



# Epidemiological Research Training Course VI-1

August 3-7, 2014

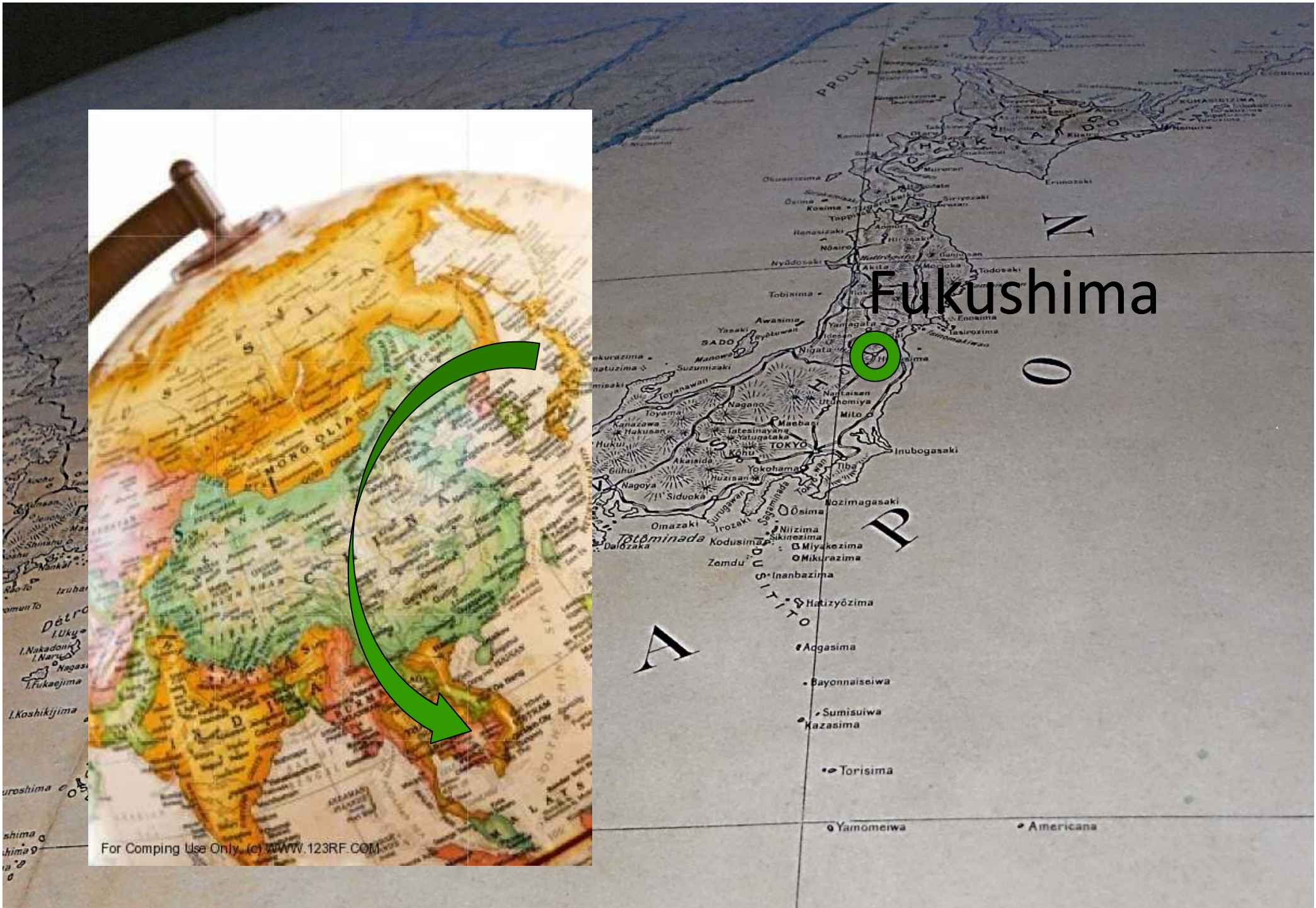
Ho Chi Minh City, Vietnam



FUKUSHIMA  
MEDICAL  
UNIVERSITY

Aya Goto





Fukushima



We deeply appreciate your thoughtful and generous supports after the 3.11 disaster.

Mindful of your encouragements, we continue to expand JICA Partnership Project's epidemiology training course. Now, more than ever, we feel that **international health activities enrich all participating countries**, rather than being a one-way flow support from one side to the other.

<http://cbbstoday.org/specialeditions/xxx3/index.php>





# Evidence

Japan: health after the earthquake. **Lancet** 2011; 377: 968.

Normile D. Fukushima revives the low-dose debate. **Science** 2011; 332: 908-910.

Christodouleas JP, et al. Short-term and long-term health risks of nuclear-power-plant accidents. **Engl J Med** 2011; 364: 2334-2341.





- ❖ Public health nurses in Fukushima City are facing raising anxiety among mothers regarding health effects of low-dose radiation exposure.
- ❖ How would you act when you receive a question like “How should we respond to community’s worries?”

## ❖ Acute phase: Collect information from public health nurses

Goto A, Reich MR, Yuriko S, et al. Parenting in Fukushima City in the post-disaster period. *Disasters*. 2014; 38 Suppl 2: s179-s189.

## ❖ Sub-acute phase: Analyze readily available data (E.g. children's health checkup files)

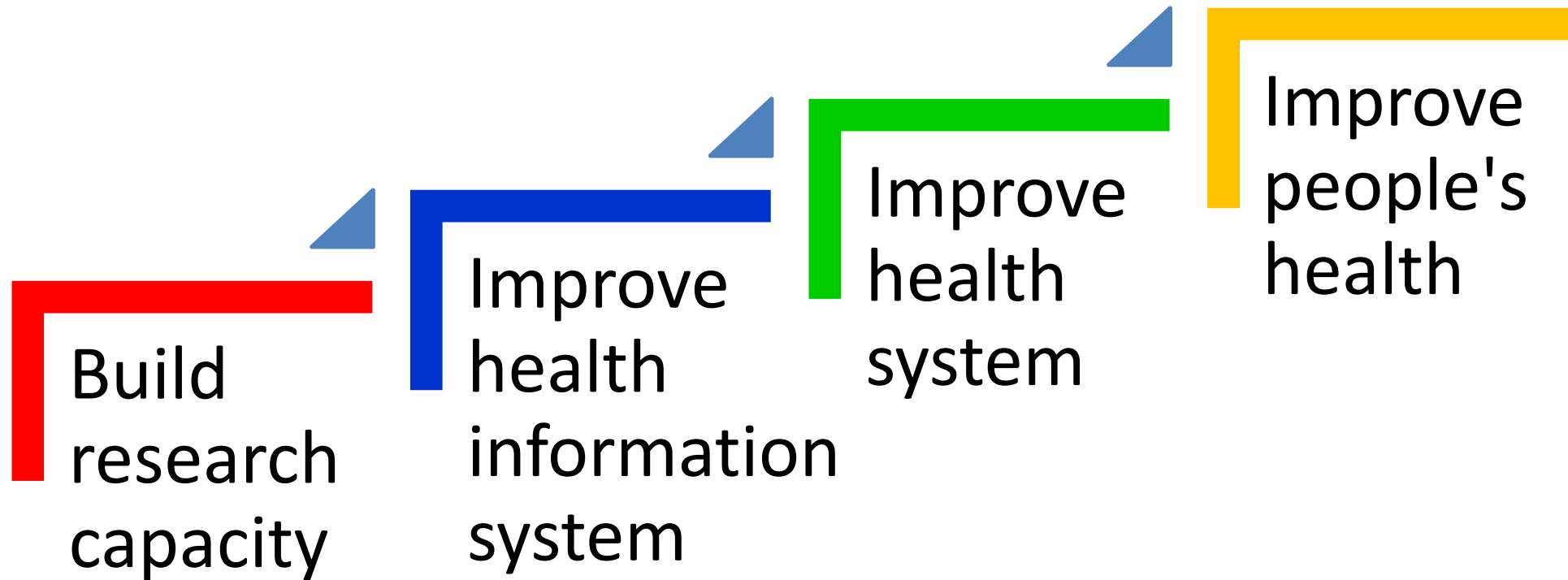
Goto A, Rudd RE, Bromet EJ, et al. Maternal confidence of Fukushima mothers before and after the nuclear power plant disaster in Northeast Japan. *Journal of Communication in Healthcare*. 2014; 7: 106-116.

## ❖ Chronic phase: Continue to provide training opportunities to public health nurses

Goto A, Rudd RE, Lai AY, et al. Leveraging public health nurses for disaster risk communication in Fukushima City. *BMC Health Services Research*. 2014; 14: 129.



# Theory Behind

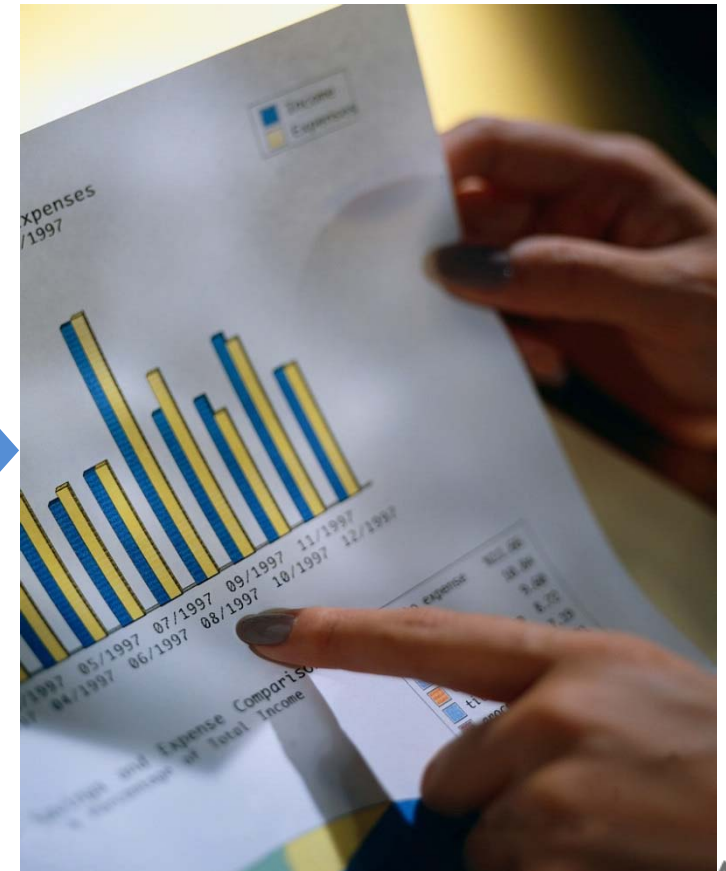
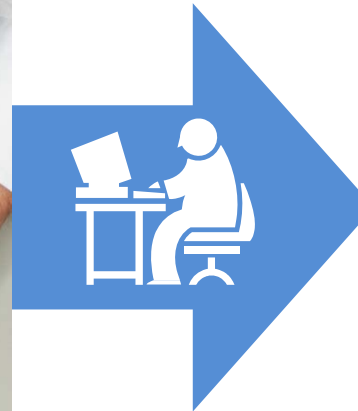


Research capacity strengthening in the South.  
Nchinda TC. Soc Sci Med. 2002; 54: 1699-711.





# Building Evidence



# Project Progresses

	Courses I - IV	Course V (Three-series)	Course VI (Two-series)
Time	2004 – 2009	2010-2012	2013-2015
Grant	Gov. research grants	JICA	JICA + local company
Accreditation	<b>University</b>	University + <b>City</b>	University + City + <b>Ministry</b> (tentative)
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

Oregon State  
University

RTCCD

## 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



HCMC Medical  
Association



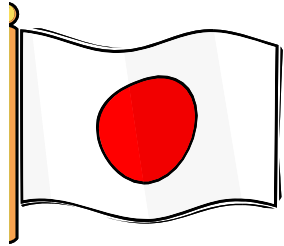
Fukushima  
Medical  
University



Fukushima  
Prefecture

\*Course VI-1 was funded in part by the HCMC Medical Association's CME Partnership Grant with Novartis Vietnam, which was initiated by one of graduates of a past course.

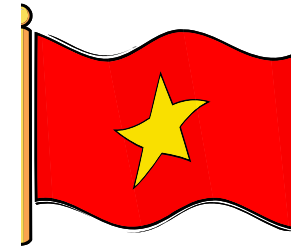
# Partnership



JAPAN

Research training

Collaborative  
research



VIETNAM

Medical education

Collaborative  
research



FUKUSHIMA  
MEDICAL  
UNIVERSITY



# Course content

Morning classes	Afternoon classes
Lectures and exercises on basic epidemiology and biostatistics ↓ <b>Examination</b>	Lectures on advanced skills
	Group work on critical appraisal and protocol development ↓ <b>Group presentation!</b>

- ❖ Please confirm whether you are in the audit or the project group.
- ❖ Please note that participation in the examination and group presentations are required for both groups.



# Recommended textbooks

- ❖ **Course textbook (Available on-line)**
- ❖ Gordis L. Epidemiology.  
(WB Saunders Company)
- ❖ Hulley SB, et al. Designing Clinical Research.  
(Lippincott Williams & Wilkins)
- ❖ Motulsky H. Intuitive Biostatistics.  
(Oxford)



# Other on-line resources

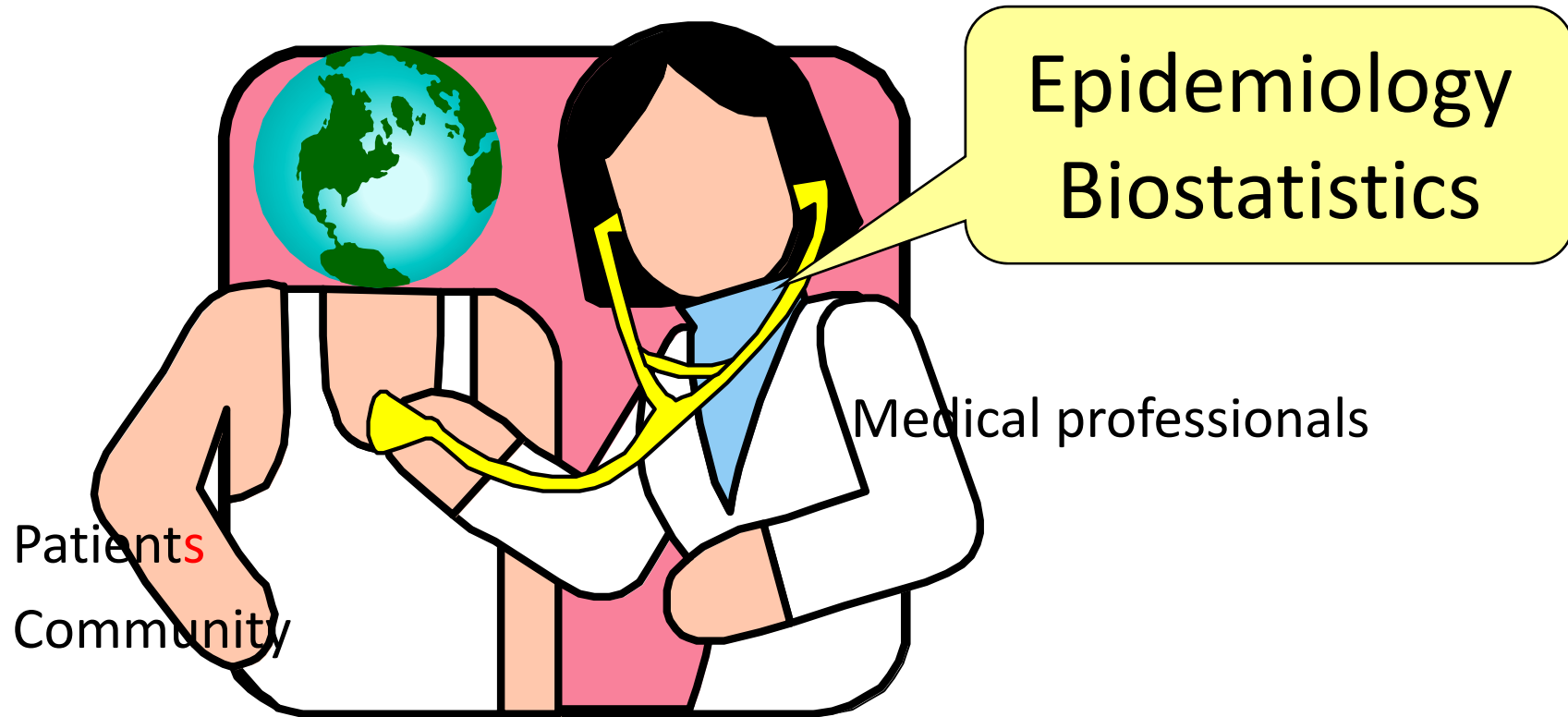
- ❖ University of North Carolina at Chapel Hill  
<http://www.epidemiolog.net>
- ❖ WHO Collaborating Center University of Pittsburgh  
Supercourse –Epidemiology  
<http://www.pitt.edu/~super1/>

For advanced learners....

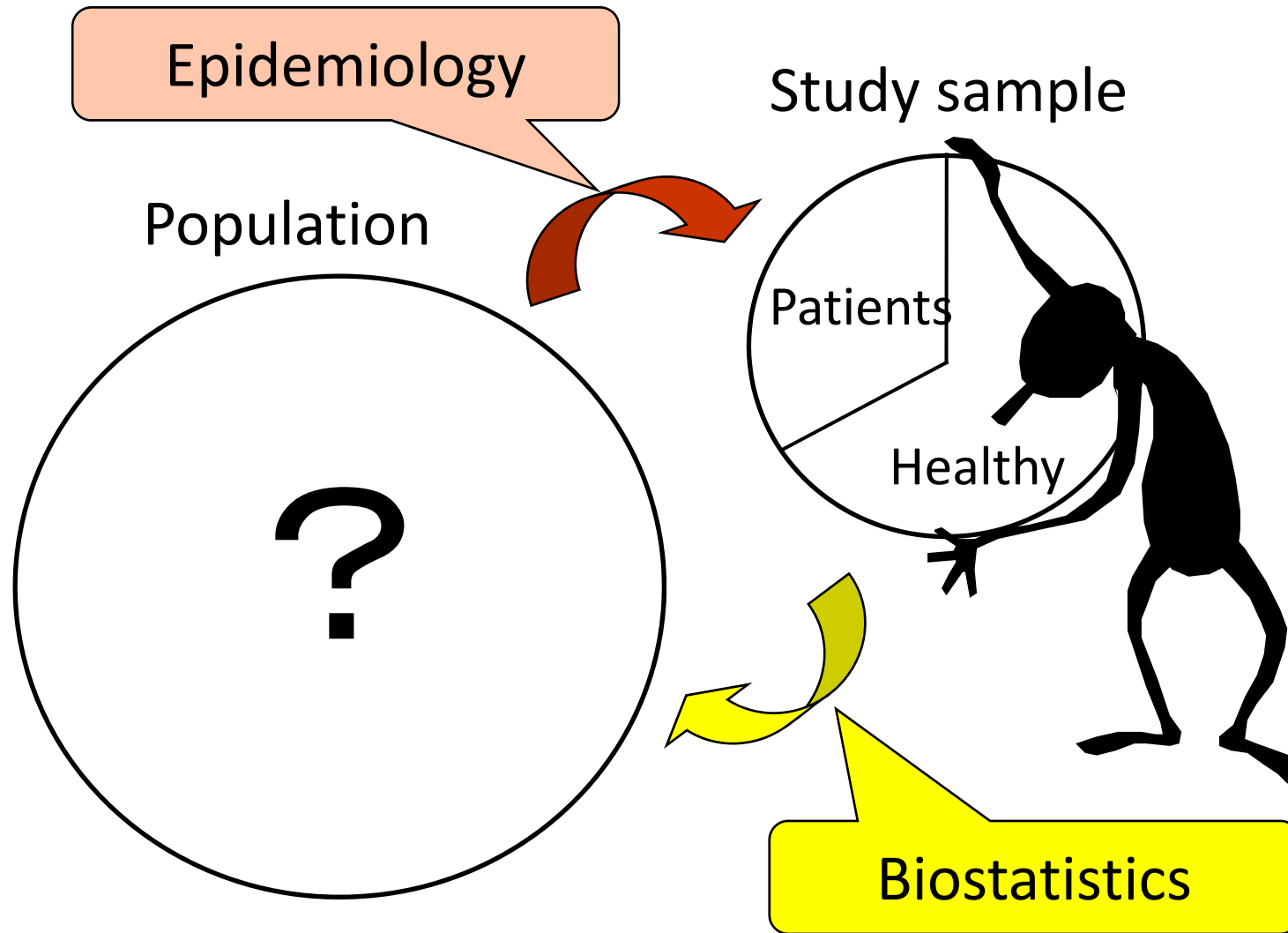
- ❖ Harvard School of Public Health  
Hernan M. Causal Inference Book.  
<http://www.hsph.harvard.edu/miguel-hernan/causal-inference-book/>



# Functions of research methods







# Basic research steps

Protocol development

Main survey

Data management  
(data cleaning and entry)

Pilot survey

Data analysis

Results dissemination

Literature search



“One chance,  
one meeting”



Look around to  
find collaborators.

