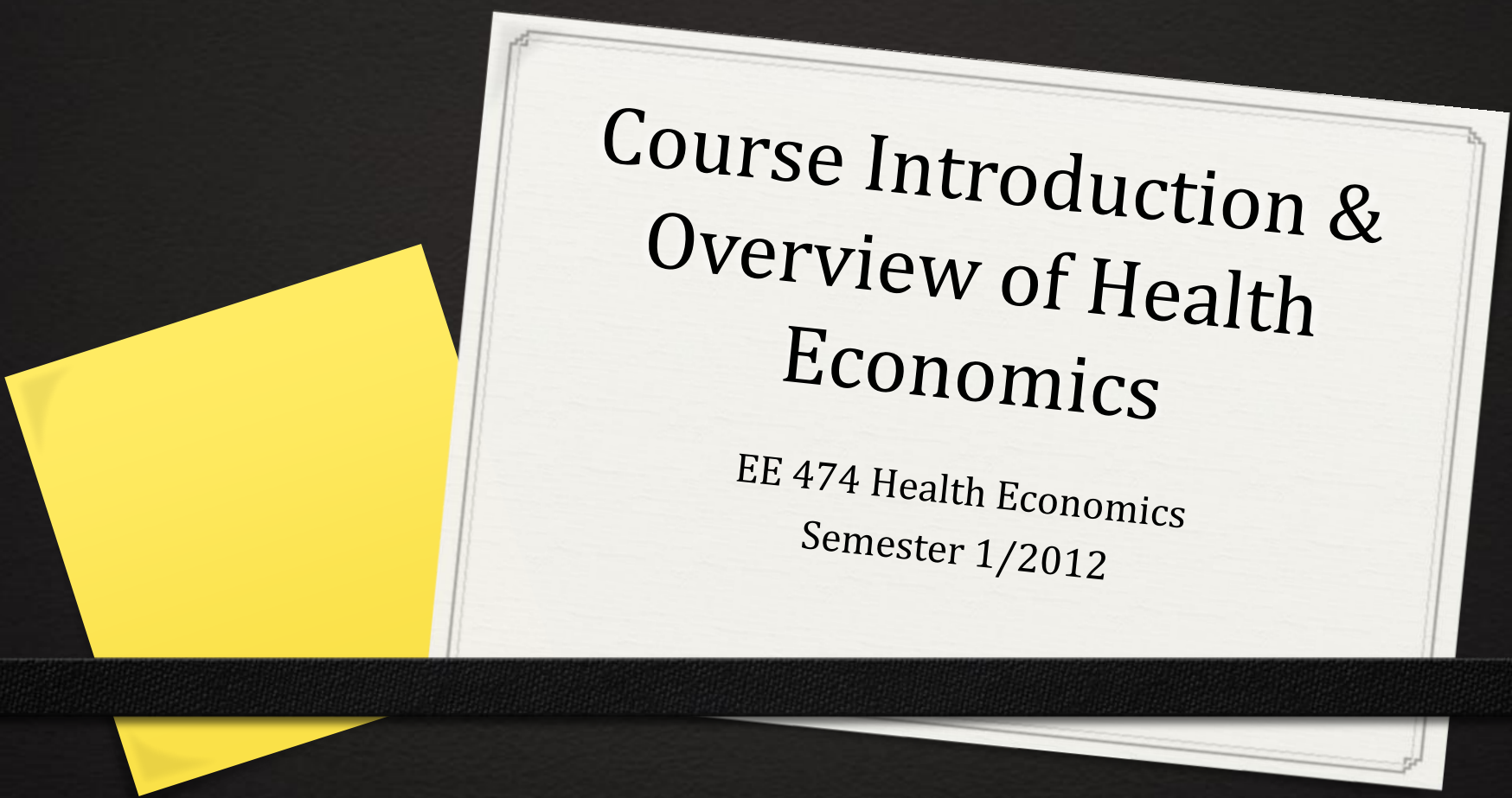




Course Introduction & Overview of Health Economics

EE 474 Health Economics
Semester 1/2012

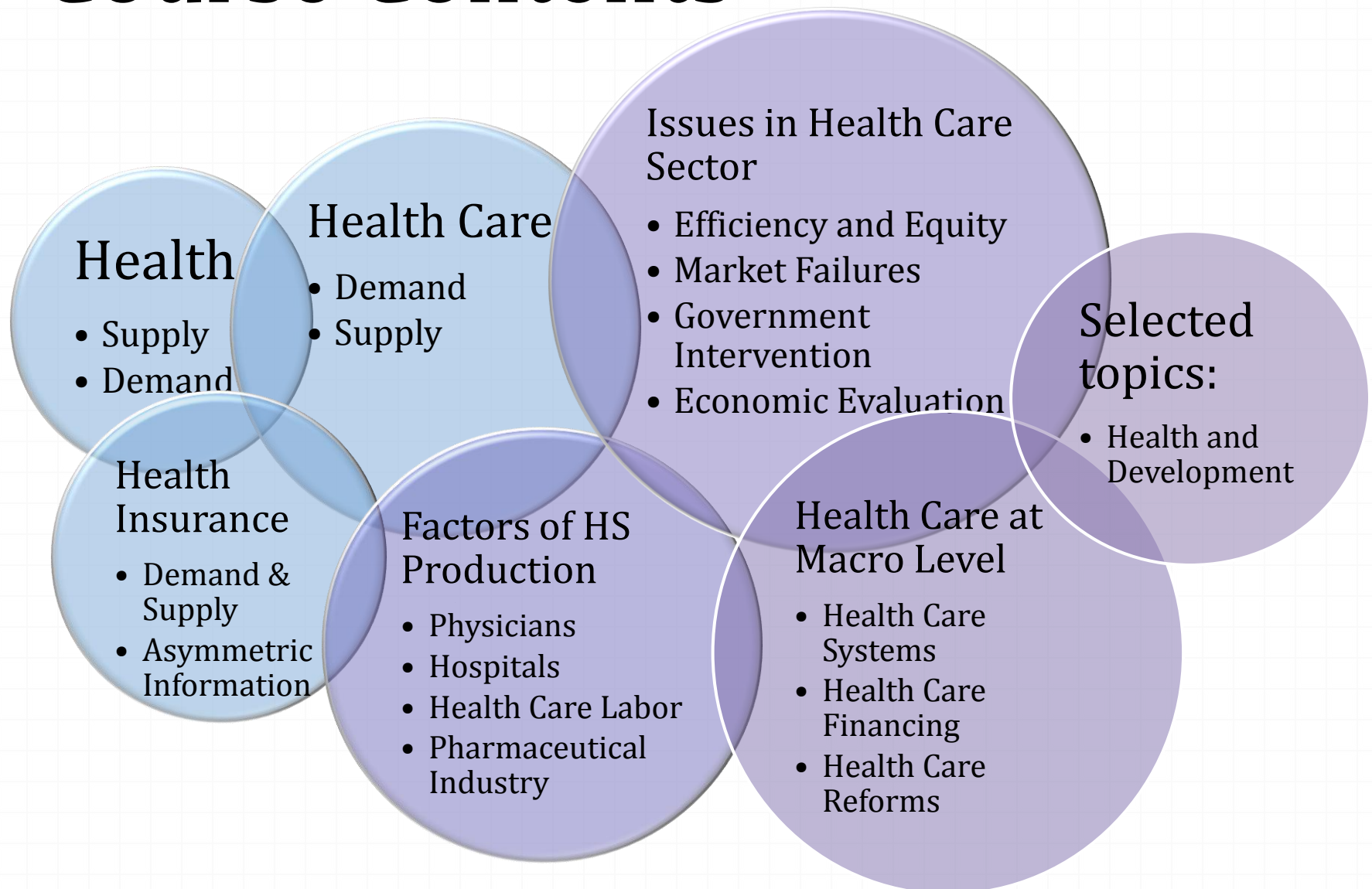
About the Instructor

- Name: Phatta Kirdruang
- Education:
 - B.A. (Economics), McGill University, Canada
 - M.A. (Economics), University of British Columbia, Canada
 - Ph.D. (Major – Applied Economics, Minor – Health Services Research & Policy Administration), University of Minnesota, USA
- Fields of interest:
 - Health economics (particularly public health insurance)
 - Development economics
 - Population studies
- Contact info: phatta@econ.tu.ac.th
- Office hours: Wed & Fri, 2-3pm, and by appointment

Students' Background?

- o Please introduce yourself:
 - o Name & Nickname
 - o Which year of the program are you at?
 - o What makes you interested in health economics?
 - o What do you expect from this class?
 - o What's your future plan (particularly for 4th-year students)?
 - o Others?

Course Contents



Course Organization

- o Meet every Wednesday and Friday, 9:30 -11 am
- o Lectures based style
 - o Class participation are highly encouraged.
- o Classroom *etiquette*:
 - o No cellphone – The number and difficulty level of questions in the exam will increase according to the number of times cellphone rings.
 - o Dress code: no shorts, sandals, tank-tops, or other informal wear .

Evaluation

- Quizzes (20%)
- Referee report (10%)
- Midterm exam (30%) - October 5, 2012
- Final exam (40%) – December 19, 2012

Quizzes

- There are 10 quizzes in total.
- For each quiz, there are two questions: one is based on the materials from the previous lecture; another is based on the assigned readings for the current lecture.
- You will be given 15 minutes at the beginning of the class to complete the quiz. No quiz will be accepted after the first 15 minutes of the class.
- The best 9 (out of 10) quizzes will be counted toward your final quiz grade.

Referee Report

- A summary and critique of one article from a list of selected journal articles or working academic papers
 - Summary: Objective, methods, findings, and conclusion
 - Critique: good points, weaknesses, suggestions, and/or comparison & contrast with other related papers
- The length of the report should not exceed 5 pages (double-space, 12 font).

Readings

o Textbooks

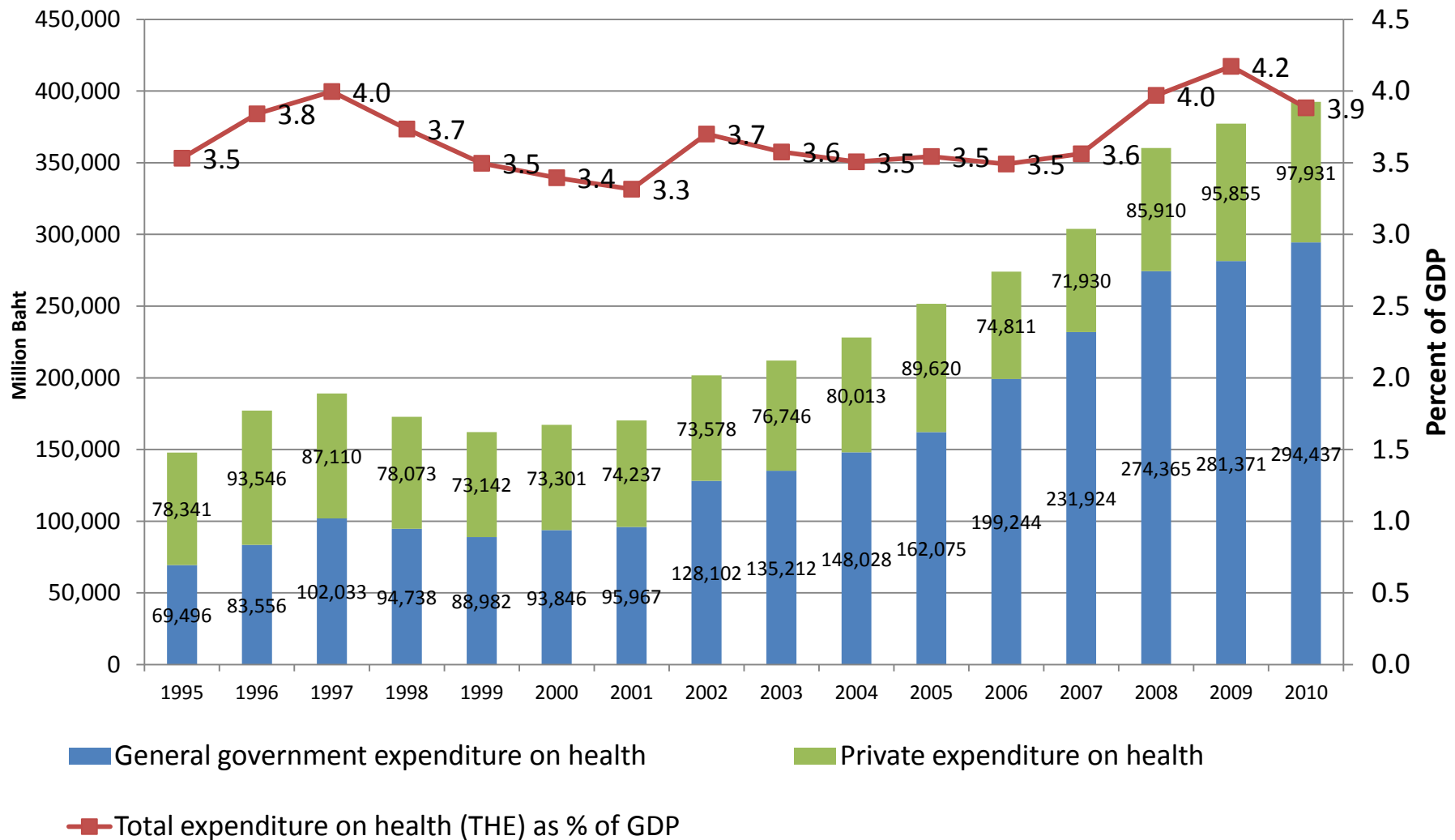
- o Folland, S., Goodman, A. C., and Stano, M. (2012). *The Economics of Health and Health Care*, Seventh Edition. Pearson.
- o Phelps, S. (2010). *Health Economics*, Fourth Edition. Pearson.
- o Santerre, R.E., and Neun, S. P. (2007). *Health Economics: Theories, Insights, and Industry Studies*, Fourth Edition. Thompson.
- o Other readings will be uploaded on B.E. Moodle.

Topics for Today's Lecture

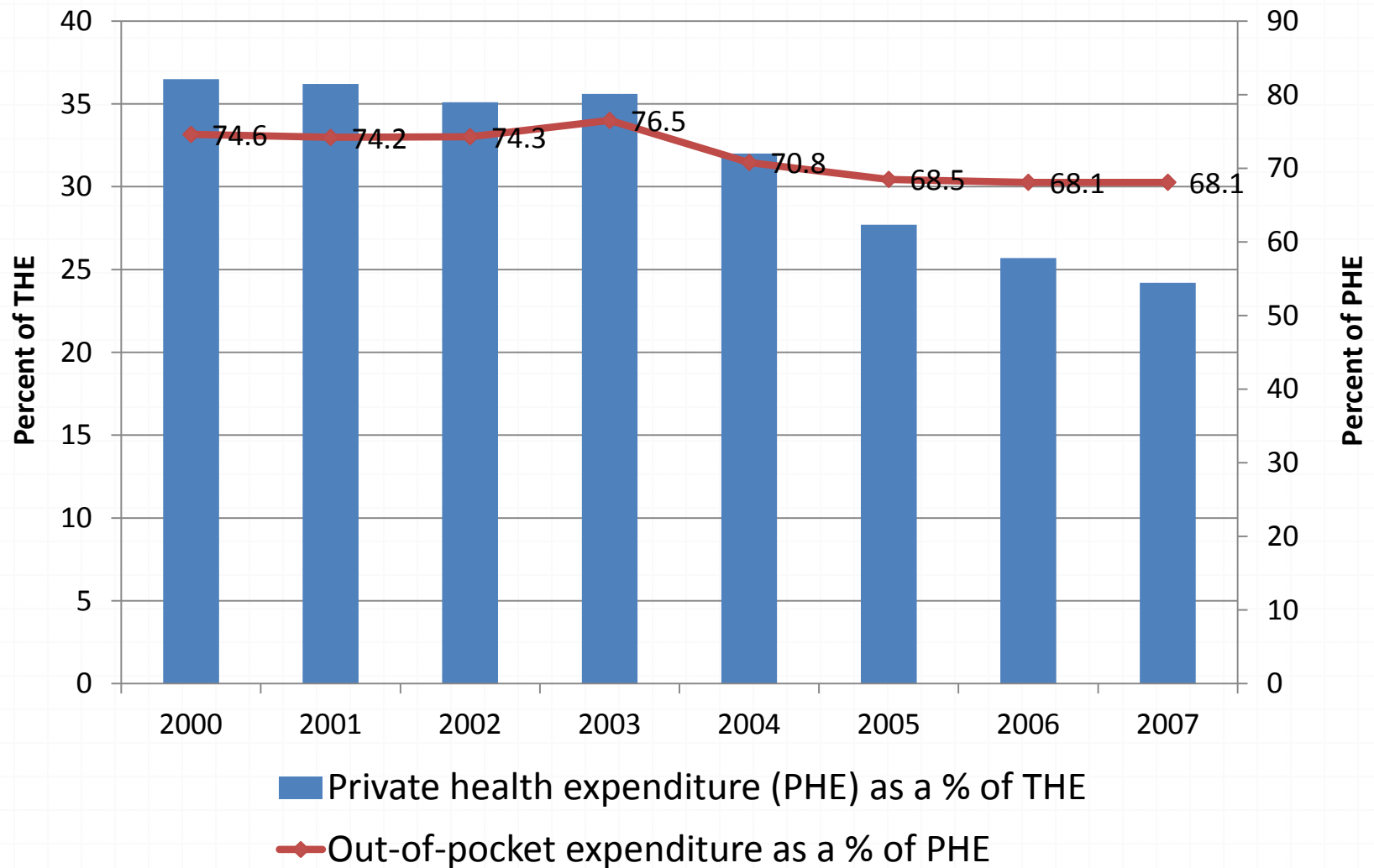
- Why health economics?
- What is health economics?
- What do we study in health economics?

Why Health Economics?

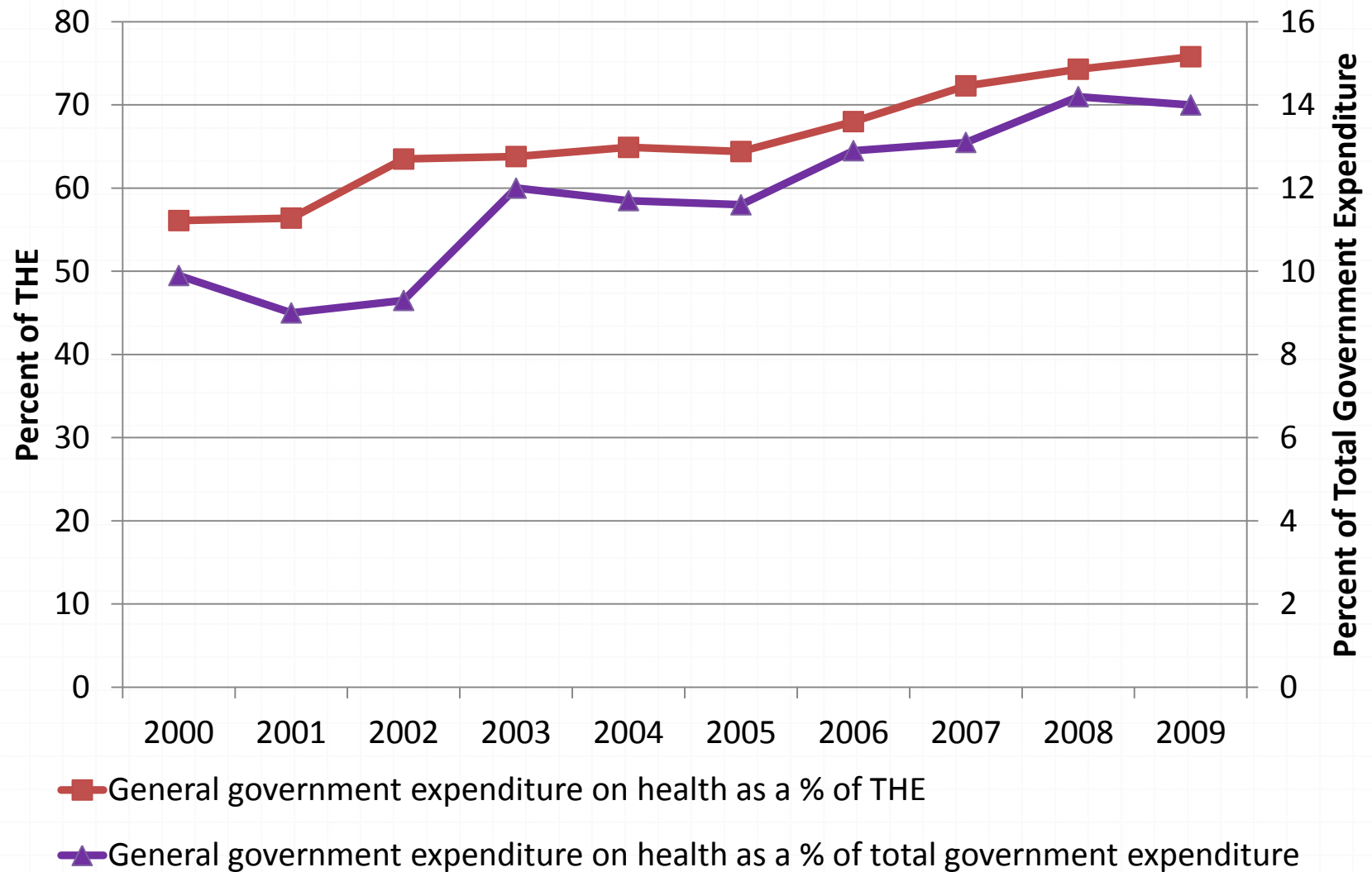
Thailand's National Health Accounts



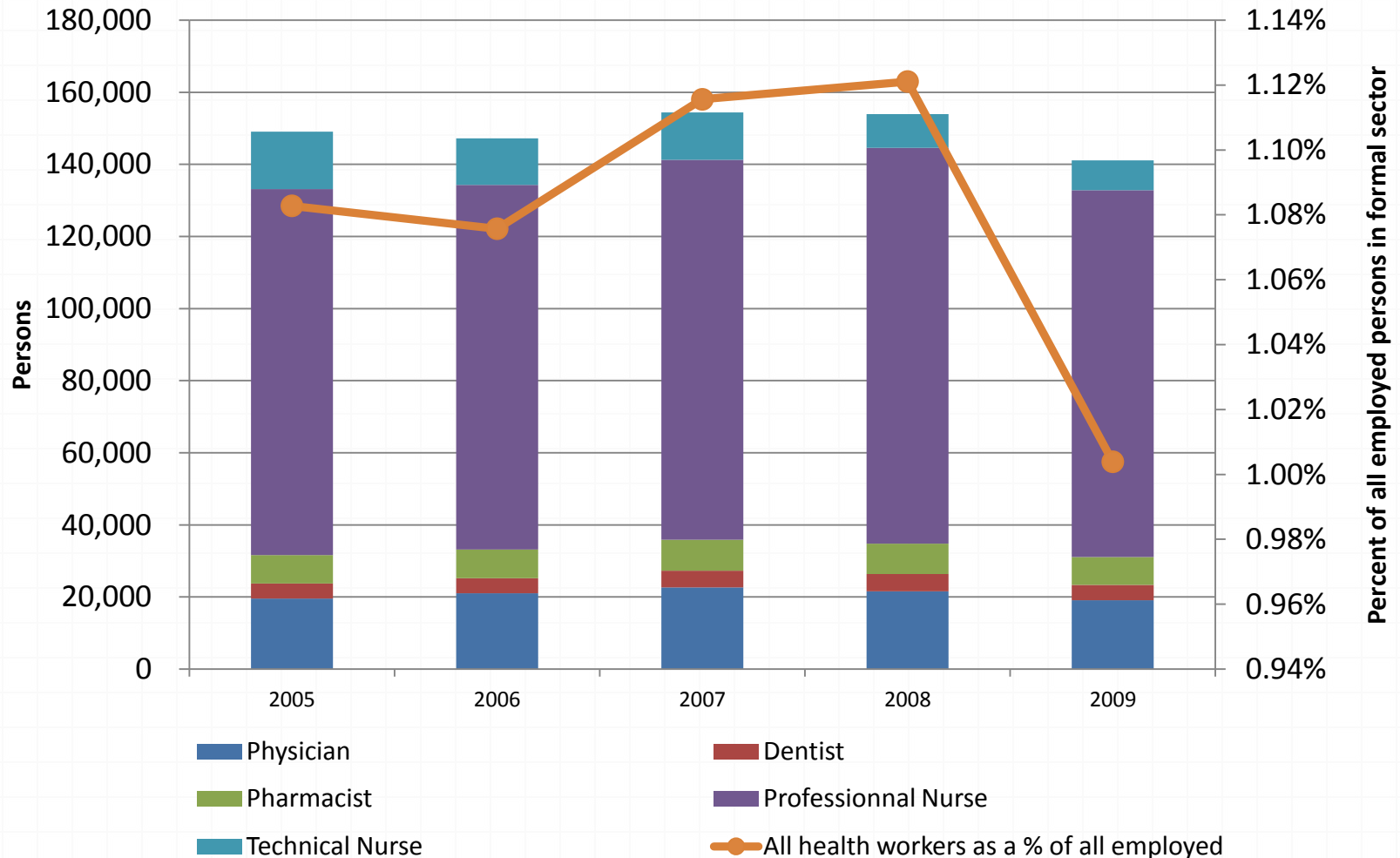
Private Health Expenditures



Government Expenditure on Health



Health Care Workers



Sources: - Office of the Permanent Secretary for Public Health, Ministry of Public Health
 - NESDB

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The Relevance of Health Economics

- Size and contribution of the health sector in the overall economy
 - Large proportion of the GDP
 - Important employment sector
 - Importance in personal spending
- National policy concerns
 - Large share of total government expenditure
- The economic side to other health issues
 - Health care treatment choice
 - Individual health seeking behavior
 - Government's role
 - Etc.

What is Health Economics?

*“**Health economics** ... studies the supply and demand of **health care resources** and the impact of the health care resources on a population.”*

The Mosby Medical Encyclopedia (1992, p.361)

Issues/Problems in Health Economics

○ Examples:

- What contributes to high infant mortality rates in some countries?
- What are the impacts of private hospital mergers?
- How does a certain national health policy affect the income distribution of the population?

○ *Main Goal:*

- To better understand the **economic aspects** of health care problems in order to provide corrective **health policies**

Health Economics Studies

Microeconomics

- Study the behavior of agents in the health economy
 - Demand and supply of health and health care
 - Price determination of health care resources
 - Demand for health insurance

Macroeconomics

- Look at the overall health economy
 - National Health Accounts
 - Health Care Financing

4 Basic Questions

1. What **combination** of **health care** and **other goods and services** should be produced in the economy?
 2. What **specific health care goods and services** should be produced in the health economy?
 3. What **specific health care resources** should we use to produce the chosen health care goods and services?
 4. **Who** should **receive the health care goods and services** that are produced?
- Allocative efficiency
- Production efficiency
- Pareto efficiency

Efficiency

◦ Allocative efficiency

- Producing a level of output where the cost of producing the last unit of output equals to its values (i.e. $MC=MB$).

◦ Production efficiency

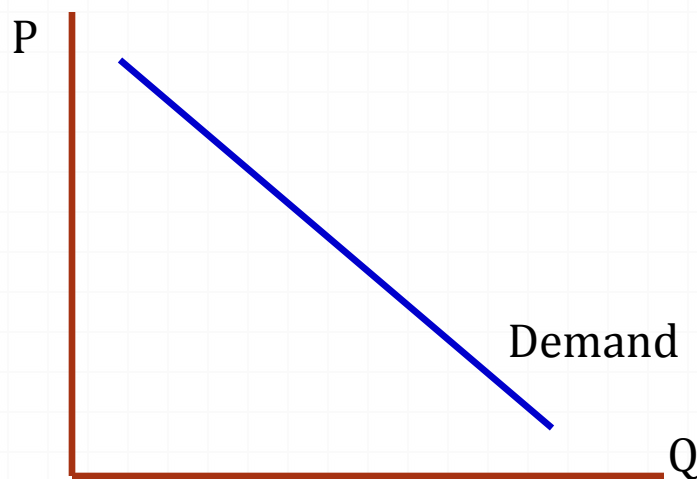
- Achieved when the maximum level of output is being produced from a fixed amount of inputs.

◦ Pareto efficiency

- A condition in which *no one can be made better off without making someone else worse off*.

Economic Analysis: Economic Models

- Simplify a complex problem in the real world
- Describe hypothesized relation between two or more variables
- Could be descriptive, graphical, or mathematical form
- Ex: $Q^d_{\text{cigarette}} = f(\text{Cigarette price})$



Economic Analysis: Empirical Tests

- Empirical testing of health economic theories
 - Use statistical techniques, *e.g. econometric analysis or multiple regression analysis*, to verify or quantify the magnitude of the relation among economic variables
 - Ex: $Q^d_{\text{cigarette}} = a + b * \text{cigarette_price} + c * \text{income} + \dots$
 - Empirical studies are used to determine the *sign* and *magnitude* of the parameter b .

2 Types of Analysis

o Positive Analysis

- o What is? What was? What happened?
- o Examples:
 - o How much would a 10% increase in the price of cigarettes reduce the number of cigarettes consumed?
 - o Does the universal health coverage policy reduce the income inequality in Thailand?

o Normative Analysis

- o What should be? What ought to be? Which is better?
- o Examples:
 - o Should the government increase tax on cigarettes to prevent people from smoking?
 - o Should Vietnam adopt a national health insurance program?

Topics for Next Class

Health and health care from health economists' perspective:

- o How to measure health?
- o How health care is different from other goods and services?