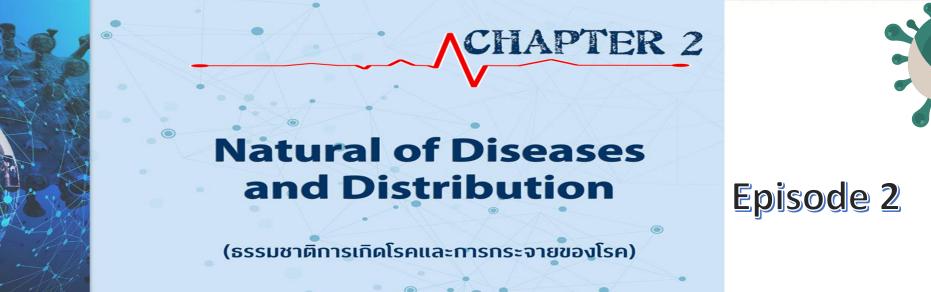


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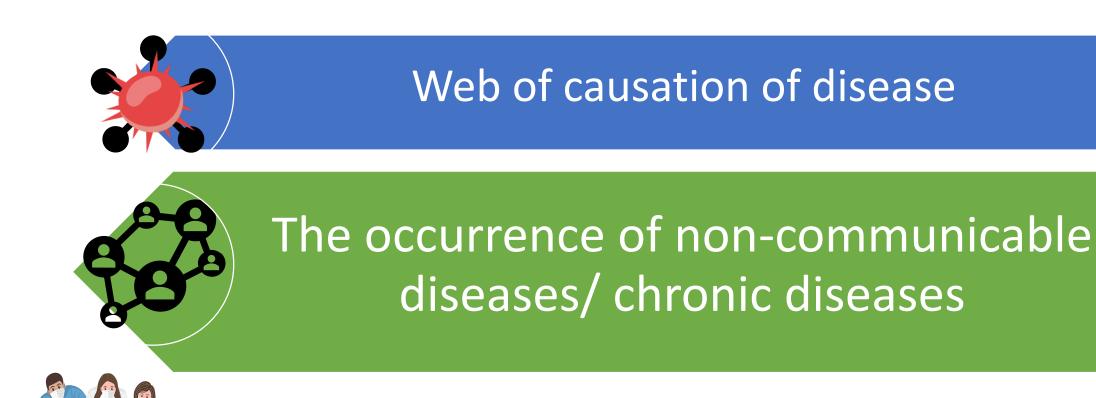
.....

Wanpen Waelveerakup, Dr.P.H. Email: wanpenw@webmail.npru.ac.th



THE CONTENTS OF THIS CHAPTER

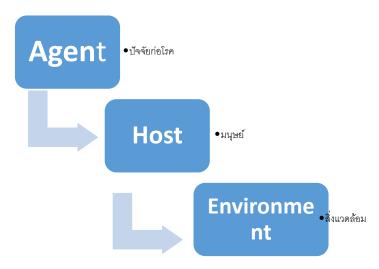




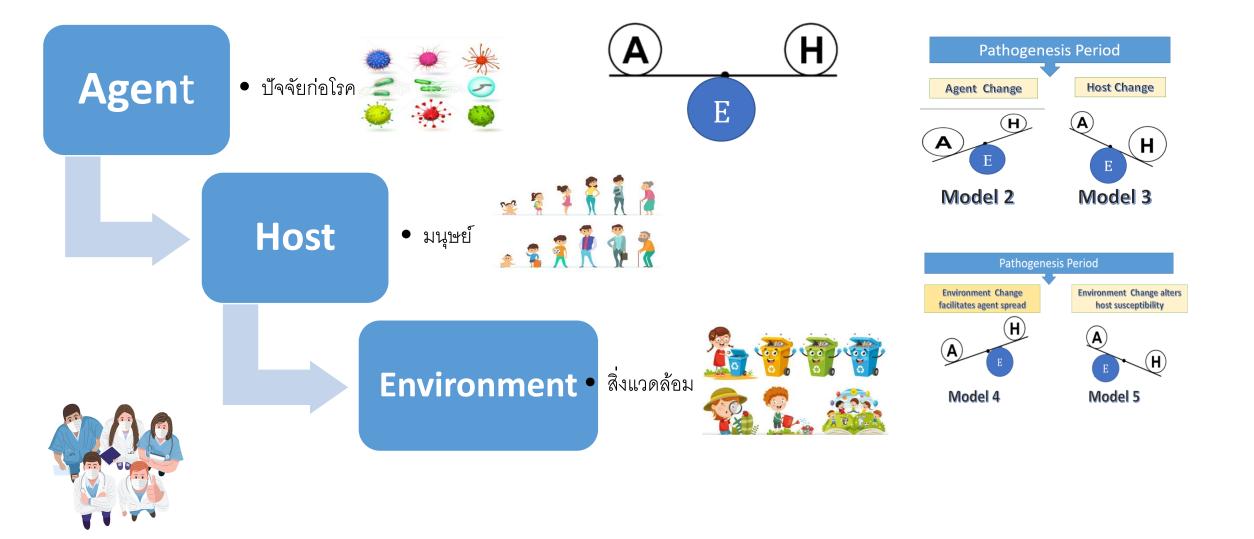




Causation of disease: any disease is not caused by only one factor.



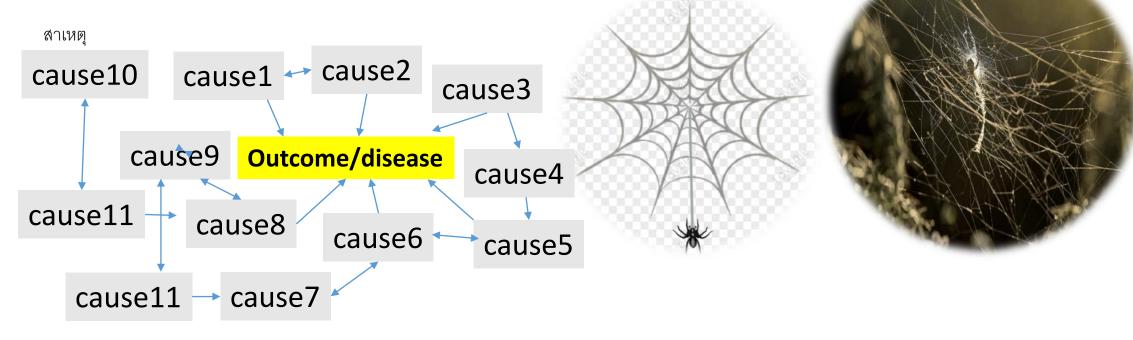
Epidemiologic triad (ปัจจัยสามทางวิทยาการระบาด) 🔤



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The concept of disease etiology is a "web of causation" which includes all the predisposing factors of any type and their complex relations with each other and with the disease.



Web of causation of disease



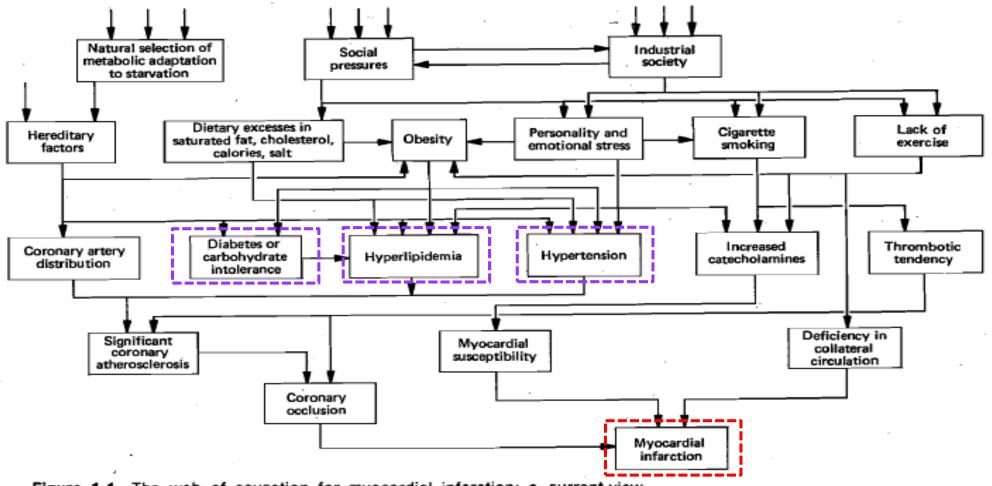


Figure 1-1 The web of causation for myocardial infarction: a current view.

Source: Friedman, D. G. (1974). Primer of Epidemiology. USA: A Blakiston publication. P.4.



The occurrence of non-**communicable diseases** OR **chronic diseases**



Non-communicable disease/Chronic disease



Definition of non-communicable disease

medical condition

NCD

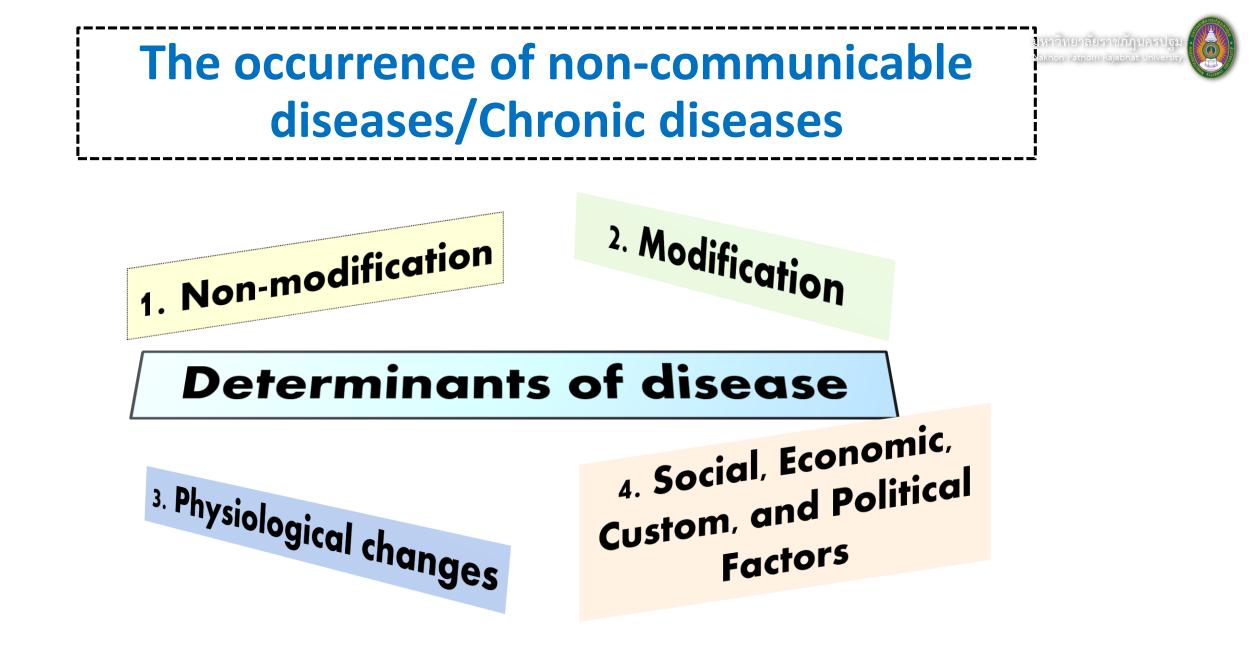
cannot be passed from person to person

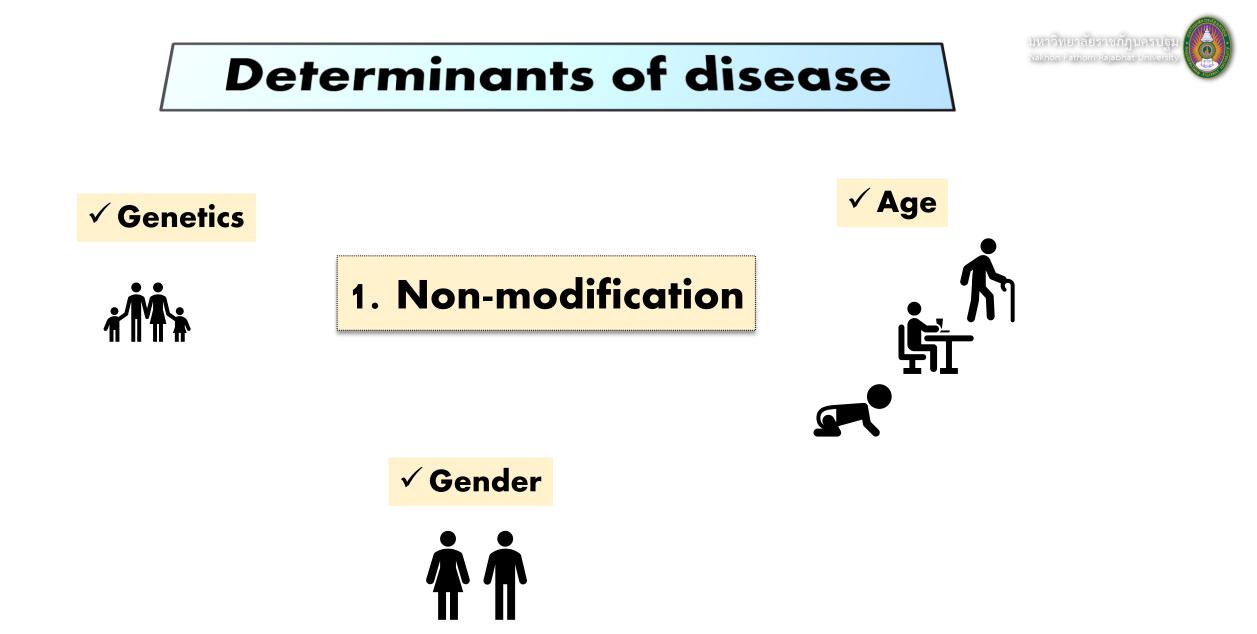
chronic diseases

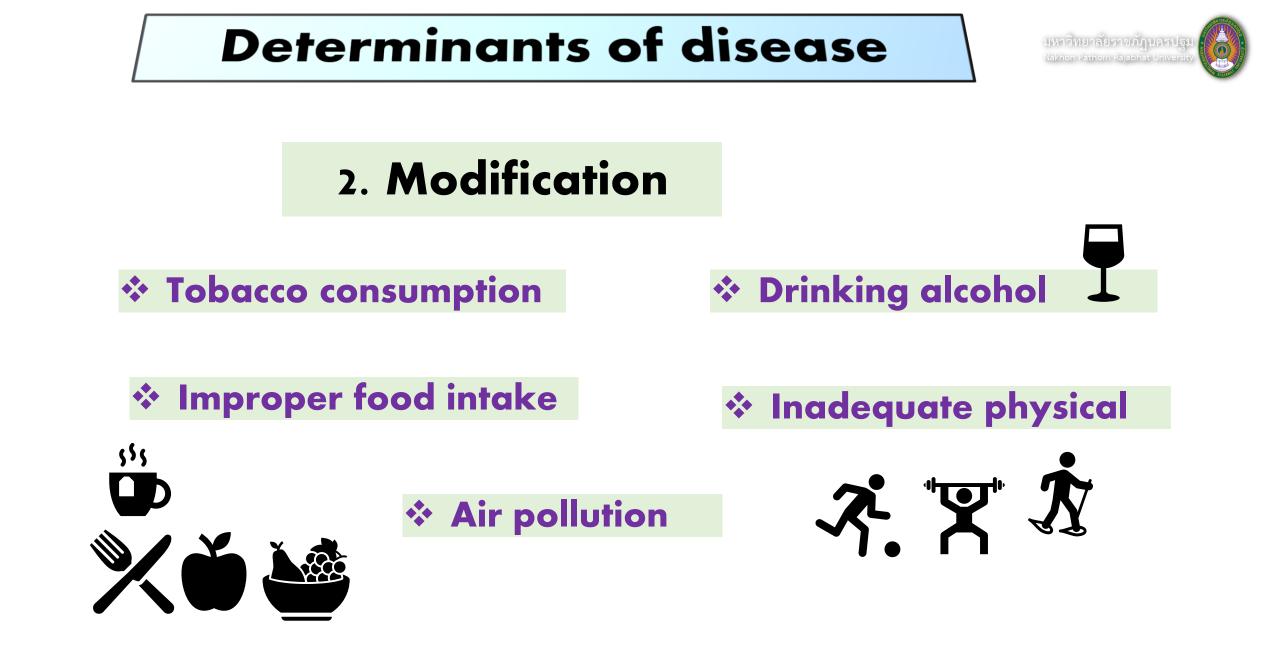
long duration and slow progression

- for example
- Cardiovascular diseases (like heart attacks and stroke),
- > Cancer,
- Chronic respiratory diseases (such as chronic obstructed pulmonary disease and asthma) and
- > Diabetes
- > Hypertension

> etc









3. Physiological changes

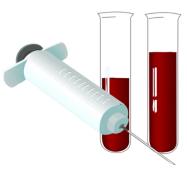
Hyperlipidemia

High blood pressure

High blood sugar

Overweight / Obesity







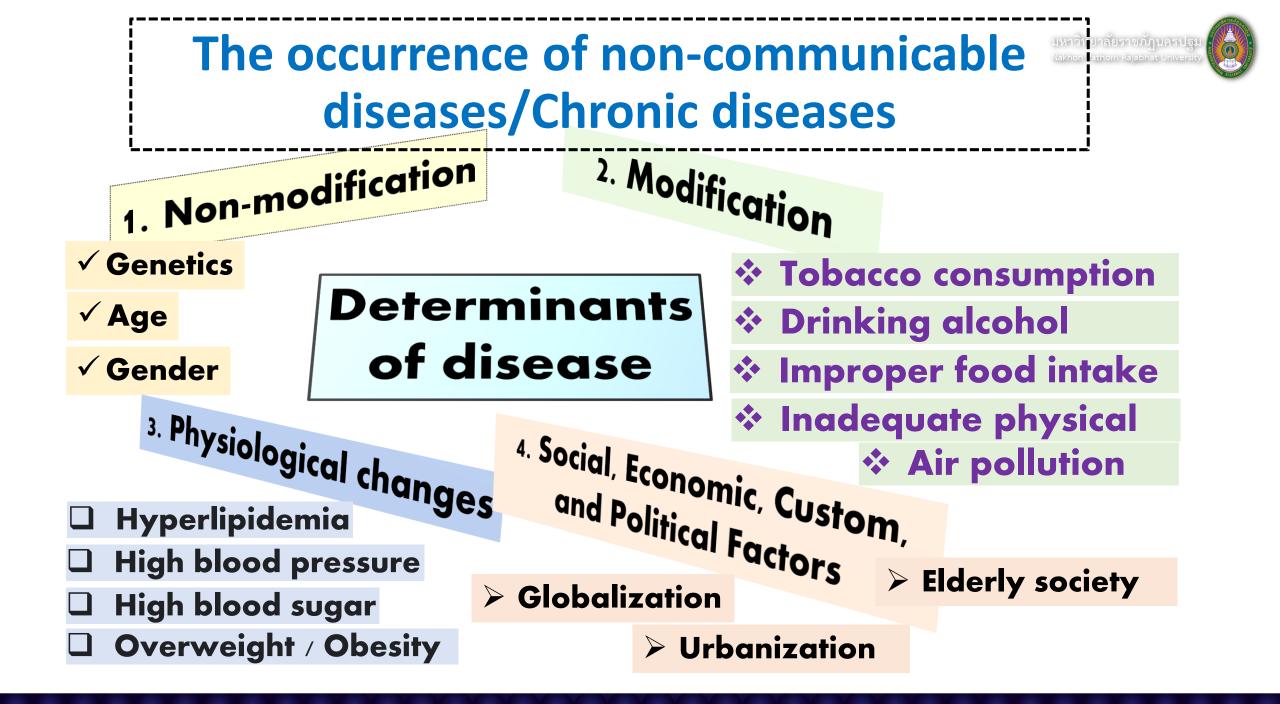
Determinants of disease

4. Social, Economic, Custom, and Political Factors

Globalization

> Urbanization

Elderly society





Risk Factors of Disease: BEINGS Model

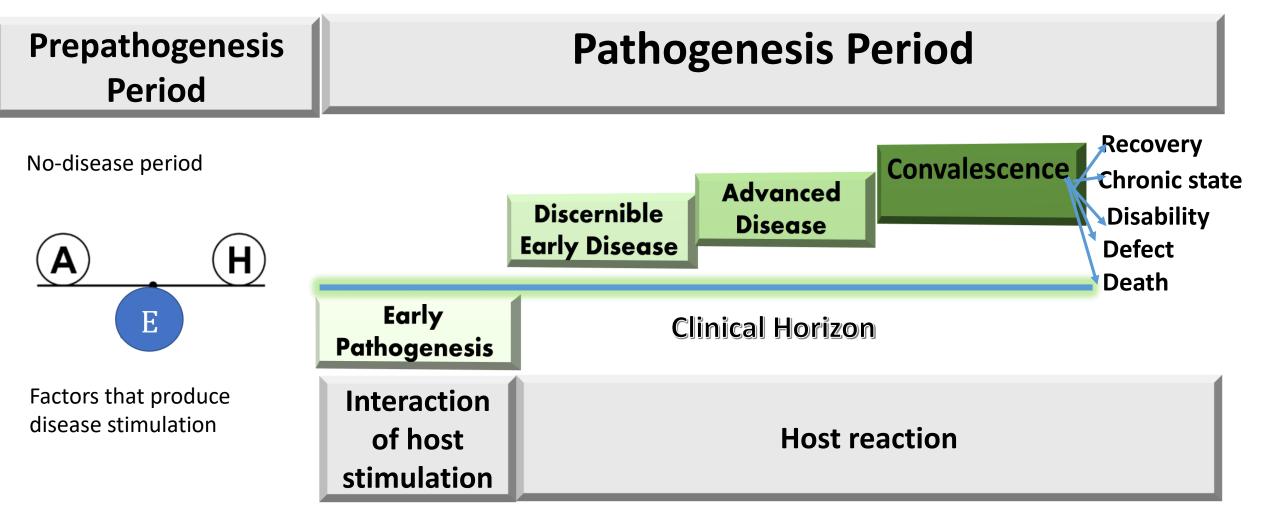
The

acronym **BEINGS** can serve as a mnemonic device for the major categories of risk factors for disease

"B"—BIOLOGIC AND BEHAVIORAL FACTORS "E"—ENVIRONMENTAL FACTORS \succ "I"—IMMUNOLOGIC FACTORS such as chemotherapy of cancer and the long-term use of corticosteroids produce immunodeficiency ➤"N"—NUTRITIONAL FACTORS ➤"G"—GENETIC FACTORS ➤"S"—SERVICES, SOCIAL FACTORS, AND SPIRITUAL **FACTORS**

From: Joann Elmore, Dorothea Wild, Heidi Nelson, David Katz. (2020). *Jekel's Epidemiology, Biostatistics, Preventive Medicine, and Public Health*. 5th Edition. Philadelphia: Saunders, p5-7.





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Source: Department of Epidemiology, Faculty of Public Health, Mahidol University, (2012). Learning Module PHEP

602 Principles of Epidemiology. Volume 1, p2-8.



Summary

Web of causation of disease



The occurrence of non-communicable diseases/ chronic diseases







Thank You for Your Attention

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