

# Health Ecosystem: The role of Public Health Practitioners

Taste Lecture for Secondary School Students 23 March 2019

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## What is Public Health 何謂公共衞生?

 "The science and art of preventing diseases, prolonging life and promoting health through the organized efforts of society."

「透過**社會各界的力量**,以**預防疾病、延長壽命和促進健康**的一門科學 與藝術。」

by Sir Donald Acheson (United Kingdom)

 "What we as a society do collectively to assure the conditions in which people can be healthy"

「社會大眾為確保享有活得健康的條件所作的共同努力」

by Institute of Medicine







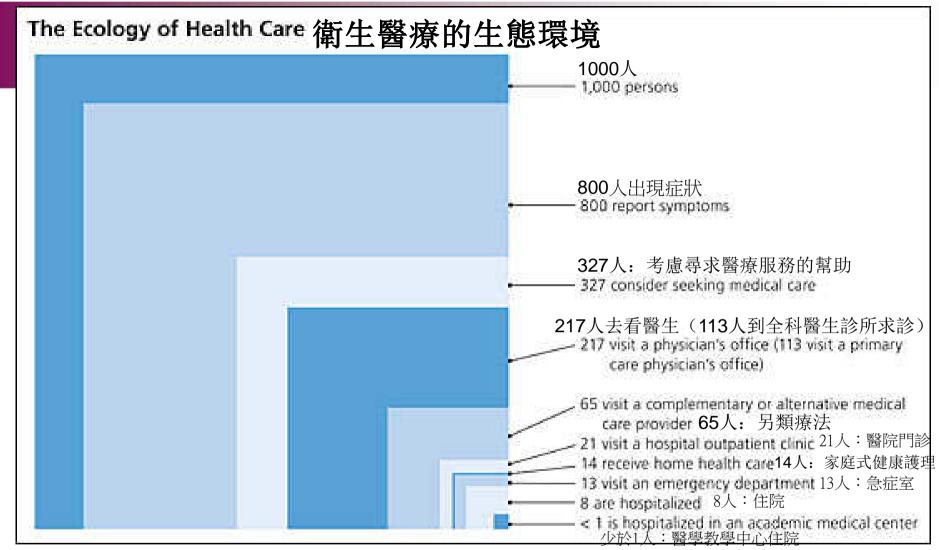












The Ecology of health care

Note: The group in each box is not necessarily a subset of the preceding box. Some persons may be counted in more than one box.

Source: Green LA, Fryer GE Jr, Yawn BP, Lanier D, Dovey Sm. The ecology of medical care revisited. N Engl J med 2001;344:2022.

# Health Care Reform initiatives over last 3 decades

- Mid 80s Scott Report → Establishment of Hospital Authority
- 1988 Primary Working Party Report → Tender for establishing first District Health Centre in 2018
- 1993Towards Better Health: Rainbow Report (no body should be denied of adequate treatment because of lack of means)
- 1997-98 Harvard Report- current health system ought to be reformed (competitive prepaid integrative healthcare system with hospital or GP-based integrated healthcare system with money following patient)
- 2000 Lifelong Investment in Health: Revamp fee structure, Health Protection Account
- 2004- Report on Health Care Financing and Feasibility of a Medical Saving Scheme
- 2008: "Your Health, Your Life" (enhance primary care, PPP,.. 6 proposals of reforming health financing including Voluntary Private Insurance scheme
- 2014: Consultation paper on Voluntary Insurance Scheme



#### 香港家書:自願醫保無助解決公營醫療壓力10-12-2016

- 愛因斯坦曾說:「如果我只有一小時解決影響生命的問題,我會用55分鐘來先 決定問題所在。」既然這計劃影響數百萬人,我們是否先要釐清問題所在?可 悲的是,政策制定者只認為這是關乎醫院床位分配的問題,這實在大錯特錯! 其實,最迫切的是將資源轉移至基層醫療;其次,就是因為現有公營醫療系統 的官僚架構而負擔過重及低效,影響尤深。
- 我們應該建立「地區醫療系統」,負責監管社區護理的工作。區內基層醫生負責診斷和治療,社區保健團隊在家庭環境負責支病人的長期護理。
- 醫療資源的分配必須考慮到地區人口的特點和健康狀況,「地區醫療系統」因了解地區人口而滿足到他們的需要,更不會遺忘弱勢的一群。所以,為何我們只側重冰山一角的醫院服務?

JC School of Public Health and Primary Care, CUHK

# The main driving force is a between the role of citizen, advancement o biomedical science and expansion of private health market.

主要推動力源於公民角色、醫療生物科技的進展及私營醫療市場的擴張 The main areas of health concerns in modern 21st Century are:
21世紀健康關注重點:

- Ageing population
- Increase of health care expenditure
- Flowing of health information, health products and health services
- Increasing debate on rights and responsibilities
- Importance of health as major goal in life and a key component as right of citizen
- 人口老化
- 醫療支出增加
- 健康資訊、健康產品及健康服務流動訊速
- 權利與責任爭議增加
- 公民權利以健康的重要性作為主要生活目標及關鍵條件

香港家書:改革醫療券

https://podcast.rthk.hk/podcast/item\_all.php?pid=42&lang=zh-CN

# Triple burden of Health醫療上的三重負擔



- 'Second wave' epidemic of cardiovascular disease is flowing through developing countries as result of changing lifestyles. 隨著發展中國家生活模式的轉變,湧現了「第二浪」心血管疾病。因心血管疾病和腦中風的死亡傷殘個案分別排行第一和第四。
- In 2020, Non-communicable disease (NCDs) will account for 80% of the global burden disease and even in developing countries, causing 7 out of 10 deaths (Boutayed A and Boutayed S) International J for Equity in Health 2005: 4 到 2020年,非傳染性疾病將佔全 球負擔疾病的80%,甚至在發展中國家,造成10人中有7人死亡
- Emerging new and old communicable diseases (SARS, Avian Flu, food poisoning) as result of ecological change, urbanization, globalization, population movement, changing living environment, changes of farming由於生態變化,城市化,全球化,人口流動,生活環境的變化,農業的變化,出現過去和現在傳染病(SARS,禽流感,食物中毒)
- Rapid economic growth and urbanization, knowledge based economy, advancement of technology, changes of family structure, loss of neighbourhood relationship, lack of time for communication and inter-personal interaction would put individual vulnerable to mental distress as resources for emotional support are depriving. 經濟快速增長和城市化,知識經濟,技術進步,家庭結構變化,鄰里關係喪失,缺乏交流和人際交往時間,情感支持資源被剝奪,會使個人容易受到精神壓抑。
- 5 of the top 10 contributors to years lived with disability.全球一半的殘疾與精神障礙有關

#### Cancer

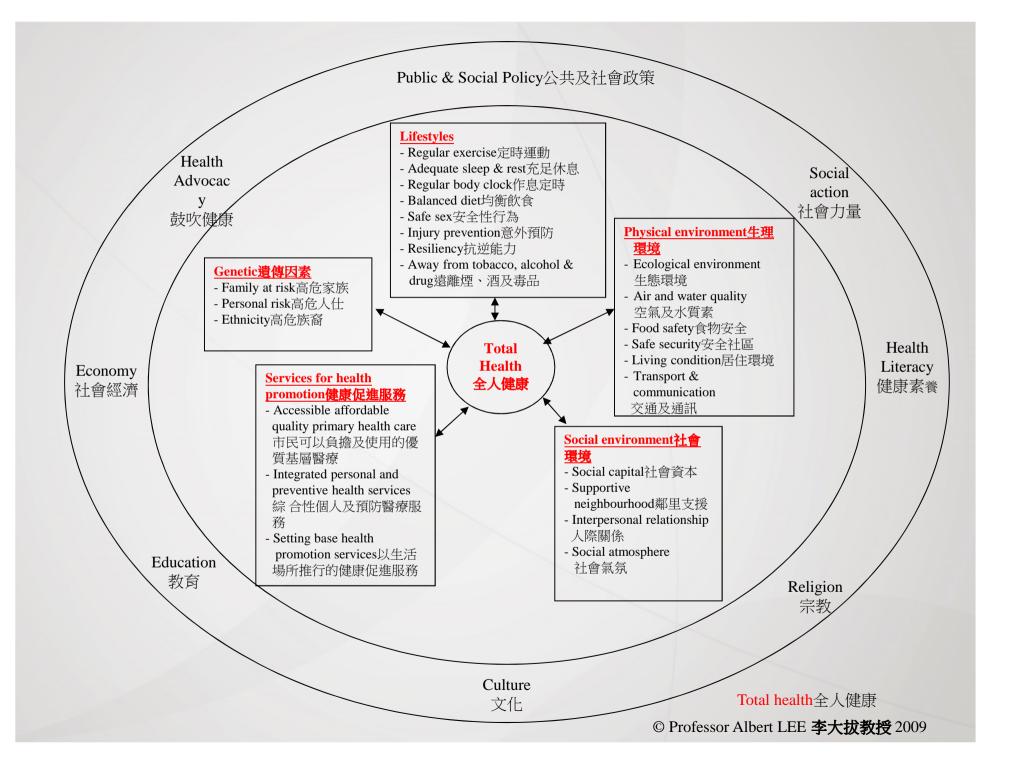
- In 2012, an estimated 8.2 million people died from cancer worldwide.
- More than half of cancer deaths worldwide occurred in countries at a low or medium level of the Human Development Index (HDI).
- Lung, liver, stomach, and bowel are the most common causes of cancer death worldwide, accounting for nearly half of all cancer deaths.
- Lung cancer causes the most cancer deaths worldwide. Almost a fifth of all cancer deaths worldwide are lung cancers.

Dietary factors account for over 30% of all cancers in Western Countries, and approximately up to 20% in developing countries. Diet is second to tobacco as preventable cause.

Number of new cases is estimated to increase from 10 million annually to 15 million by 2020.

在西方國家, 30%癌症病患者是由不良飲食習慣而導致發病。然而,發展中國家則約有20%癌症病患者是由不良飲食習慣而導致發病。改善飲食習慣是次於戒煙的防癌方法。

至2020年,估計癌症病患的新症將由每年1,000萬增至1,500萬。



## Primary Prevention第一線預防

- 1. Enhance community action and capacity to avoid exposing to health risks.強 化社區能力及行動遠離高危健康風險
- 2. Enhance community action and capacity to positive health.強化社區能力及 行動促進社區人仕正向健康
- 3. Well-trained health promotion practitioners to empower and monitor health behaviours of citizens and actions of community.專業健康促進人員去監察市民健康行為及社區促進健康行動

# Secondary Prevention第二線預防

- 1. Screening 普查及早發現早期病況如 Pap Smear柏氏子宮頸檢查
- 2. Identify those with chronic illnesses at risk of hospital admission.監察慢性 病人及早發現有潛伏程度至入院的危機

# Tertiary Prevention第三線預防

Rehabilitation – To prevent further deterioration of condition and restore usual functional capacity as far as possible.

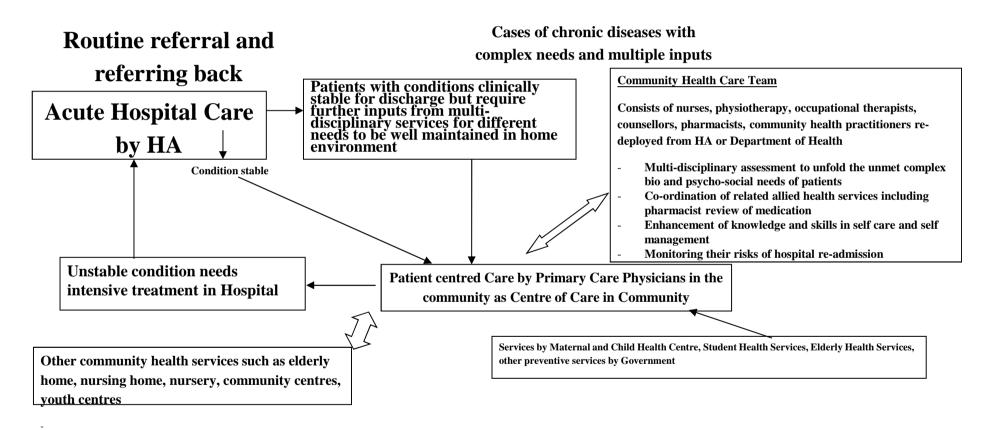
康復-防止病情進一步惡化,並儘可能恢復正常的功能。

# Quandary Prevention第四線預防

Prevention of side effects of medical intervention.預防醫療過程中的副作用

#### District Health Committee to monitor the operation of Local Primary Health Care Team

http://www.cuhk.edu.hk/med/hep/hchsc/District%20Health%20System.pdf



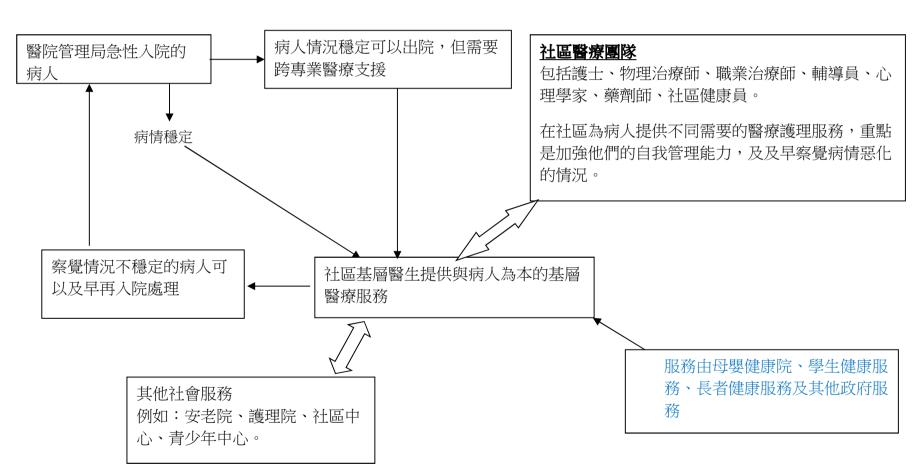
Simplified version from Figure 6. Model of Local Primary Health Care System. Lee A. Family Medicine and Community Health Care. In: Fong K and Tong KW (Eds). *Community Care in Hong Kong: Current Practices, Practice-Research Studies, and Future Directions*. Hong Kong: City University Press, 2014.

#### 地區醫療系統提供基層醫療護理服務

http://www.cuhk.edu.hk/med/hep/hchsc/District%20Health%20System.pdf

#### 恆常轉介及覆診

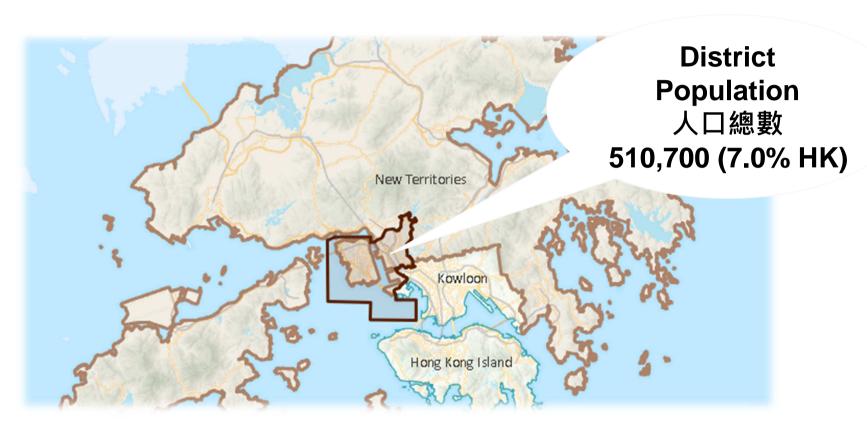
### 較複雜的健康需求及需要多重護理 的長期病患者



**Simplified version from Figure 6. Model of Local Primary Health Care System.** Lee A. Family Medicine and Community Health Care. In: Fong K and Tong KW (Eds). *Community Care in Hong Kong: Current Practices, Practice-Research Studies, and Future Directions.* Hong Kong: City University Press, 2014.

# 葵青區 Kwai Tsing District

First District Health Centre (Oct 2019)



Citation: Lee A and Wei R. District-level Primary Care in Hong Kong: "Current Practice and Future Development in Kwai Tsing. Community Care Conference organised by Cartias Institute of Higher Education and Open University, 2018, Hong Kong

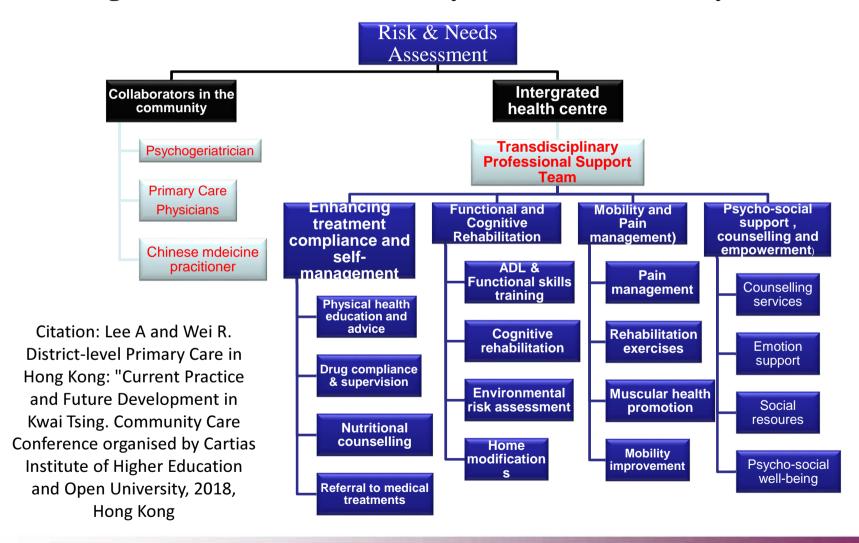


# The Signature Project

2013 Policy Address: 1 hundred million dollars for every district

Since 2015 a series of health services were implemented for the benefits of Kwai Tsing citizens

#### **Building an Accountable Community for Health and Safety in Kwai Tsing**



#### 1 Core official centre

主中心

Office 辦公室

Resources centre

資訊源中心

Healthcare &

rehabilitation

facilities 醫療護理

復康設備





Private practitioners 私家醫生 TCM practitioners 中醫

Nurses護士

Allied health professionals 專業醫療人員 (e.g OT 職業治療師、OPT 視光師、SW 社工)

#### 5 official satellites

附屬中心

**Kwai Chung (west)** 

葵涌(西)

**Kwai Chung** 

(Northeast)

葵涌 (東北)

**Kwai Chung** 

(Central & South)

葵涌 (中南)

**Tsing Yi** 

(Northeast

青衣(東北)

Tsing Yi

(Southwest)

青衣(西南)

Citation: Lee A and Wei R. Districtlevel Primary Care in Hong Kong: "Current Practice and Future Development in Kwai Tsing. Community Care Conference organised by Cartias Institute of Higher Education and Open University, 2018, Hong Kong



Q&A 問答環節