



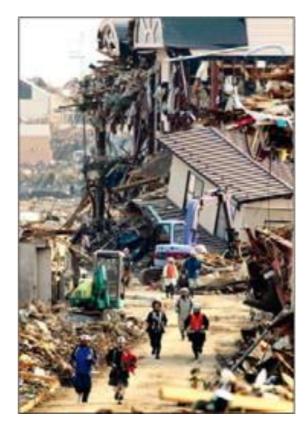
Our long-standing research counterparts in Vietnam kindly made a donation to disaster victims in Fukushima. We also received a message from Ho Chi Minh City Health Service that they were raising funds. We deeply appreciate their thoughtful and generous support. Mindful of their encouragement, we are keeping our plan to execute JICA Partnership Project's epidemiology training course in Ho Chi Minh City this August. 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/images/nolletprs/fmu\_pr07apr11english.pdf

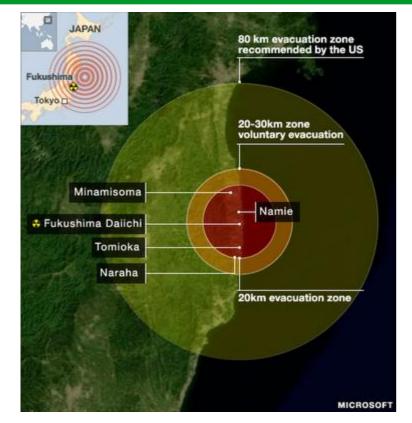


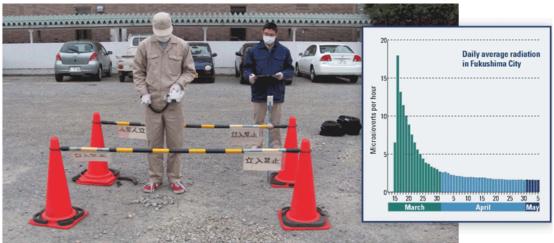
Flooding following an earthquake and tsunami Sendai, northeastern Japan March 12, 2011. TIME http://newsfeed.time.com/2011/03/11/japan-wakes-to-devastation-death-toll-climbs-rescue-effort-continues/

Lancet. 2011; 377(9770): 968. Japan: health after the earthquake.









Normile D. Fukushima Revives The Low-Dose Debate. Science 332 (6032) 908-910. http://www.sciencemag.org/content/ 332/6032/908/F1.expansion.html

http://duniandt.blogspot.com/2011/03/fukushima-disaster-vietnamese.html

Short-term and long-term health risks of nuclear-powerplant accidents.

Christodouleas JP, et al. Engl J Med 2011; 364: 2334-41. http://www.nejm.org/doi/full/10.1056/NEJMra1103676



- Public health nurses in Fukushima City are facing raising anxiety among mothers regarding health effects of low-dose radiation exposure.
- What would you do if you receive questions like "How should we respond? Could you please help us?"



# Research capacity building

Build scientific evidence capacity

Improve health system evidence

Improve people's health

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



# Project history

	Joint research (VN ←→ JP)	Epidemiology training (VN ← JP)	Medical education (VN → JP)	
2002	Reproductive tract infections (JICA)			
2003				
2004	Unintended pregnancy	Epi. Research Training Course I	International Health Elective Training I	
2005			International Health Elective Training II	
2006	Child rearing and perioperative care	Epi. Research Training Course II	International Health Elective Training III	

	Joint research (VN ←→ JP)	Epidemiology training (VN ← JP)	Medical education (VN → JP)
2007	Diabetes care	Epi. Research Training Course III	
2008			
2009	Parenting support	Epi. Research Training Course IV	International Health Elective Training IV
2010		Evidence-based Medicine Training-of-Trainers I	

We have trained 128 health professionals.



### Course content

Afternoon classes Morning classes Lectures on advanced Lectures and exercises on basic epidemiology and biostatistics epidemiology and biostatistics Group work on critical appraisal **Examination** Group presentation! Group work on protocol development Group presentation!

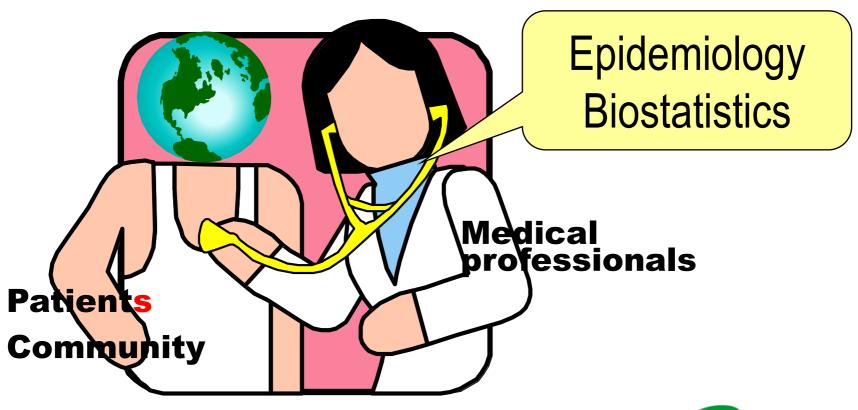
Please confirm whether you are in the audit or the project group.

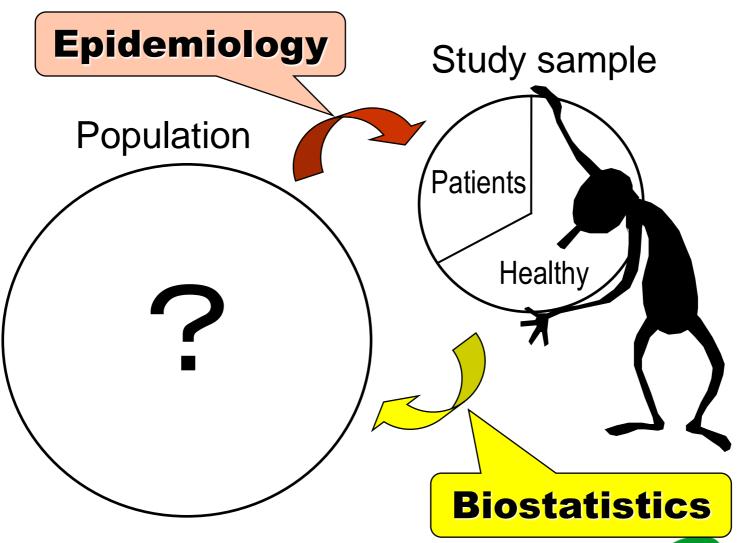


#### Recommended textbooks

- Gordis L. Epidemiology.(WB Saunders Company)
- Hulley SB, et al. Designing Clinical Research. (Lippincott Williams & Wilkins)
- Motulsky H. Intuitive Biostatistics. (Oxford)
- Bonita R, et al. Basic epidemiology.(World Health Organization)

#### 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.



## Key words

- 1. Descriptive analysis of available data
- 2. Cross-sectional study
- 3. Case-control study
- 4. Cohort study
- 5. Intervention study

P-value, confidence interval, relative risk, odds ratio



#### Descriptive study of available data

❖ Journal of Epidemiology. 2005; 15: 163-172.

Aya Goto, Quang Vinh Nguyen, et al.

Prevalence of and Factors Associated with Reproductive Tract Infections among Pregnant Women in Ten Communes in Nghe An Province, Vietnam

issues when phase II of the project started in 2000. According to the outpatient record of the Nghe An MCH/FP Center in 2002, around 40% of the gynecological patients were diagnosed with vulvitis, vaginitis or cervicitis and treated without identifying the pathogens. The results from a situational analysis of the reproductive health services in Nghe An Province revealed that the RTI treatment given was based mainly on clinical symptoms. 10 The information suggests a lack of proper laboratory techniques and SHIMA standardized case management in the region.

#### Cross-sectional study







pregnancy

delivery

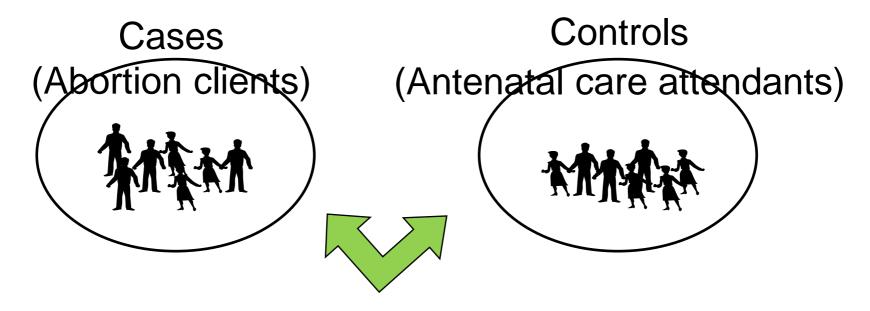
6 months

Follow-up (cohort) study



#### Case-control study

Factors associated with induced abortion among primigravid women in Ho Chi Minh City



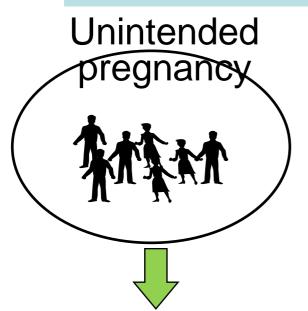
Ask about <u>PAST</u> reproductive related behaviors

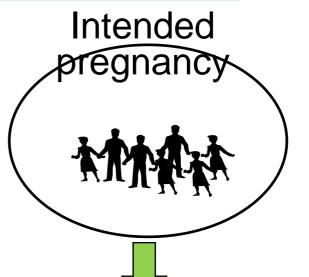


#### Follow-up study

Influences of pregnancy intention on parenting

#### Baseline survey



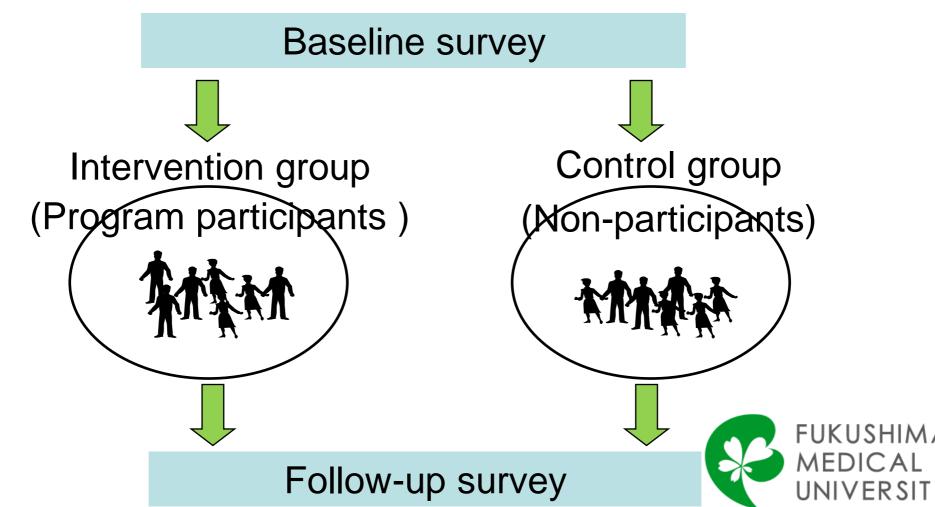


Follow-up survey to see parenting outcomes



#### Intervention study

Effectiveness of a parenting support



#### Web resources

- Boston University School of Public Health. Ann Aschengrau and George R. Seage, 2003. http://publichealth.jbpub.com/aschengrau/index.cfm (Go to Student Resources – Power Point Slides) (For beginners, start with a slide set named "Overview of Epidemiology")
- University of North Carolina at Chapel Hill http://www.epidemiolog.net
- WHO Collaborating Center University of Pittsburgh Supercourse -Epidemiology, the Internet and Global Health- http://www.pitt.edu/~super1/