medicine (ISEM) | Curriculum Workgroup for Emergency Medicine Specialty Training Committee Indonesia | Board member of Rapid Response Team for Eastern Indonesia Region of National Disaster Relief Agency (BNPB) | Board member of International Training Consortium on Disaster Risk Reduction, WHO Indonesia

Department of Emergency Medicine Faculty of Medicine - University of Brawijaya IGD RSU Dr Saiful Anwar Jl. Jaksa Agung Suprapto 2, Malang 65111 , Indonesia Tel/Fax: +62-341-352276 | HP: +62-8123317226 | E-mail: haedaryahya@yahoo.com



Indonesia; The Hypermarket of Disaster

POPULATION DENSITY/ KM2 in INDONESIA

Total population 221.41 million in the year 2005



<30		30 - 100			100 - 500		>500		
Maluku Utara Kalimantan Barat Maluku Kalimantan Timur Kalimantan Tengah Papua	28 27 26 12 12 7	NTT NAD Bengkulu Kalimantan Selatan Gorontalo Sumatera Selatan Bangka Belitung	87 78 74 73 71 63	Riau Sulawesi Tenggara Jambi Sulawesi Tengah	60 50 49 35	NTB Lampung Sumatera Utara Sulawesi Utara Sulawesi Selatan Sumatera Barat	202 199 164 141 134 106	DKI Jakarta Jawa Barat Banten Di Yogyakarta Jawa Tengah Jawa Timur Bali	13.141 1.112 1.050 1.011 995 759 602

Sumber : BPS, Statistik Kesejahteraan Rakyat 2004

Emergency cases in Malang (Haedar, 2007)





Trauma = 13,383 (49.7%) out of 26,907 total annual attendance Trauma cases = 36 persons/day Men = 9758 (72.92%), women = 3625 (27.08%) The mortality rate of the period was 2.8% Saiful Anwar General Hospital Malang:

- 23747 (89%) were brought by other vehicles
- 3160 (11%) were brought by ambulance:
 - 348 (11%) died < 3hrs

Probability of Survival for Trauma Pts

(Haedar, 2007)

Trauma and Injury Severity Scoring (TRISS) and Patients' Outcome (mean = 0,86482; standard deviation = 0,32259)

Probability of survival (Ps)	Surv	/ived	Di	ed	Total	
> 0 5	10745	97.97%	223	2.03%	10968	100%
	Expected	l survivals	Unexpect	ed deaths		
< 0.5	1471	92.28%	123	7.72%	1594	100%
	Unexpected survivals		Expecte	d deaths		10070
Total	12216	97.25%	346	2.75%	40500	
Total	Actual number of survivals		Actual numb	ber of deaths	12562	

The actual mortality was lower than what was predicted based on TRISS norms – that is, W score of 9.93, the number of excess survivals per 100 patients

disaster management cycle



- Re-establishing Transport systems
- Re-establishing communication

routes..

SPGDT-S (Daily Integrated Emergency Care System)



TIME SAVING IS LIFE SAVING SHORTEN RESPONSE TIME REFER THE RIGHT PATIENT, TO THE RIGHT PLACE AT THE RIGHT TIME





SAFE COMMUNITY

PUBLIC SAFETY CENTER



PUBLIC SAFETY CENTRE (PSC) in INDONESIA

- 1. Yogyakarta (Yogyakarta Emergency Service YES 118)
- 2. Medan (PSC)
- 3. Palembang (PSC)
- 4. Bandar Lampung (Pusat Panggilan Gawat Darurat PPGD)
- 5. DKI Jakarta (PSC)
- 6. Makassar (PSC)
- 7. Denpasar (PSC)
- 8. Badung (Emergency Service Centre ESC)
- 9. Banjarmasin (PSC)
- 10. Bangka (PSC)
- 11. Malang (MTS)

Source: Hasil Monev Dit. BUK Dasar



Malang Trauma Service (MTS)

MTS is a spearheading of safe community project, fuses the elements of emergency ambulance service 118, police, and rescue services (e.g., firefighters, SAR)





SAFE COMMUNITY

CARE

- Preparedness
 - Prevention
 - Mitigation

CURE

- Quick Response SPGDT (Life Saving & Limb Saving)
- Rehabilitation

MTS has a main responsible to perform emergency first aid, in order to improve pre-hospital care by ensuring rapid and correct response in saving live and limbs before advance care at the referred hospital.



Destroyed houses at Bantul, Indonesia caused by 6.2 magnitude earthquake on Java island

WHAT DO WE DO?



Standardized Medical Record for Disaster & Pre-hospital

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Integrated Call & Dispatch System









All 118 calls will be directed to the nearest hospital with trauma centre

Training for health care providers and community



MTS has trained BLS for more than 30,000 personnel

Disaster Drill







Yearly joint exercise with multi-disciplines, multi-profession, multi-sectors

First Liner in Disaster









