

害現場での消防・警察・行政などの連携も必要となり、非常に重要である。

カンボジア・ラオスは、救急医療体制の構築が始まったばかりであり、人材育成が最も重要と考える。将来、国の救急医療の中心として活躍できる医師・看護師・パラメディック等を日本で教育するのも一つの方法であろう。国際協力機構の国別研修を利用し、日本が如何に救急医療体制・災害医療体制を構築してきたかを研修する機会を与えるのも良いだろう。

日本は、阪神大震災以降、日本DMATの育成・EMISの構築・重症患者広域搬送システムの構築が行われ、これらの経験・知見は、地震多発国であるインドネシア・フィリピン・ミャンマーの災害医療体制の構築に役立つであろう。

近い将来、ASEAN地域内で発生した災害に対して、ASEAN諸国が互いに医療支援体制を構築するようになると思われる。その為には、域内での災害時対応の標準化、教育の標準化、災害用語の統一、災害時サーベイランスの統一等が必要となると思われる。日本は、それぞれ参考となる標準されたものがあり、ASEANバージョンを作成する場合、大いに役立つと思われる。

G. 研究発表（なし）

1. 論文発表（なし）
2. 学会発表：Tomoaki Natukawa, Tatsuro Kai: The current situation of disaster management in ASEAN Member States. 19th World Congress on Disaster and Emergency Medicine. Apr.22.2015. Cape Town in South Africa

H. 知的財産権の出願・登録状況（なし）

1. 特許取得（なし）
2. 実用新案登録（なし）



Abstract 695

The current situation of disaster management
in the ASEAN Member States

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Abstract 695

The current situation of disaster management
in the ASEAN Member States

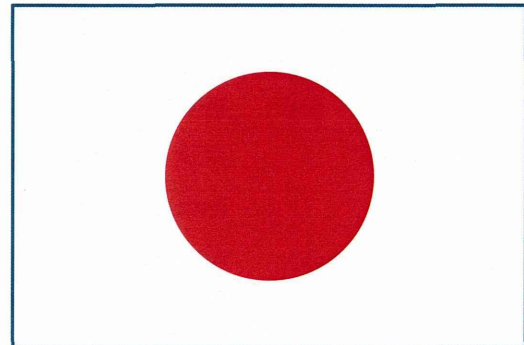
DISCLOSURE INFORMATION

Presenting Author: Nothing to declare

Co-Author: Nothing to declare



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WAISGLASS/COULTHART
"What conflict of interest?!!
I work here in my spare time."



BACKGROUND

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- ✓ The ASEAN region is one of the most vulnerable regions to natural disasters in the world.
- ✓ In Southeast Asia, natural disasters claimed **over 250,000** lives from 1998 to 2011 accounting for **61.6%** of all disaster related deaths globally.

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Efforts so far

year	mon	event
1988-2008		JICA training course on Emergency and Disaster Medicine
2008		Establishment of Thai DMAT
2009	Dec	ASEAN Agreement on Disaster Management and Emergency Response (AADMER)
2013	Oct	ASEAN Declaration on Enhancing Cooperation in Disaster Management
	Dec	Joint Statement of the ASEAN-Japan Commemorative Summit
2014	Apr	The first ASEAN Disaster Medicine Workshop
	Dec	The first regional meeting In-country survey of ASEAN Member States
2015	Mar	The second regional meeting

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EMERGENCY MEDICAL SYSTEMS

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Emergency Transport Systems

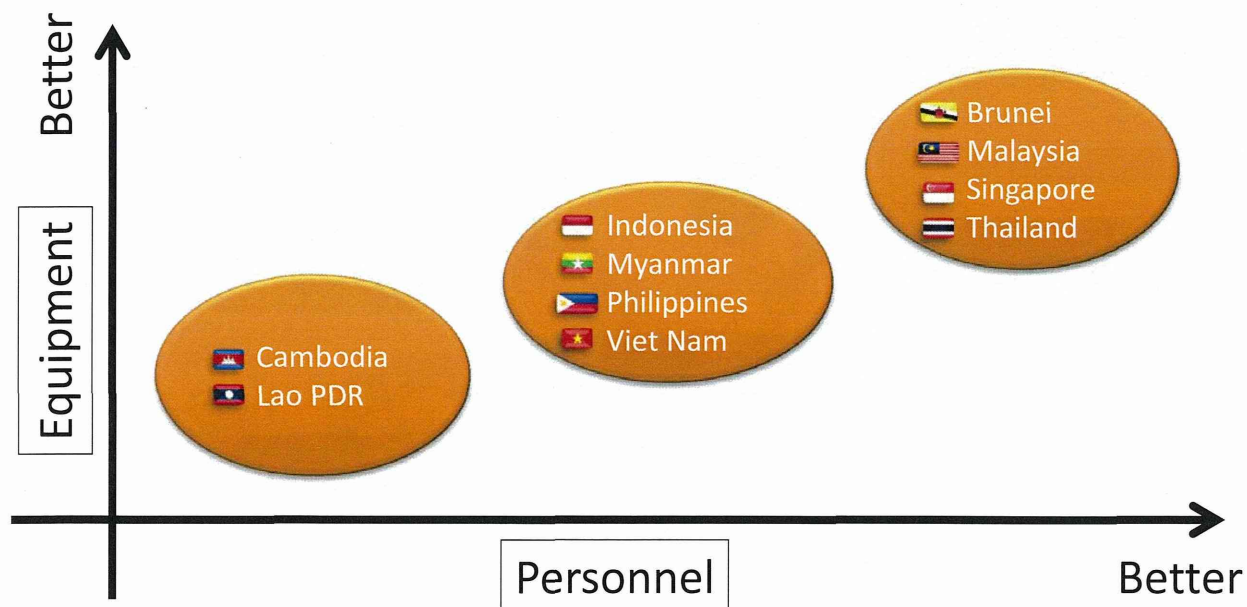
	Dispatch system	Ambulance Organisation(s)	Coverage
Brunei Darussalam	Coordinated	Hospitals	Nationwide
Cambodia	Not coordinated	Hospitals, NGOs	Partial
Indonesia	Not coordinated	Hospitals	Nationwide
Lao PDR	Not coordinated	Hospitals, NGOs, POs	Partial
Malaysia	MECC	MECC	Nationwide
Myanmar	Not coordinated	Hospitals, NGOs, FSD, POs	Partial
Philippines	Not coordinated	Hospitals, NGOs, POs	Partial
Singapore	Coordinated	SCDF	Nationwide
Thailand	NIEM	Hospitals, LGs, POs	Nationwide
Viet Nam	Not coordinated	Hospitals, POs	Partial

NGO: Non-Government Organization, MECC: Medical Emergency Coordination Center, FSD: Fire Service Department, SCDF: Singapore Civil Defense Force, PO: Private Organization, NIEM: National Institute for Emergency Medicine, LG: Local Government

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Capacity of Trauma Centers

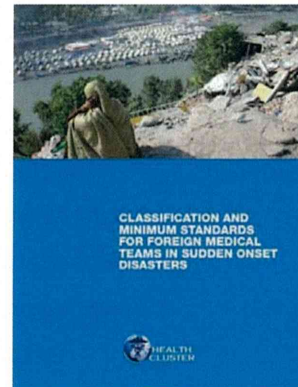


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DISASTER MEDICAL RESPONSE SYSTEMS

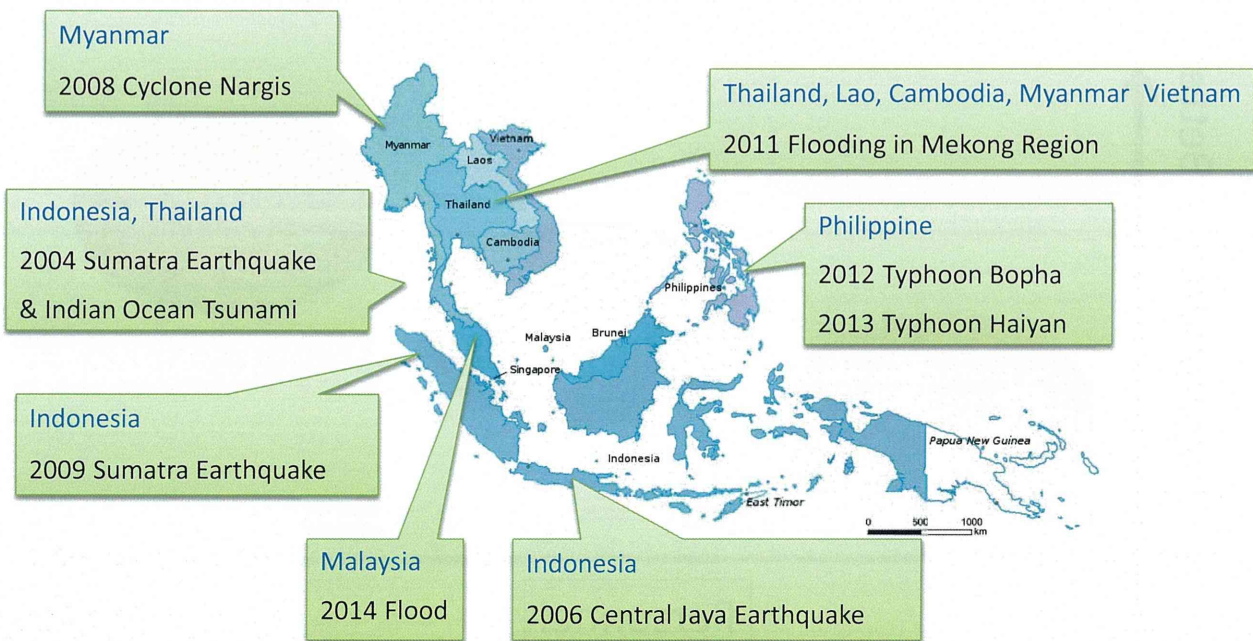
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Recent Mega Disasters



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Risk of Disasters

	Storm	Flood	Tsunami	Earthquake	Volcano
Brunei Darussalam	-	+-	-	-	-
Cambodia	-	++	-	-	-
Indonesia	+	++	+	+++	+
Lao PDR	-	+	-	-	-
Malaysia	-	+	-	-	-
Myanmar	+	++	-	-	-
Philippines	++	++	+	+	+
Singapore	-	-	-	-	-
Thailand	+-	++	+	++	-
Viet Nam	+	++	-	-	-

(EM-DAT <http://www.emdat.be/>)

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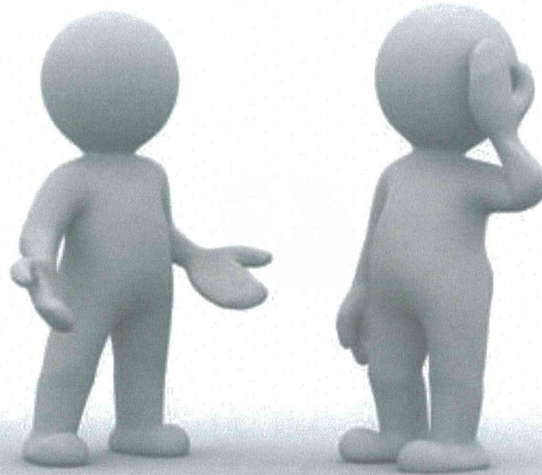
Coordination of Disaster Response

	Acceptance of FMTs	National level	District level
Brunei Darussalam	-	High	High
Cambodia	Low	Moderate	Low
Indonesia	Moderate	High	Moderate
Lao PDR	Low	Moderate	Low
Malaysia	Moderate	High	High
Myanmar	Moderate	Moderate	Low
Philippines	High	High	Moderate
Singapore	-	High	High
Thailand	Moderate	High	High
Viet Nam	Low	Moderate	Low

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PROPOSAL



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Emergency Medical Systems

- ✓ Sharing knowledge and experience to coordinate dispatch centers
- ✓ Sharing knowledge and experience to build an appropriate fare system for ambulances
- ✓ Sharing education opportunities for emergency personnel (Doctors, Nurses, co-medical)

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Disaster Medical System

- ✓ Preparation for mass casualty incidents
- ✓ Centralization of disaster response
- ✓ Share experiences through future disaster responses in the ASEAN region
- ✓ As next step, capacity enhancement of AHA center and ASEC

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ありがとう

Thank you
for your time and interest.

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分担研究報告

「ASEAN 諸国に対する災害時医療情報システムの技術移転の有益性」

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