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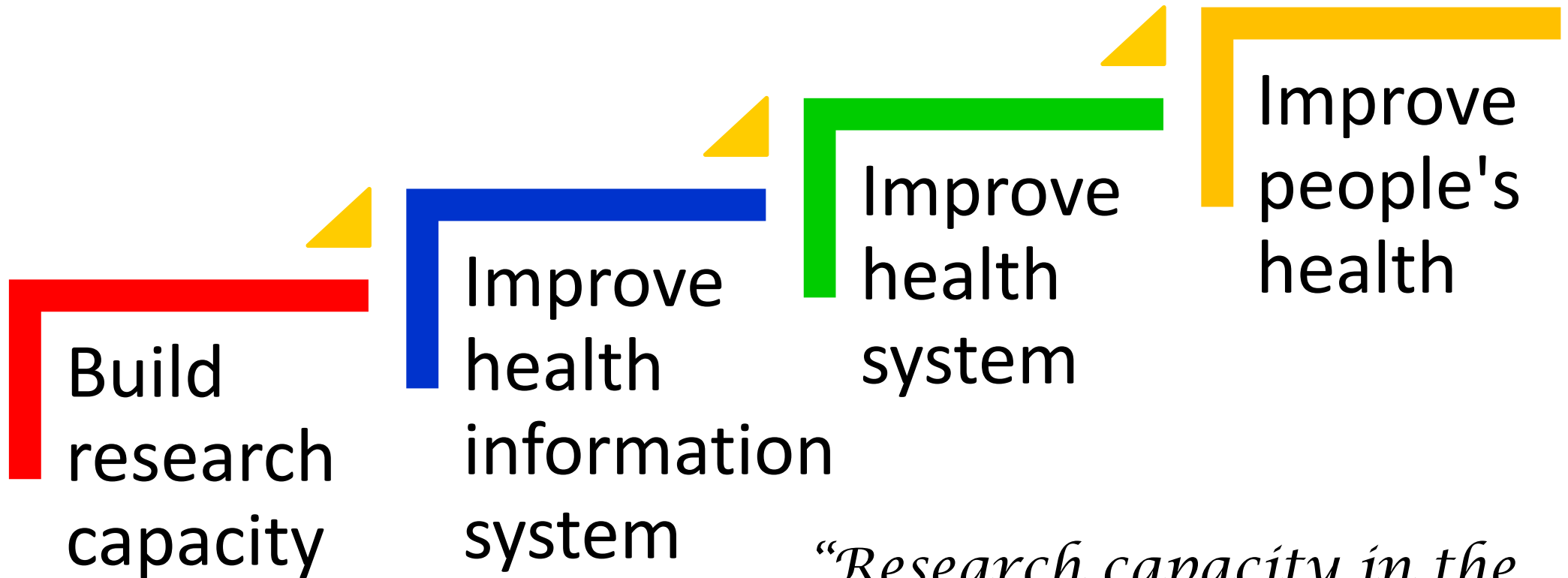
Capacity building toward evidence-based medicine among health care professionals in Ho Chi Minh City

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Background




“Research capacity in the south remains one of the world’s unmet challenges.”

Research capacity strengthening in the South.
Nchinda TC. Soc Sci Med. 2002; 54: 1699-711.

Project progress

This presentation reports achievements and lessons from the Course V.



	Courses I - IV	Course V (Three-series)	Course VI (Two-series)
Time	PAST 2004 – 2009	PRESENT 2010-2012	FUTURE 2013-2015
Grant	Gov. research grants	JICA	JICA + local company
Accreditation	University	University + City	University + City + Ministry
Target	Physicians at university	Physicians in the city	Physicians in the South of VN
Lecturers	JP	JP + VN + Third country	JP + VN + Third country

Project organization

Instructors

Hanoi School of
Public Health

Kagoshima
University

Juntendo
University

National
Institute of
Mental Health

Harvard
University

Local NGOs

Supporting agencies

Ho Chi Minh City Health Service
Japan Epidemiological Association
VN Ministry of Health (Tentative)

Grants



Partnership
Program

Local
company

Organizers



University of
Medicine and
Pharmacy, HCMC



Fukushima
Medical
University



HCMC Medical
Association



Fukushima
Prefecture

Evaluation framework: Kirkpatrick Model

Level 1

Course management and participants' reactions to the courses

- Course evaluation surveys
- Semi-structured interviews

Level 2

Changes in knowledge, skills, attitude

- Self-evaluation of achievements
- Knowledge tests

Level 3

Changes in behaviors in research

- Semi-structured interviews
- Post-course e-mail surveys
- Research projects' products

Course content

*NOTE. There were **two groups**; Audit Group (lectures only) and Project Group (lectures and group works *)*

	Course V-1	Course V-2	Course V-3
Duration	5 days (2011)	4 days (2012)	4 days (2012)
Lecture	<ul style="list-style-type: none"> - Basic and advanced* lectures on epidemiology - Survey examples 	<ul style="list-style-type: none"> - Basic and advanced* lectures on biostatistics - Software demo* 	<ul style="list-style-type: none"> - Review lectures of epi and bio - Basic lectures on scientific writing - Survey examples
Group work	<ul style="list-style-type: none"> - Critical appraisal - Proposal writing* 	<ul style="list-style-type: none"> - Data analysis* 	<ul style="list-style-type: none"> - Abstract writing*
Evaluation	<ul style="list-style-type: none"> - Group presentations* - Knowledge test 	<ul style="list-style-type: none"> - Group presentation* - Knowledge test 	<ul style="list-style-type: none"> - Group presentation* - Knowledge test

KM Level 1: Course evaluation surveys

	V-1	V-2	V-3
Participation % (graduates/ registrants) <i>(# respondents to the survey)</i>	64% (100/157) (N=70)	75% (94/121) (N=57)	99% (71/72) (N=44)
Usefulness of training (superior)	94%	84%	91%
Selection of topics (superior)	83%	79%	77%
Course materials (superior)	86%	75%	84%
Course duration (long)	31%	32%	32%
Overall level (difficult)	53%	75%	50%
Interest in similar course (superior)	97%	89%	86%

KM Level 1: Semi-structured interviews

*Interviewed 3 first-time and 5 returned participants

Positive opinions

“It’s practical and relevant for clinicians.”

“Most are hands-on skills and steps so they’re easier to apply than theory-based facilitation methods...”

Negative opinions

“Information about the courses should be disseminated more widely so that more clinicians know.”

“Writing abstract (Course 3) seems a long way off as we need to be able to conduct research rigorously by ourselves first.”

KM Level 2: Self-evaluation of achievements

	V-1 (N=64)	V-2 (N=57)	V-3 (N=44)
Increased knowledge of ...			
Epidemiology	89%	-	89%
Biostatistics	-	61%	66%
Gained confidence in...			
Conducting research	64%	44%	70%
Designing research	70%	54%	73%
Understanding scientific evidence	84%	53%	91%
Analyzing data	-	44%	59%
Writing a scientific paper	-	-	75%

KM Level 3: E-mail survey

- Response rate: 19% (31/160)
- 26 (84%) had searched for scientific evidence
- 18 (72%) participated in research
- 22 (79%) analyzed patient data
- 14 (48%) presented
- 11 (38%) published research findings

KM Level 3: Group projects achievements

- 6 research projects were launched by participants
- 2 publications in international journals
 - Dao AT, et al. Risk factors for early fatal outcomes among children with Hemophagocytic Lymphohistiocytosis (HLH). *Pediatr Hematol Oncol*. 2013 Dec 5. [Epub ahead of print]
 - Nguyen VQ, et al. Prevalence and correlates of zinc deficiency in pregnant Vietnamese women in Ho Chi Minh City. *Asia Pac J Clin Nutr*. 2013;22:614-9.
- 1 presentation in an international conference
 - Vo TK, et al. Erectile dysfunction among men with type 2 diabetes: Prevalence and risk factors. 17th Congress of ASEAN Federation of Endocrine Societies, 2013.

KM Level 3: Semi-structured interviews

*Interviewed 3 first-time and 5 returned participants

Positive story

“I become very confident when I suggest revising a protocol and explain reasons for those suggestions. Since 2005, I have conducted 4 researches and presented them to the Scientific Review Committee. Everyone said ‘This is the presentation that looks very modern’. As a member of the Scientific Review Committee, I can guide people to do better research.”

Barriers in conducting research

“It is necessary to change the minds of leaders in the local areas. Sometimes they encourage staff to conduct research just to gain points in the annual assessment checklist.”

Achievements

- ❖ Our training has been **upgraded** from the university to the city level with an increasing ownership by the Vietnamese side.
- ❖ Despite complex course management (three-series, audit and project groups), over 80% found the courses **useful**.
- ❖ Participants actually **applied** what they learned in conducting research and publications.

Lessons learned

- ❖ Improve techniques to teach biostatistics
- ❖ Match participants' needs with the teaching content; teaching publication skills to clinical practitioners should be reconsidered
- ❖ Wider recruitment and broader announcement of the course
- ❖ Improve KM Level 3 evaluation (esp. e-mail survey)

Upcoming activities

- ❖ Publication of a course textbook (Will be available on web)
- ❖ Course VI-1 in August 2014 (Ho Chi Minh City)
- ❖ Training-of-trainer in April 2015 (Fukushima)
- ❖ Course VI-2 in August 2015 (Ho Chi Minh City)

