Our partner for better health

Primary Care Development in Hong Kong:
Strategy Document

December 2010
## Content

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive Summary</td>
<td>i</td>
</tr>
<tr>
<td>Preamble</td>
<td>1</td>
</tr>
<tr>
<td>Chapter 1 Background</td>
<td>3</td>
</tr>
<tr>
<td>Chapter 2 Primary Care in Hong Kong</td>
<td>4</td>
</tr>
<tr>
<td>Chapter 3 Primary Care Development: Progress To-date</td>
<td>9</td>
</tr>
<tr>
<td>Chapter 4 Developing Primary Care: Key Strategies</td>
<td>14</td>
</tr>
<tr>
<td>Chapter 5 Work Progress of the Working Group on Primary Care and its</td>
<td>25</td>
</tr>
<tr>
<td>Task Forces</td>
<td></td>
</tr>
<tr>
<td>Chapter 6 Pilot Projects and Primary Care-related Development Already</td>
<td>37</td>
</tr>
<tr>
<td>Underway</td>
<td></td>
</tr>
<tr>
<td>Chapter 7 The Need for Further Development</td>
<td>47</td>
</tr>
<tr>
<td>Chapter 8 Setting up a Primary Care Office</td>
<td>55</td>
</tr>
<tr>
<td>Chapter 9 Conclusion</td>
<td>58</td>
</tr>
<tr>
<td>Annex A Feedback from the first stage public consultation on healthcare</td>
<td>59</td>
</tr>
<tr>
<td>reform on initiatives to reform primary care and service delivery</td>
<td></td>
</tr>
<tr>
<td>in Hong Kong</td>
<td></td>
</tr>
<tr>
<td>Annex B Health and Medical Development Advisory Committee Working</td>
<td>62</td>
</tr>
<tr>
<td>Group on Primary Care</td>
<td></td>
</tr>
<tr>
<td>Reference</td>
<td>80</td>
</tr>
</tbody>
</table>
1. Primary care plays a pivotal role in a healthcare system. Its importance, as highlighted by the World Health Organization and other international health authorities, is widely recognized internationally. Evidence abounds that a good primary care system, which entails the provision of accessible first contact care that is comprehensive, continuing, co-ordinated and person-centred in the context of family and community, is effective in improving health from a population point of view and promoting better use of healthcare resources.

2. Healthcare services in Hong Kong are of high standards and delivered with efficiency. However, in common with many other countries, our healthcare system is facing major challenges brought about, among others, by a rapidly aging population. There will be increasing number of chronic disease patients as our population ages. We will be found wanting if we continue to rely on a primary care system that focuses mainly on providing treatment for acute, episodic diseases and ailments. A more effective response is called for. We have to develop more proactive, continuing, integrated, and comprehensive services at the primary care level with better co-ordination among different healthcare providers. We also have to provide person-centred care in the context of family and community.

3. As the first contact point of the whole healthcare system, primary care covers a wide range of services, including health promotion, prevention of acute and chronic diseases, health risk assessment and disease identification, treatment and care for acute and chronic diseases, self-management support, and supportive and palliative care for end-stage diseases or disabilities. To deliver such a comprehensive range of services, we need to adopt a multi-disciplinary approach involving joint input from an appropriate combination of healthcare professionals, such as doctors, dentists, Chinese medicine practitioners, nurses, allied health professionals and other healthcare providers in the community.

4. Throughout the years, the Government has taken steps to improve primary care in the public system through the Department of Health (DH) and the Hospital Authority (HA). In 2005, the **Health and Medical Development Executive Summary**
Advisory Committee (HMDAC) reviewed and made recommendations on the service delivery model for the healthcare system, including the primary care system. Building on these recommendations, the Government put forward a comprehensive package of proposals for reforming the healthcare system in the Healthcare Reform Consultation Document “Your Health, Your Life” which was published in March 2008. One of the service reform proposals is to enhance primary care especially the provision of continuing, preventive, comprehensive and holistic healthcare services. Specifically, the following initiatives were proposed –

(a) developing basic models for primary care services;
(b) establishing a family doctor register;
(c) improving public primary care; and
(d) strengthening public health functions through public-private partnership.

5. In recognition of the broad support for the reform proposals received during the first stage public consultation on healthcare reform conducted between March and June 2008, the Chief Executive announced in the 2008-09 Policy Address a series of policy initiatives to enhance primary care. The Government has been increasing the amount of resources spent on primary care. Additional resources have also been earmarked for the period 2009-10 to 2012-13 to support primary care development. The Government will continue to provide financial support to the long-term development of primary care, where necessary, having regard to the overall progress of healthcare reform including supplementary healthcare financing arrangements and the resources available for health care.

6. The Working Group on Primary Care (WGPC), chaired by the Secretary for Food and Health, was reconvened in October 2008 to advise on strategic directions for the development of primary care in Hong Kong. Three Task Forces have been formed under WGPC to recommend strategies to strengthen primary care in three areas, including primary care conceptual models and reference frameworks, Primary Care Directory, and primary care service delivery models. WGPC and its Task Forces comprise representatives from the public and private
healthcare sectors, academia, patient groups, health administrators, and other stakeholders.

7. Based upon the advice of WGPC and taking reference from international experience, our major strategies to strengthen primary care in Hong Kong should target at improving the attributes of a good primary care system, supported by a well-equipped primary care workforce and built-in infrastructure. The major strategies to improve primary care in Hong Kong include –

(a) **Develop comprehensive care by multi-disciplinary teams:** It is important for an appropriate combination of healthcare professionals to work as a team to provide comprehensive and whole-person care in order to meet the multi-faceted needs of chronic disease patients and the elderly.

(b) **Improve continuity of care for individuals:** Continuity of care over the course of a lifetime enhances effectiveness in disease prevention and management, improves access to care, promotes patient safety and facilitates efficient use of resources.

(c) **Improve co-ordination of care among healthcare professionals across different sectors:** Improving co-ordination of care enhances continuity of care, reduces duplications and helps patients receive optimal care based on their needs.

(d) **Strengthen preventive approach to tackle major disease burden:** Chronic diseases are taking up more and more of the capacity of our healthcare system. They are also the major causes of death. To better tackle chronic diseases, we need to adopt a more preventive approach. This involves a variety of strategies, including the promotion of healthy behaviours to reduce the risk of falling chronically ill, detection of disease at an early stage, and better disease management to prevent complications and deterioration.

(e) **Enhance inter-sectoral collaboration to improve the availability of quality care, especially care for chronic disease patients:** More collaboration and co-ordination between the public and private healthcare sectors are crucial for improving the availability of comprehensive and continuing care, especially that for people with chronic health problems.
(f) **Emphasise person-centred care and patient empowerment:** Provision of person-centred care and patient empowerment improves disease monitoring, prevents complications, and results in better treatment compliance and quality of care.

(g) **Support professional development and quality improvement:** A primary care workforce with suitable professional skill-mix is needed for effective delivery of the whole range of primary care functions. Re-orientation towards person-centred care and collaboration among healthcare providers across different sectors should be emphasised.

(h) **Strengthen organisational and infrastructural support for the changes:** Long-term organisational support is required to foster continuous collaboration across different sectors in formulating and implementing recommendations on primary care development. The use of information technology, including sharing of electronic health records, provides essential infrastructural support for the reform process.

8. WGPC and its Task Forces formulated a set of initial recommendations on enhancing primary care in Hong Kong in 2009. The progress to-date of the three major areas of work is summarised below –

(a) On development of primary care conceptual models and reference frameworks, we are finalising the **conceptual models and clinical protocols in the form of reference frameworks** for hypertension and diabetes mellitus for use as common reference by healthcare professionals.

(b) We have started the development of a **Primary Care Directory** in phases with a view to promoting enhanced primary care through the family doctor concept and a multi-disciplinary approach. It is planned to be an easily accessible electronic database containing practice-based information of primary care providers in the community. The first edition of the Doctor and Dentist Sub-directories will be launched in 2010-11.

(c) We are devising feasible service models to deliver enhanced primary care services in the community through appropriate **pilot projects**. These include a series of pilot projects which aim at improving chronic disease management
and trying out different models for enhancing primary care both within the public healthcare system and through public-private partnership. We are exploring various pilot projects on community health centres (CHC) and networks based on different CHC-type models in consultation with the relevant stakeholders with a view to providing more comprehensive and co-ordinated primary care services through cross-sectoral collaboration.

9. The Government is working with the dental professionals on initiatives to enhance primary dental care. Additional resources have been earmarked mainly to support the implementation of pilot projects to improve dental services for the elderly in need and to strengthen oral health promotion. The Government also plans to improve mental health services through strengthening support for mental patients in the community and enhancing assessment and treatment services in the primary care setting for patients with common mental disorders.

10. The provision of comprehensive, continuing and co-ordinated healthcare services requires strengthened infrastructural support. To this end, the Government has taken a leading role in developing a territory-wide patient-oriented electronic health record (eHR) sharing system. Emphasis has been placed on strengthening collaboration and sharing of information among different sectors of healthcare providers. Development of the eHR sharing system can also help generate epidemiological information which is important for planning of primary care services.

11. The overall strategy for developing primary care in Hong Kong emphasises a step-by-step and consensus building approach to reforming the primary care system, and a virtuous cycle of pilot-evaluation-adjustment for the continuous development and implementation of specific initiatives and pilot projects. In this connection, resources have been earmarked to strengthen research on primary care to facilitate the formulation of evidence-based policies and strategies, evaluate the effectiveness of different pilot projects, and assess the overall effectiveness of the primary care system in improving health
of the population. Findings of research and results of evaluation will guide the further development of strategies and action plans to build up the reform process.

12. We will continue to explore the development of new service delivery models and re-engineering of patient care pathways with a view to improving the provision of evidence-based quality care, strengthening cross-sectoral collaboration and promoting more efficient use of resources. There are areas which have to be further examined, such as development of nurses and allied health professionals as case managers, establishment of CHCs and other models of integrated care, development of primary care workforce, and potential improvement in long-term infrastructural support for primary care development.

13. The long-term development of primary care is an on-going process that entails multi-partite collaboration and well co-ordinated strategies. A Primary Care Office (PCO), which comprises staff with relevant expertise from the Food and Health Bureau, DH and HA, was set up in DH in September 2010 to support and co-ordinate the development of primary care in Hong Kong, particularly the implementation and co-ordination of actions across different healthcare sectors.

14. In order to promote the on-going and evolving strategy of primary care development to the wider community, the Government will embark on a two-year primary care campaign targeting both healthcare professionals and the public in 2010-11. Based on the experience learnt and evaluation of the pilot projects, a cycle of four to five years will be adopted for a holistic review of the overall primary care development strategy. The Government will continue to take responsibility for co-ordinating and supporting the reform process with a view to developing a better healthcare system and improving the health of our society.
Primary care is the first point of contact for individuals and families in a continuing healthcare process. A good primary care system provides the public with access to better care which is comprehensive, holistic, co-ordinated, and as close as possible to where people live and work. Providing preventive care as well as quality management of diseases to everyone is important for promoting health of the population.\footnote{1,2,3}

Having consulted the public in the first stage public consultation on healthcare reform on a comprehensive package of healthcare reform proposals including enhancing primary care, the Government is dedicated to embarking on strengthening primary care as the cornerstone of our reforms.

This document –

(1) highlights why good primary care will benefit us all, especially how it will help us address the major challenges of preventing and providing on-going treatment for the modern day epidemic of chronic diseases; and

(2) sets out the major strategies and pathways of action which will help us deliver high quality primary care in Hong Kong.

Our Vision of the Future Primary Care System

Our vision is to develop a primary care system in which –

(1) every citizen has access to a primary care doctor as their long-term health partner;

(2) there is better availability of comprehensive, continuing and co-ordinated care;

---

\footnote{a. This document will focus more on the enhancement of the provision of primary (medical) care which mainly refers to the provision of first contact healthcare services by doctors and other healthcare professionals.}

\footnote{b. The Food and Health Bureau published the Healthcare Reform Consultation Document “Your Health, Your Life” in March 2008 and conducted the first stage public consultation on a comprehensive package of healthcare reform proposals including enhancing primary care, promoting public-private partnership in healthcare, developing electronic health record sharing system, strengthening public healthcare safety net, and introducing supplementary healthcare financing.}
Preamble

(3) there is emphasis on preventing diseases and their deterioration by care provided by multi-disciplinary teams;
(4) every person is supported in their efforts to improve and take care of their own health; and
(5) care provided is of high quality and evidence-based, and is provided by well trained professionals for patients in the context of family and community.
Chapter 1. Background

Introduction

1.1 The World Health Organization (WHO) made a visionary declaration that primary care was the key to “Health for All” in Alma Ata more than 30 years ago\(^4\). This set the scene for international efforts to promote primary care and formally acknowledged the pivotal role of a strong primary care system. Many countries striving to develop or strengthen their primary care systems recognise the key role of primary care as the foundation of effective healthcare systems. The need to enhance primary care was once again reaffirmed in the World Health Report 2008: “Primary Health Care: Now More Than Ever”, and was further stressed by the 2009 World Health Assembly’s resolution on primary care policies\(^1,5\).

1.2 The key attributes of good primary care entail the **provision of accessible first contact care that is comprehensive, continuing, co-ordinated and person-centred in the context of family and community**\(^2,4,6,7\). Primary care contributes to the health of the population and covers a wide range of services which includes the delivery and provision of \(^4,8,9,10\) -

- health promotion;
- prevention of acute and chronic diseases;
- health risk assessment and disease identification;
- treatment and care for acute and chronic diseases;
- self-management support; and
- rehabilitative, supportive and palliative care for disability or end-stage diseases.
2.1 Hong Kong people have been enjoying healthcare services which are of high standards and relatively efficient, with a total health expenditure accounting for around 5.0% of GDP\textsuperscript{11}. Our life expectancies rank among the longest in the world, and maternal and infant death rates among the lowest. Our highly subsidised public healthcare sector offers treatment and protection to every citizen, whereas the private sector also provides a wide range of services, including primary care services.

2.2 Around 70% of clinic consultations are made with primary care practitioners in the private sector, mostly paid out-of-pocket by those who can afford the fees\textsuperscript{11,12}. The public system provides primary care through out-patient services run by the Hospital Authority (HA) targeting low-income groups, the under-privileged, those who are chronically ill and poorer elderly patients\textsuperscript{13,14}. The Department of Health (DH) also provides primary care through its preventive public health services, health promotional programmes and other disease prevention and management services.

**Changes and Challenges to the Existing System**

2.3 Despite our accomplishments, in common with many other countries, our healthcare system is facing major challenges\textsuperscript{1,15,16,17,18}.

2.4 As the population ages, its health needs change and the services needed also change. The increasing burden of chronic diseases, higher expectations from increasingly health literate public and patients, and scientific developments offering new and expensive treatments all put healthcare expenditure in our existing system to the test.

(a) **Changes in demographic trends**

- Our population continues to grow and become older. The population is projected to expand from 7.00 million in 2009 to 8.89 million in 2039. The proportion of those aged 65 years or above will double from 12.7% (0.89 million) in 2009 to 28.0% (2.49 million) in 2039\textsuperscript{19,20}. 

---

Primary Care Development in Hong Kong: Strategy Document
• The elderly population has much greater healthcare needs. For instance, a person aged 65 years or above uses on average six times more in-patient care (in terms of bed-days) than a person aged below 65 years.\(^\text{21}\)

• The healthcare needs of a rapidly growing number of older people will present challenges in managing chronic diseases over longer periods as well as keeping them healthy and active in the community whilst providing high quality end-of-life care.\(^\text{22}\)

(b) Changes in disease pattern

• The epidemic of chronic non-communicable diseases is sweeping the world.\(^\text{23,24}\) Locally, about two-thirds of deaths are attributable to chronic diseases such as hypertension, heart disease, diabetes mellitus and chronic respiratory problems.\(^\text{12,25}\) Such diseases are directly related to less healthy lifestyles including obesity, lack of exercise, eating high fat foods and smoking.\(^\text{23,24}\) Chronic diseases and the associated complications are amongst the major causes for hospitalisation and long-term care.\(^\text{24,26}\)

(c) Higher public and consumer expectations

• Increased access to health information, including the improved use of information technology, promotes health literacy as well as better understanding of the nature and management of disease among patients and the public.\(^\text{1,15}\) This in turn may lead to a rise in expectations on the availability of more advanced treatment and demand for choices of a wider range of services.

(d) Inflating healthcare expenditure

• Ageing population, growing burden of chronic diseases and associated disabilities, advancement in medical technologies and inflation in healthcare prices all lead to pressure to expand the range of healthcare services. This trend is evident both locally and in most other advanced economies.\(^\text{1,11,27}\)
The Need to Enhance Primary Care

2.5 The challenges we are facing, especially the growing number of elderly people and people with chronic diseases and functional needs, create an urgent need to build up more proactive, integrated and comprehensive services at community level to support disease prevention and management, maintenance of functional status and improvement in quality of life. The traditional focus of our primary care system has been on providing treatment for acute, episodic diseases and ailments without sufficient emphasis on prevention. This can no longer meet the changing needs of the population. Over-reliance on hospital and specialist care for management of common chronic diseases results in long waiting time for public specialist referrals and overloading in public hospitals.

2.6 To strengthen the prevention and management of chronic diseases and support care of the elderly, we need a stronger primary care system which involves re-orientation towards the provision of more comprehensive community-based care emphasising continuity and collaboration among healthcare professionals across different sectors.

2.7 Evidence demonstrates that health systems that rely more on primary care in comparison with systems based on specialist care produce better population health outcomes, reduce the rate of avoidable mortality, improve continuity and access to healthcare, result in higher patient satisfaction, and reduce health-related disparities at a lower overall cost for healthcare. Studies comparing services that could be delivered as either primary care or specialist care services show that services provided through the primary care system are more cost-effective. International comparison also shows that countries with more primary care doctors acting as co-ordinators for referral to specialist and hospital care are more likely to have better health outcomes, lower health costs and greater patient satisfaction.
• Many countries reforming their health systems are doing so by strengthening community-based primary care, focusing on prevention and quality improvement in disease management\(^1,36,37,38\).

### Multi-disciplinary Primary Care Providers

2.8 The majority of the first contact primary care services in Hong Kong are provided by western medicine trained doctors including general practitioners and other specialists\(^12\). A significant proportion of the primary care services are provided by other providers including Chinese medicine practitioners and dentists. Other primary care professionals also include nurses, chiropractors, physiotherapists, occupational therapists, clinical psychologists, dietitians, pharmacists, optometrists, speech therapists, podiatrists, and other healthcare providers in the community. Evidence shows that quality care is best provided by teams of health workers with different skills working closely with the community and hospitals\(^31,35,39\). This enables the right skills to be provided to meet the needs of individual patients for more comprehensive, continuing and co-ordinated care.

---

**Box 1. What do patients and the public think about primary care and the need to change?**

Improving primary care is not a new idea in Hong Kong yet many Hong Kong people are not familiar with the principles of family medicine or the attributes of good primary care\(^40\). However, recent studies commissioned by the Government provide us with new perspectives and a better understanding of people’s beliefs about primary care\(^41,42,43,44\). The main findings are as follows –
Given sufficient explanation, the public were quite receptive to the idea of provision of good primary care and appreciated the principles of family medicine, including continuity of care, more comprehensive and preventive approach, and sharing of health records among providers.

Two-thirds of the respondents reported having a “regular primary care doctor” to whom one would first consult when needed; and one-third reported having a “regular family doctor” to whom one would consult for all kinds of health problems.

People with a family doctor considered it a good model but those without a family doctor considered it as a “luxury item” for those who could afford to pay.

Many patients suffering from chronic disease would prefer to be followed up in the public healthcare system, even if they had a regular private family doctor. Reasons include feeling secure about the fixed and lower cost of treatment, consideration about quality and continuity of care, standard of training of doctors, ease of access to specialists and supporting services available within the general out-patient clinic (GOPC) system.

Having a family doctor was associated with less use of accident and emergency services, receiving more preventive care and better patient enablement.

These studies also showed that doctors who had family medicine training were more involved in chronic disease care than those without, and having professional training in family medicine was associated with better process and outcome of care.
3.1 Detailed examination of the primary care system in Hong Kong and recommended strategies for enhancing and reforming primary care can be dated back to the Report of the Working Party on Primary Health Care titled “Health for All – The Way Ahead” issued in 1990\(^{45}\). The call for strengthening primary care was also included in the other healthcare reform consultation documents that followed\(^{16,17,46}\).

3.2 Since 1990, the Government has taken steps to improve primary care in the public system through DH and HA. Some examples are listed below –

(a) Community health promotion and disease prevention services for population sub-groups have been strengthened through services under DH –

- The Women Health Service was established in 1994 to provide centre-based service for promoting health of women aged 64 years or below.
- The Student Health Service was set up in 1995 to provide centre-based preventive and health promotion services to primary school and secondary school students. School-based health education programmes are also provided through outreach teams.
- The Elderly Health Service started service in 1998 to provide centre-based primary care services for the elderly, embracing a more preventive and multi-disciplinary approach. Its outreach teams also support elderly centres and elderly homes on disease prevention and health promotion.
- From 2000 to 2007, the Maternal and Child Health Centres, based on scientific evidence and best practices, have thoroughly overhauled their child health promotion and disease prevention programmes for children aged zero to five years and their families.

(b) Prevention and control of infectious diseases and chronic diseases have been strengthened through the establishment of the Centre for Health Protection under DH in 2004.

(c) DH has further strengthened health promotion in the community by the introduction of programmes that involve stronger inter-sectoral approaches. Supported by the Government, Healthy City Projects are in place in many districts to foster joint efforts to improve community engagement in health promotion.
(d) The management of GOPCs was transferred from DH to HA in 2003 to improve integration between primary and secondary levels of care in the public system. Professional training for family medicine specialists is strengthened and streamlined. A multi-disciplinary approach of care is adopted and chronic disease management and patient empowerment are enhanced.

(e) HA has expanded its Community Nursing Service (CNS) to provide more comprehensive care and patient support, especially for the elderly and patients with chronic health conditions.

(f) HA has been working closely with many non-governmental organisations (NGOs) to enhance care of the elderly and chronic disease patients living in the community, especially with the establishment of the Community Geriatric Assessment Teams and various community networks.

(g) Fourteen public Chinese medicine out-patient clinics that involve tripartite collaboration among HA, NGOs and local universities have been set up since 2003 to promote the development of evidence-based Chinese medicine and to provide training opportunities for local Chinese medicine degree programme graduates.

(h) Preventive and promotive oral healthcare services to the public are strengthened and improved through the School Dental Care Service (SDCS) and the Oral Health Education Unit (OHEU) of DH.

Recent progress

3.3 In 2005, the Health and Medical Development Advisory Committee (HMDAC) reviewed the service delivery model for the healthcare system, covering primary, secondary, tertiary and specialised services; elderly, long-term and rehabilitation care services; integration between the public and private sectors; and infrastructural support. In its discussion paper “Building a Healthy Tomorrow” issued in July 2005, HMDAC set out, inter alia, the vision and ways of improvement needed for building up a robust primary care system in Hong Kong. The discussion paper made a number of recommendations, including the following on primary care –
(a) promoting the family doctor concept which emphasises continuing, comprehensive and holistic care;
(b) putting greater emphasis on prevention of diseases through public education and through family doctors; and
(c) encouraging and facilitating medical professionals to collaborate with other professionals to provide co-ordinated services.

3.4 Building on the recommendations of HMDAC, the Government put forward a comprehensive package of interrelated proposals for reforming the healthcare system in the Healthcare Reform Consultation Document “Your Health, Your Life” issued in March 2008. Emphasis was placed on enhancing primary care especially the provision of continuing, preventive, comprehensive and holistic healthcare services. Initiatives were proposed to, among other things, –

(a) develop basic models for primary care services;
(b) establish a family doctor register;
(c) subsidise individuals for preventive care;
(d) improve public primary care; and
(e) strengthen public health functions.

3.5 Many constructive views from a wide range of respondents were received and the responses confirmed a broad-based support for reforming the existing healthcare system. The principles of good primary care as stipulated in “Your Health, Your Life” received wide and positive feedback from both the public and stakeholders in the healthcare sector (Please refer to Annex A for details).

3.6 In recognition of the broad support for the reform proposals, the Chief Executive announced in the 2008-09 Policy Address a series of policy initiatives to enhance primary care, including strengthening support for chronic disease patients at primary care level. These initiatives were further reinforced in the 2009-10 Policy Agenda and 2010-11 Policy Agenda. To demonstrate the Government’s commitment in improving primary care, resources have been earmarked for the period 2009-10 to 2012-13 to back up these reform initiatives.
3.7 The Government has been increasing the amount of resources spent on primary care services in the past few years. An additional funding of more than $4.1 billion has been allocated and earmarked for primary care and public-private partnership in healthcare since 2008-09. The Government will continue to provide financial support to the long-term task of developing primary care, where necessary, having regard to the overall progress of healthcare reform including supplementary healthcare financing arrangements and the resources available for healthcare.

The Working Group on Primary Care and Task Forces

3.8 The Working Group on Primary Care (WGPC), chaired by the Secretary for Food and Health, was reconvened in October 2008 to advise on strategic directions for the development of primary care in Hong Kong. Three Task Forces have been formed under WGPC to recommend strategies to strengthen primary care in three areas, including developing primary care models and protocols to be adopted, developing a Primary Care Directory, and exploring ways to enhance primary care in Hong Kong through appropriate service delivery models (Box 2). WGPC and its Task Forces comprise representatives from the public and private healthcare sectors, academia, patient groups, health administrators, healthcare professionals of various disciplines and specialties, and other stakeholders (Details listed in Annex B).
Box 2. Three Task Forces established under WGPC and their main tasks –

- **Task Force on Conceptual Model and Preventive Protocols:**
  To define **WHAT** areas of services should be developed and what models could be used to enhance primary care to meet the needs of different patients and different age groups; and to develop protocols on management of major diseases and preventive care for different population groups.

- **Task Force on Primary Care Directory:**
  To develop a Primary Care Directory to provide primary care professionals’ background and practice information so that the public can choose providers **WHO** are suitable for them; to facilitate the co-ordination of multi-disciplinary teams to provide more comprehensive services; and to make use of the Directory as a platform to support professional development and quality care.

- **Task Force on Primary Care Delivery Models:**
  To study **HOW** to put the concepts, basic models and protocols into action, drawing input from a multi-disciplinary workforce; and to examine the principles governing the delivery of better primary care and the respective roles of different healthcare professionals in the public, private and non-profit making sectors for the provision of better co-ordinated care.

3.9 After more than one year of discussion as well as review of local and international experience and evidence, WGPC and its Task Forces have made a number of initial recommendations in 2009 on enhancing primary care in Hong Kong, which are described in Chapter 5.
4.1 Based upon the advice of WGPC and taking reference from international experience, the major strategies to strengthen primary care in Hong Kong should target at improvements to realise the attributes of a good primary care system, supported by a well-equipped primary care workforce and built-in infrastructure (Box 3).

Box 3. To improve primary care in Hong Kong, we need to –

1. Develop comprehensive care by multi-disciplinary teams
2. Improve continuity of care for individuals
3. Improve co-ordination of care among healthcare professionals across different sectors
4. Strengthen preventive approach to tackle major disease burden
5. Enhance inter-sectoral collaboration to improve the availability of quality care, especially care for chronic disease patients
6. Emphasise person-centred care and patient empowerment
7. Support professional development and quality improvement
8. Strengthen organisational and infrastructural support for the changes

(A) Comprehensive Care by Multi-disciplinary Teams

4.2 The provision of comprehensive and whole-person care is one of the core principles of family medicine and quality primary care. It is increasingly difficult for healthcare systems to remain responsive to the rapidly expanding needs of chronic disease patients and the elderly without establishing a continuum of comprehensive care provided by different healthcare professionals working closely with the patients\textsuperscript{49,50,51}. Studies show that collaborative care provided by multi-disciplinary teams of providers improves health outcomes and provides more appropriate support to patients in the community\textsuperscript{22,29,52,53}.

• Team of primary care providers – In Hong Kong, a wide range of healthcare providers are providing first contact healthcare. The majority of our population choose to consult western medicine doctors when health
problems arise. A significant proportion of primary care services are also directly provided by Chinese medicine practitioners and dentists\textsuperscript{12}. Other healthcare professionals like nurses, chiropractors, allied health professionals, pharmacists are also providing services on disease management and health promotion in the community.

- Teamwork is needed for the provision of more co-ordinated and comprehensive care, especially for the proactive management of chronic diseases. For instance, diabetic patients often require dietary advice, and patients with chronic respiratory diseases may need physiotherapists and occupational therapists to help them build up their respiratory function and adjust to daily activities.

- Community multi-disciplinary care is increasingly emphasised as appropriate and efficient. Nursing and allied health advice is of particular value in supporting patients with progressive or complex long-term conditions for a healthier and more independent life, reducing institutionalised care and improving quality of life\textsuperscript{54,55,56,57}.

- In the private sector, doctor consultations are more readily available than nursing care and allied health services. Most of our nursing and allied health professionals are providing services in the public system or NGOs, where multi-disciplinary care is more readily accessible than in the private sector. The challenge is to make such services accessible to those who need them, irrespective of where they seek primary care.

(B) Continuity of Care for Individuals

4.3 Continuity over the course of a lifetime is an indispensable pillar for quality healthcare. It enhances effectiveness, especially in chronic disease management, elderly care and maternal and child care. Better continuity of care improves access to care, reduces re-hospitalisation, consultations with specialists and emergency services, and enables better detection of adverse effects of medical interventions\textsuperscript{1,58}. 
4.4 Continuity of healthcare involves\textsuperscript{59} –

- **relationship continuity:** an on-going therapeutic relationship between a patient and one or more healthcare providers;
- **information continuity:** the use of information on past medical history and personal circumstances to make current care appropriate for each individual; and
- **management continuity:** a consistent and coherent approach to the management of a health condition that is responsive to a patient’s changing needs.

### Box 4. Continuity of healthcare: different perspectives

- **From the patient’s perspective,** continuity of care mainly entails the experience of a “\textit{continuous caring relationship}” with an identified healthcare professional\textsuperscript{60}. It helps healthcare providers gain their patients’ confidence. It also helps them become better co-ordinators of patients’ health services and more effective in providing holistic care and promoting health\textsuperscript{61}.

- **From the provider’s perspective,** the modern healthcare system is more likely to focus on the \textit{continuity in management}, and the delivery of “seamless service” through integration, co-ordination of care plan and sharing of information among providers. These are also important for improving health outcomes\textsuperscript{58,62}.

4.5 In Hong Kong, maintaining continuity of care is a major challenge because –

- The development of specialty services and multi-disciplinary care make it increasingly common for patients to be seen by an array of providers in a wide variety of settings.
- “Doctor-shopping” is a fairly common phenomenon\textsuperscript{18}. Despite this, a local survey showed that many people reported that they would consult a regular primary care doctor for most of their health problems\textsuperscript{41}. 

---

Primary Care Development in Hong Kong: Strategy Document
• Although HA has developed wider networks for sharing of electronic records within the organisation and there are pilot projects on sharing of patient health records between HA and the private sector, sharing of patient records and management plans across sectors needs further development.

(C) Co-ordination of Care among Healthcare Professionals across Different Sectors

4.6 Improving co-ordination of care is one important step in healthcare reform to enhance quality of care and efficient use of resources. Better co-ordinated care improves continuity of care, reduces duplication and helps patients receive the optimal care based on their needs. In Hong Kong, the compartmentalised healthcare system is not conducive to co-ordination of care. Breaking down existing barriers to enable the provision of more co-ordinated and integrated care would help improve the quality of our primary care services.

4.7 It is not easy for patients to navigate through our complex and divergent system for more suitable care, especially for chronic disease patients and the elderly who are more likely to have multiple contacts with various providers. Primary care doctors and multi-disciplinary teams of primary care professionals who provide longitudinal care and are familiar with the patients are their best partners and care co-ordinators to help them choose and access various services based on their needs.

(D) Preventive Approach to Tackle Major Disease Burden, Especially Chronic Diseases

4.8 The challenges of an ageing population and an increasing number of people living with chronic diseases place heavy demand on our healthcare system. Many of the costly and disabling chronic health problems, such as cardiovascular diseases, diabetes mellitus, chronic respiratory diseases and some cancers, are closely related to modifiable behavioural risk factors such as unhealthy diet, physical inactivity, tobacco use and harmful use of alcohol.
Chronic diseases account for about two-thirds of total deaths in Hong Kong\textsuperscript{69}.

It is estimated that 27\% of people aged 15 years or above are suffering from hypertension (HT)\textsuperscript{25}, and about one-tenth of the adult population have diabetes mellitus (DM)\textsuperscript{70}.

For the health of the whole population, we need to reduce people’s risk of becoming chronic disease patients, and to prevent disease deterioration and complications for people who already have chronic diseases. This involves a variety of strategies across the community, including the \textbf{promotion of healthy behaviours to reduce the risk of diseases, early detection of chronic diseases, and provision of high quality management} with the ultimate goal to reduce the incidence of complications and associated morbidities and mortality\textsuperscript{10,71,72}. Evidence about effective interventions shows that we can achieve these goals\textsuperscript{35,73,74,75}.

\begin{boxedtext}
\textbf{Box 5. Population and individual approaches in disease prevention}

- \textbf{Effective prevention} of chronic diseases involves integrating public health principles of population risk reduction with patient-centred primary care\textsuperscript{5,30}.

- \textbf{Both population-wide and high-risk individual approaches are important and complementary in chronic disease prevention}. They should be integrated as a comprehensive strategy that serves the needs of the entire population and has an impact at the individual, community and national levels\textsuperscript{67,76}. For example, controlling tobacco use calls for smoke-free legislation, public education and smoking cessation services provided to individuals.

- \textbf{Population approach} aims to reduce the risks throughout the entire population and addresses the causes of chronic diseases. A small shift in the average population levels of several risk factors can lead to a large reduction in chronic disease burden\textsuperscript{77,78,79,80,81}. For example, promoting healthy diet and physical activity among the population could successfully reduce the overall risk of developing cardiovascular diseases\textsuperscript{82}.
\end{boxedtext}
• **Individual-based approach** for interventions of **higher risk individuals** (e.g. people with obesity, older people and people with predisposing health conditions) has been shown to be effective in reducing the incidence of diseases like DM and heart diseases, delaying disease onset and reducing complications $^{83,84}$.

(E) **Inter-sectoral Collaboration to Improve the Availability of Quality Care, Especially Care for Chronic Disease Patients**

4.9 Accessibility to healthcare and availability of services when needed are the two key attributes of a good healthcare system that enables equity of care $^{1,85,86,87,88}$. Good accessibility involves the provision of care that is physically accessible, available, affordable and culturally appropriate $^{89,90}$.

- In Hong Kong, primary care services are **geographically accessible** to the vast majority of the population.
- The public healthcare sector provides a wide range of highly subsidised primary care services available at very low fee targeting the low income and under-privileged groups. However, the heavy reliance on the **public system** for chronic disease management and health services for elders results in **overcrowding and long queues for care**.
- Services in the **private healthcare sector** are **widely and directly accessible** to people who can afford to pay. Service fees are affordable to most of the population but people are more willing to pay for episodic curative care by doctors than preventive and other supporting care by the rest of the professions.

- **The private primary care providers can be more actively engaged** especially in the provision of care for chronic disease patients alongside the public sector. More collaboration and co-ordination between the public and private sectors are imperative to broaden the availability of more comprehensive and continuing care, especially care for people with chronic health problems. Besides financial hurdles, system barriers within and across
sectors, such as mutual communication and sharing of patient records, need to be managed for better public-private partnership.

- **Access to information on health and healthcare services**: Knowledge of disease management and understanding of available services are important for the access to appropriate and timely healthcare. Insufficient information on costs and effectiveness of care provided by the private market makes it difficult for patients to estimate their affordability and make informed choices, and has been shown to be one of the deterring factors for people to have access to the private sector.

(F) **Person-centred Care and Patient Empowerment**

4.10 Person-centred care and patient empowerment are imperative for effective disease prevention and control. Person-centred care aims at improving health literacy as well as strengthening individual participation and patient empowerment in health promotion and better management of diseases. Primary care professionals have key roles to play in supporting person-centred care in the community.

**Person-centred care**

4.11 **Person-centred care involves**

- embracing an approach to care that consciously adopts the patient’s perspectives, taking into consideration one’s social, cultural and psychological background;
- building partnerships and making collaborative efforts among the patient, his/her family and providers to support decision making and management;
- integrating prevention and health promotion with treatment;
- improving health literacy and accessibility to health information; and
- supporting patient empowerment and enhancing self-management capacity.

4.12 Strengthening person-centred care improves disease monitoring, prevents complications, as well as enhances treatment compliance, quality of care, patient satisfaction, self-efficacy and quality of life.
Patient empowerment

4.13 Empowerment in health is a process through which people gain greater control over decisions and actions affecting their health\textsuperscript{101}.

- Patient empowerment goes beyond the mere attainment of knowledge. It aims to help patients understand their diseases and health needs, build confidence, develop skills in self-management, strengthen linkages for support within the community and the healthcare system, and develop household capacity to stay healthy and to make healthy decisions\textsuperscript{102,103}.

- Empowering patients to participate actively in their disease management can improve care and health outcomes, especially for people with chronic diseases and other long-term conditions\textsuperscript{104,105,106,107}.

(G) Professional Development and Quality Improvement

4.14 A strong and well-trained healthcare workforce is critical for the sustainable development of our health services. A well-trained primary care workforce with suitable professional skill-mix working together in collaboration is needed for effective delivery of the whole range of primary care functions\textsuperscript{49,50}. Re-orientation of training towards person-centred care and provision of multi-disciplinary primary care in the community is also needed (Box 6).

Box 6. Preparing a Healthcare Workforce for the 21st Century (WHO)\textsuperscript{108}

Education and training of healthcare professionals usually place emphasis on understanding disease patho-physiology, diagnosis and treatment. To meet the increasing needs of person-centred care and emphasis on health promotion, the WHO supports development of the healthcare workforce to improve healthcare service delivery through five basic competencies which are applicable to all members of the workforce -

(a) **Patient-centred care**: possess effective communication skills, support patient education and self-management using a proactive approach
(b) **Partnering:** create and maintain effective partnership with patients and other providers in all levels of healthcare and the community

(c) **Quality improvement:** participate in care delivery and outcome monitoring, learn and adapt to changes in organisations and systems, and possess knowledge and skills to integrate scientific evidence and standards into practice

(d) **Information and communication technology:** attain the ability to use information and communication technology to support and monitor patient care

(e) **Public health perspectives:** Acquire the competency to provide public health functions including health promotion and preventive activities, incorporate system thinking, and work in a primary care-led system

---

(H) **Organisational and Infrastructural Support**

4.15 Primary care reform is a long-term and on-going process which requires coherent changes in the healthcare system with continuous improvement across a wide scope of areas beyond the capacity of any single agency or the sole effort of the Government\(^1,15,109\).

**The need for organisational support**

4.16 We need to foster continuous collaborative efforts between many partners in both the public and private sectors, including the healthcare professions, patient representatives, academia, policy makers, relevant Government departments (e.g. the Social Welfare Department responsible for social services and elderly support), and other key stakeholders in formulating and implementing recommendations for the development of primary care.

- A dedicated organisational set-up is required to provide on-going support and co-ordinate multi-partite efforts for the implementation of the recommended strategies, with a view to raising standards and quality of primary care services across sectors.
• The Government would take the lead in setting up and support the functioning of the long-term organisational structure in support of primary care development.

**Infrastructural support: health record sharing**

4.17 The use of modern information technology and sharing of patient health records among healthcare providers play an important role in the reform process.

• Effective sharing of health records and disease management plans across healthcare providers from different sectors through electronic systems can improve continuity, co-ordination and communication for better patient care; improve patient safety; and facilitate the monitoring and evaluation of service delivery and provision of more patient-centred integrated management\(^1,110,111,112,113\).

• Health information systems can also provide platforms to strengthen professional training and experience sharing among different providers, and help generate useful epidemiological information for health policymakers\(^114,115,116\).

**Taking forward the directions of primary care development**

4.18 A number of initiatives and pilot projects are being or will be carried out with a view to developing good primary care based on the eight strategies discussed above. They are summarised in Table 1, and will be discussed in further details in the following Chapters.
Table 1. Strategies for developing primary care in Hong Kong and initiatives and pilot projects being or will be carried out

<table>
<thead>
<tr>
<th>Initiatives and pilot projects to enhance primary care</th>
<th>Strategies to Enhance Primary Care in Hong Kong</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of Conceptual models and reference frameworks</td>
<td>Develop multidisciplinary and comprehensive primary care</td>
</tr>
<tr>
<td>Primary Care Directory</td>
<td>✓</td>
</tr>
<tr>
<td>Pilot projects to improve chronic disease management</td>
<td>✓</td>
</tr>
<tr>
<td>Community health centres and networks</td>
<td>✓</td>
</tr>
<tr>
<td>Primary dental care</td>
<td>✓</td>
</tr>
<tr>
<td>Community mental healthcare</td>
<td>✓</td>
</tr>
<tr>
<td>Electronic health record (eHR) sharing system</td>
<td>✓</td>
</tr>
<tr>
<td>Strengthening primary care-related research</td>
<td>✓</td>
</tr>
<tr>
<td>Establishment of the Primary Care Office</td>
<td>✓</td>
</tr>
</tbody>
</table>
5.1 **WGPC and its Task Forces** formulated a set of initial recommendations in 2009 for the development of better primary care services in Hong Kong through the following –

(a) developing primary care conceptual models and clinical protocols, especially for the prevention and management of common chronic diseases, with a view to guiding the provision of enhanced primary care;
(b) setting up a Primary Care Directory with a view to promoting enhanced primary care through the family doctor concept and adopting a multi-disciplinary approach; and
(c) devising feasible service models to deliver enhanced primary care services in the community through pilot projects as appropriate, including the setting up of community health centres.

(A) Development and Promotion of Conceptual Models and Reference Frameworks for Tackling Major Chronic Diseases

5.2 Common chronic diseases can be effectively managed by primary care services adopting a preventive approach \(^{73,117,118,119}\). Experience from many developed countries shows that sharing population-based common clinical management models and protocols among healthcare providers in different settings facilitates co-ordination of care, strengthens management continuity, promotes evidence-based practice and improves patient care \(^{120,121,122}\).

5.3 WGPC and the Task Force on Conceptual Model and Preventive Protocols under it have recommended the development of conceptual models and management protocols in the form of reference frameworks for major chronic diseases, starting with the commonest conditions, namely HT (high blood pressure) and DM.

- HT and DM are global health challenges which bring a huge public health burden and are leading causes of deaths \(^{24,123,124}\). Despite their high and rapidly growing prevalence, HT and DM often remain unidentified in many people
suffering from the diseases, and the conditions are also poorly controlled in many diagnosed patients.\textsuperscript{125,126}  
- WHO and many international health authorities have proposed initiatives to prevent and manage HT and DM, highlighting the role of primary care.\textsuperscript{73,127,128,129,130}  
- In Hong Kong, previous surveys showed that more than one-quarter of the population aged 15 years or above suffered from HT, and about one-tenth of the adult population had DM.\textsuperscript{70} 

Objectives of developing conceptual models and reference frameworks for tackling HT and DM  
5.4 The conceptual models and reference frameworks on HT and DM produced by WGPC aim to—  
(a) provide common reference to guide and co-ordinate efforts of healthcare professionals across different sectors in Hong Kong for the provision of continuing, comprehensive and evidence-based care for HT and DM in the community;  
(b) empower patients and their carers; and  
(c) raise the public’s awareness on the importance of preventing and properly managing these major chronic diseases.

Conceptual models for chronic disease prevention and management  
5.5 The model proposed is based on partnering of different healthcare professionals who work together, engaging patients, and interfacing with the community and other sectors (Figure 1).
Figure 1. Conceptual model for chronic disease prevention and management based on needs and risks across the life-course

<table>
<thead>
<tr>
<th>Strategies for Different Stages Across the Life Span</th>
<th>Primary prevention, Lifestyle modification</th>
<th>Risk factor identification &amp; Screening</th>
<th>Treatment</th>
<th>Care of complications &amp; Rehabilitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fetal stage and Infancy</td>
<td>• Diet, Physical activity, Tobacco control, Alcohol and Substance Abuse, Stress</td>
<td>• Early detection &amp; management of risk factors or diseases</td>
<td>• Evidence-based, quality care &amp; management in all clinical settings and the community</td>
<td></td>
</tr>
<tr>
<td>Childhood and Adolescence</td>
<td>• Age-specific issues, e.g. personal care, work-related problems</td>
<td>• Action based on individual’s risk profile</td>
<td>• Continuity of care</td>
<td></td>
</tr>
<tr>
<td>Adulthood (early adulthood, middle aged)</td>
<td></td>
<td></td>
<td>• Proactive approach</td>
<td></td>
</tr>
<tr>
<td>Elderly</td>
<td></td>
<td></td>
<td>• Self-management</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Carer support</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Support quality of life (QOL)</td>
<td></td>
</tr>
</tbody>
</table>

Multi-disciplinary Teams + Local Communities + Other Levels of Healthcare + Non-healthcare Sectors

Reference frameworks for tackling HT and DM

5.6 Internationally, guidelines are widely used as reference in health systems to define best practice, transfer evidence-based knowledge into actions for better quality and safety of care, and to provide common grounds for concerted inputs for the prevention and control of diseases, including HT and DM\(^ {76,131,132,133,134,135} \). Collaboration with stakeholders is essential for effective development, dissemination and implementation of reference frameworks on disease management\(^ {136,137,138} \).

Promoting the use of primary care models and reference frameworks

5.7 The views and support from key healthcare stakeholders, including experts in the field, representatives of various healthcare professionals and patient groups, have been very important as part of the process for developing reference frameworks in Hong Kong. Strategies for promoting the reference frameworks to the public, patients and healthcare professionals are being developed.
Evaluation and long-term development

5.8 Evaluation will be carried out to assess the development, implementation, dissemination and effectiveness of the reference frameworks for common health problems in improving primary care and patient outcomes. WGPC will review the reference frameworks on HT and DM over time through seeking clinical support so that the latest medical developments and evidence are reflected in the updated guidelines.

5.9 WGPC and its Task Force will develop conceptual models and preventive reference frameworks for the elderly and children, as well as continue to develop conceptual models and management/preventive reference frameworks for other major diseases or age group-specific health problems. These models and frameworks will form the basis to guide initiatives to enhance primary care.

(B) Development of a Primary Care Directory

5.10 The development of a Primary Care Directory ("the Directory"; previously called a "family doctor register") is proposed as part of the healthcare reform on primary care development to promote the family doctor concept. To take forward the task, WGPC and under it the Task Force on Primary Care Directory have made recommendations on the objectives, scope and detailed arrangement for establishing the Directory, including its entry and maintenance requirements.

Objectives

5.11 The establishment of the Primary Care Directory aims to -
(a) provide the public and healthcare service providers an easily accessible electronic database containing practice-based information of primary care professionals of various disciplines in the community;
(b) foster partnership between individuals and primary care practitioners as health co-ordinators; and
(c) facilitate the co-ordination among different primary care providers functioning as multi-disciplinary teams.
Multi-disciplinary team-based approach

5.12 Multi-disciplinary approach with joint input from the appropriate primary care disciplines is central to the provision of more comprehensive primary care to meet the multi-faceted health needs.

5.13 The Directory will consist of sub-directories for different healthcare professionals providing primary care in the community, including western medicine doctors (doctors), dentists, Chinese medicine practitioners, nurses, allied health professionals and other healthcare service providers in the community.

Phased development of the Primary Care Directory

5.14 Primary care providers will be grouped according to their professionals into different sub-directories.

- Taking into consideration the existing scope of practice and maturity for development, the Directory is being developed in phases. We will first establish the sub-directories of doctors and dentists. The first edition of the Directory is planned to be launched in 2010-11.
- Sub-directories of other professionals will be developed based on similar principles for the sub-directories of doctors and dentists, with appropriate modifications where necessary.

Information and structure of the Directory

5.15 The Directory would include background, professional qualification and practice information that helps the public identify the appropriate primary care providers.

5.16 To facilitate updating and searching, a web-based electronic version of the Directory will be developed. Linkage among different healthcare professionals will be considered so that members of the same primary care team can be easily identified.

5.17 In the light of difficulties in keeping the Directory up-to-date and to avoid unnecessary printing, hardcopy of the full Directory will not be produced.
Instead, printer-friendly function will be available. Searching functions will be incorporated so that users can search by name, profession, location of practice, service hours, etc.

5.18 The Directory will be linked to the territory-wide electronic health record (eHR) sharing system and electronic platforms for various Government subsidised healthcare schemes with a view to facilitating one-stop access by primary care practitioners and ensuring coherence in the informatics infrastructure for the healthcare system.

5.19 To enable the public to have a better understanding of the healthcare workforce, the professional roles and functions of different disciplines will be briefly introduced in the Directory. Information on the training and assessment requirements for attaining different categories of postgraduate quotable professional qualifications will also be included in the Directory.

5.20 The Directory can serve as a common platform to facilitate patient education and empowerment. It will be linked to health information and management protocols for common diseases, including the protocols developed by WGPC, and other health educational websites. Strategies are being developed to promote the professionals’ participation in the Directory and to increase the public’s awareness and utilisation.

Criteria for entering and remaining in the Doctor and Dentist sub-directories at the initial stage of development of the Directory

Entry requirements

5.21 Primary care is provided by a wide range of healthcare providers. For instance, doctors providing primary care in the community include general practitioners, specialists in family medicine and other specialists such as paediatricians, physicians and geriatricians. Entry requirements for the Directory will adopt a more inclusive approach at the initial stage in order to encourage wider engagement in enhancing primary care.
5.22 Initially, registered doctors and dentists who commit themselves to the provision of directly accessible, comprehensive, continuing and co-ordinated person-centred primary healthcare/ dental care services will be eligible for listing in the Directory, irrespective of their specialties or years of experience of practices. Future upgrading of entry requirements will be considered in the light of professional development of the primary care workforce to continue to improve the standards of primary care.

**Maintenance requirements**

5.23 Maintenance requirements will be set to uphold and improve the quality of services provided by primary care practitioners listed in the Directory. For example, certification of continuing medical education (CME) for doctors or continuing professional development (CPD) for dentists will be required.

5.24 To strengthen primary care-related training, additional conditions on CME or CPD requirement for doctors or dentists to remain in the Directory will be considered, for example,. a certain proportion of the minimal CME or CPD requirement should be specifically related to primary care.

**Facilitating professional development**

5.25 With the appropriate structure and scope of information, supported by shared health records and the appropriate incentives, the Directory can serve as a starting point for promoting the family doctor concept and incentivising the provision of quality primary care in the community.

- We are discussing with healthcare professionals the requirements for healthcare professionals to be included and continue to be listed in the Directory in respect of their professional qualifications, experience and training received, and the long-term development of the Directory.
- We will continue to work with the healthcare professionals, academia and relevant stakeholders to explore the enhancement in professional requirements for entering and remaining in the Directory in the future, and discuss other issues such as training and manpower development of primary care providers.
(C) Community Health Centres

5.26 One of the policy initiatives on enhancing primary care announced in the 2008-09 Policy Address was to explore the concept of “Community Health Centre” (CHC). Located in the community, CHCs aims to offer the public with one-stop, better co-ordinated, and more comprehensive primary care services. The idea of setting up CHCs and CHC-like networks, staffed by healthcare professionals from different disciplines working together in the community as a team, has been discussed by WGPC and its Task Forces.

5.27 CHCs or “polyclinics” have been established in various forms in many countries as means to enhance primary care and community support, and have been shown to improve care and health outcomes by improving comprehensiveness, co-ordination and availability of care\(^\text{39,139,140,141,142,143}\).

- The CHCs usually involve models of services with different healthcare professionals working together under the same roof or in networks in the community to provide one-stop, wider range of services (Figure 2).
- Enhanced health promotion and improvement of inter-disciplinary collaboration are often highlighted.

Figure 2. Community Health Centres (CHCs)/ CHC-like networks
(Diagram adapted from: “Healthcare for London 2007”\(^\text{139}\))
**CHC pilot projects**

5.28 The Government is planning various CHC pilot projects that aim to foster the provision of more comprehensive one-stop primary care services through CHC-type models. These CHC pilot projects may involve re-structuring existing health facilities currently accommodating various primary care services, developing new health facilities in newly developed or redeveloped areas, or creating networks among different primary care providers of close proximity in the community.

5.29 Depending on the population needs of the local community they serve, these CHC-type models may involve –

- **different services co-located** in the same building, or connected in the form of virtual networks;
- **different models of participation and partnership** among DH, HA, private healthcare sector, universities and/or NGOs; and
- **different combinations of services and healthcare professionals**.

---

**Box 7. Better co-ordination of public primary care services provided within existing community health complexes**

- Currently, it is not uncommon for public primary care services of DH and HA to be co-located in the same building. This could be further developed to form CHC with better co-ordinated services. Clinics managed by the universities may also be present.
- For instance, inside the building there may be a GOPC of HA, Elderly Health Centre (EHC), Maternal and Child Health Centre (MCHC), Student Health Service Centre (SHSC) of DH, and/or Family Medicine Clinic run by a university.
Within the health complex, while the services provided by different organisations are developed and organised independently, there would be scope for better co-ordination and greater synergy in the provision of preventive and curative services by avoiding duplication, optimising the use of space, and consciously fostering continuity of care and sharing of patient information.

Areas for further development

5.30 The Government is working together with the healthcare professionals and providers from the public sector, private sector, NGOs and the universities on the development of different CHC pilot projects. Different models of service provision will be explored in various CHC pilot projects. In general, the following principles will be highlighted in developing CHCs and CHC-like networks (Figure 3) -

(a) Enhance allied health and multi-disciplinary services

- The CHC models will emphasise the provision of multi-disciplinary services, taking into consideration that more allied health and nursing support services are needed in both the public and private primary care sectors for health promotion and chronic disease management.
- We will explore the provision of services by nurses and/or allied health professionals to support primary care doctors in both the public and private sectors, especially services which are not commonly available or accessible in the private sector; and to explore the idea of assigning nurses or allied health professionals as case managers or care co-ordinators for patients with complex chronic conditions.
- We will consider increasing the physical areas and facilities for organising multi-disciplinary care, to be shared by all parties within the same location under the CHC model.
(b) **Enhance health promotion activities**
- The health promotional function of CHC models will be strengthened. For instance, when physical space allows, more designated areas and facilities for organising health promotional activities can be made available in CHCs to be shared by all providers, e.g. areas for health information resources and activity rooms.
- Working in collaboration with health and other sectors in the community is essential for promoting health of the local population. We will work together with the local community and healthcare providers from different sectors to explore the most suitable model for individual CHCs.

(c) **Strengthen clinical services**
- We will improve comprehensiveness of care and proactive disease management under the CHC models. When necessary, existing clinical services will be reviewed and/or re-organised to reduce duplication and facilitate service development.

(d) **Improve co-ordination and continuity of care**
- Emphasis will be put on improving co-ordination of services provided by different providers under the same CHC or CHC network, taking into consideration services provided by the private sector and NGOs in the community. We will explore ways to re-design the patient care pathway so that preventive and curative services provided to patients or specific age-groups can be streamlined.
- Information technology systems will be used for sharing of health records among the service providers under the same CHC models to foster continuity of care. These individual systems will eventually form part of the territory-wide eHR sharing system under development.

(e) **Strengthen the efficient use of resources**
- The use of resources, such as space in existing buildings, health promotion facilities or treatment equipment, can be optimised through improvement in service co-ordination.
(f) Explore integrated care and strengthen collaboration with social care and the community

- Working together with local healthcare providers of the public and private sectors, NGOs, volunteer groups and social service agencies in the community, we will test out models of delivering more holistic healthcare, integrated with social services and personal care, in order to support people of long-term conditions and high-risk groups, e.g. the elderly or patients with multiple health and social problems.
- We will also explore different models, including the idea of having different healthcare professionals or social workers as case managers under the CHC models to co-ordinate the care of patients with multiple health and social or personal care needs.

Figure 3. Community Health Centres/ CHC-like networks: possible model(s) of care
6.1 The primary care strategy emphasises a step-by-step and consensus building approach to reforming the healthcare system, and a virtuous cycle of pilot-evaluation-adjustment for implementation of specific initiatives. This needs to be done through the involvement of key stakeholders in devising appropriate primary care models; implementing a series of well co-ordinated and evaluated pilot projects; assessing their appropriateness at filling service gaps in Hong Kong; and at the same time raising public awareness and promoting the value of high quality primary care services. These pilot projects will support the evaluation of the effectiveness and efficiency of the reform initiatives, and guide the further development of strategies and action plans to build up the reform process.

6.2 Since early 2009, the Government has taken forward various projects to engage different primary care professionals from the private sector, and to enhance the involvement and collaboration with the public sector in providing primary care and public health functions. These initiatives include the introduction of various healthcare voucher, healthcare partnership and vaccination subsidy schemes, involving a total funding of $1,791 million earmarked for period 2009-10 to 2012-13 –

- The Elderly Health Care Voucher Pilot Scheme has been launched in January 2009 for three years up to the end of 2011. Through the provision of partial subsidy, the Scheme aims to implement the “money-follows-patient” concept on a trial basis. This is to enable the elderly to choose within their local communities the private primary care services that best suit their needs, and to pilot a new model for subsidising primary care services.
- A series of seasonal influenza and pneumococcal vaccination programmes were introduced in 2009-10. Through the Elderly Vaccination Subsidy Scheme, elders aged 65 years and above can receive subsidised seasonal influenza and pneumococcal vaccinations provided by the private sector. The Government also provides subsidy for children aged 6 months to 6 years to receive seasonal influenza vaccinations from private doctors through the Childhood Influenza Vaccination Subsidy Scheme.
The Tin Shui Wai Primary Care Partnership Project was launched by HA in Tin Shui Wai North in June 2008. It is a three-year pilot project which allows chronic disease patients in stable conditions and in need of long-term follow-up treatment at public GOPCs to receive treatment from private doctors with partial subsidy provided by the Government. Participating patients are only required to pay the same fee as charged by GOPCs. The programme aims to strengthen the public general out-patient services in the district in order to address the increasing service demand and enhance the medical care rendered to chronic disease patients.

6.3 In addition, the Government has earmarked about $465 million for the period 2009-10 to 2011-12 to implement a series of pilot projects under the policy initiatives of enhancing primary care announced by the Chief Executive in his 2008-09 Policy Address. Another $600 million has been earmarked for the period 2010-11 to 2012-13 to launch additional pilot projects and to support the overall development of primary care.

6.4 This Chapter describes the pilot projects which are being carried out to enhance primary care in line with the key strategies explained in Chapter 4. Experience learned from these pilot projects and results of evaluation will be used to guide the further development of strategies and action plans. Other initiatives relating to the overall development of the primary care system are also outlined in this Chapter.

(A) Pilot Projects to Enhance Services and Support for the Management of Chronic Diseases

6.5 Building on the directions of primary care development already discussed, there are a series of pilot projects underway to strengthen chronic disease management.
6.6 Some of these projects involve public-private partnership or partnership between the public sector and NGOs. At the initial stage, these pilot projects mainly target at chronic disease patients under the care of HA. The Government will consider extending the programmes to cover chronic disease patients receiving healthcare from the private sector.

6.7 The pilot projects are monitored and evaluated with the involvement of third party assessors and academia to assess their acceptability, effectiveness and efficiency. Experience gathered from these pilot projects will shed light on the development of chronic disease management in the community, including ways to incentivise patients to choose services provided by the private primary care sector and enhance partnership among different healthcare providers.

(a) **Multi-disciplinary Risk Factor Assessment and Management Programme (RAMP)**

- Under this programme, multi-disciplinary teams of healthcare professionals including nurses, dietitians and pharmacists are set up at designated GOPCs of HA in selected clusters to provide comprehensive health risk assessment for HT and DM patients, so that they can receive appropriate preventive and follow-up care.
- The programme will be implemented in 27 GOPCs in six clusters (including Hong Kong East, Hong Kong West, Kowloon East, Kowloon Central, Kowloon West and New Territories East Clusters) in 2010-11, and will be extended to a total of 34 GOPCs in all seven clusters across the territory by 2011-12. A total of more than 167,100 patients are expected to benefit from the programme by 2011-12.

(b) **Patient Empowerment Programme (PEP)**

- A pilot patient empowerment programme has been implemented in selected clusters of HA in collaboration with NGOs to improve chronic disease patients’ knowledge of the diseases and enhance their self-management skills.
- A multi-disciplinary team comprising allied health professionals from HA will develop appropriate teaching materials and aids for common chronic diseases
(for example, HT, DM, chronic obstructive pulmonary disease, heart disease, etc.), and provide training for frontline staff of the participating NGOs organising the patient empowerment programmes.

- The programme will be extended to all seven HA clusters by 2011-12, serving a total of 32,000 patients.

(c) **Nurse and Allied Health Clinics (NAHC)**

- Nurse and Allied Health Clinics comprising HA nurses and allied health professionals have been established to provide more focused care for high-risk chronic disease patients, including those who require specific care services for health problems or complications. These services include fall prevention, handling of chronic respiratory problems, wound care, continence care, drug compliance and supporting mental wellness for individual patients.
- Pilot NAHCs are being established in selected GOPCs to provide these specific care support services. The programme is implemented in more than 40 GOPCs in all seven HA clusters with a total number of more than 224,500 attendances by 2011-12.

(d) **Public-Private Chronic Disease Management Shared Care Programme**

- “Shared Care Programme”

- At present, many chronic disease patients are receiving follow-up treatment at specialist out-patient clinics (SOPCs) of HA. Many of them are in stable conditions and can receive management in the primary care setting.

- The Shared Care Programme is a pilot project offering chronic disease patients currently under the care of the public healthcare system additional choices to have their conditions followed up by private doctors. The programme provides partial subsidy for patients to receive comprehensive management in the community, and supports the establishment of long-term partnership between patients and doctors of their choice. The Shared Care Programme primarily targets DM and HT patients who are currently taken care of by the public healthcare system.

- Through this programme, the Government seeks to assess the effectiveness of the primary care conceptual models and reference frameworks for DM and
HT developed by WGPC in disease management; test the service delivery model of public-private shared care for chronic disease patients; strengthen the involvement of private primary care doctors in the prevention and treatment of chronic diseases; and enhance the capability of the healthcare system in providing more comprehensive and continuing care for chronic disease patients.

Incentives to encourage quality care and self-management

- Participating private doctors are required to provide patients with comprehensive and continuing care based on the conceptual models and reference frameworks developed by WGPC.
- To encourage doctors to provide protocol-based management to patients, the Government will provide quality incentives to participating doctors when preset process indicators of care are met.
- To encourage patients to participate more actively in the management of their diseases, the Government will provide financial incentives to patients who show good compliance with management and can meet the preset health outcome indicators.

Support to private doctors and patients joining the programme

- HA is organising training and sharing sessions for participating private doctors with a view to facilitating communication and experience sharing between the public and private healthcare sectors.
- The public healthcare system will continue to monitor the conditions of patients and allow patients with deteriorating conditions to go back to the SOPCs for timely management.
- The Shared Care Programme is currently being piloted in Sha Tin and Tai Po of the New Territories East Cluster and Wan Chai and Eastern District of the Hong Kong East Cluster. Independent assessment body is engaged in the continuous evaluation of programme process and effectiveness. The Government and HA will make appropriate adjustments to the direction and detailed arrangements of the programme where necessary having regard to the results of evaluation and experience gained from the programme.
(B) Primary Dental Care

6.8 Dentists and other dental care professionals are important members of a multi-disciplinary primary care team in promoting oral and dental health. Poor oral health and dental problems can cause pain and discomfort, difficulty in eating (which in worse cases can result in deteriorating diet and compromised nutrition), impaired speech and loss of self-esteem. Improving oral health of the population is a major initiative advocated by WHO.¹⁴⁵

6.9 Currently in Hong Kong, primary dental care services are mainly provided by the private sector and NGOs. Public dental services essentially focus on the provision of emergency dental treatment to the public and basic dental care for primary school children. DH is also responsible for organising oral health promotion programmes in the community.

6.10 Previous surveys of oral and dental health among the local population showed that there is a need for improving oral health promotion and dental care, especially for the elderly people. In this connection, the Government is working with NGOs and dental professionals on initiatives to strengthen dental care for the needy elderly. The Government has earmarked resources to enhance primary dental care, mainly to support the development of pilot projects to improve dental care services of the needy elderly and to strengthen oral health promotion.

6.11 A Task Force on Primary Dental Care and Oral Health has been formed in late 2010 under WGPC, with representatives from the dental profession, academics, patient groups, HA and concerned government officials. The Task Force will advise the Government on the strategy and measures for development of primary dental care and promotion of oral health in Hong Kong as well as the formulation and implementation of related specific initiatives including pilot projects and surveys. The Task Force will also advise on the strategies and measures aiming to enhance the professional development of dentists and other supporting healthcare professionals.
(C) Strengthening Mental Health Services in Primary Care Setting

6.12 International perspectives recognise the advantages of integrating care for mental health problems into the primary care system. Primary care providers can play an important role in promoting mental health, providing counselling, early diagnosis, early identification, and strengthening community-based care. There is a need to strengthen collaboration among psychiatric specialists, primary care providers and social service sector to improve care and support for mental patients in the community.

6.13 The Government plans to improve mental healthcare through the provision of a comprehensive range of services on early intervention, medical treatment and community support, embracing a multi-disciplinary and cross-sectoral team approach. The Working Group on Mental Health Services, which is chaired by the Secretary for Food and Health and comprises experts and representatives from the health sector, welfare sector and academia, assists the Government in reviewing and improving its mental health services on an on-going basis.

6.14 Upon the advice of the Working Group on Mental Health Services, the Government seeks to enhance the support services to mental patients in the community setting through a number of initiatives.

- HA has set up Common Mental Disorder Clinics to provide patients with common mental disorders with more timely assessment and consultation services.
- HA has since October 2010 piloted an Integrated Mental Health Programme (IMHP) in five clusters to engage primary care services in supporting these patients. Under the IMHP, HA patients with stabilised and milder mental health conditions will be referred to GOPCs for further management by family medicine specialists and general practitioners working in multi-disciplinary teams.
- As announced in the 2010-11 Policy Address, HA will expand the IMHP to cover all clusters in 2011-12 in order to tackle more effectively cases of mild
mental illness in the community. The Government will continue to promote collaboration between HA psychiatric specialist out-patient services and primary care services to enhance the support for patients with common mental disorders.

**(D) Strengthening Infrastructural Support on Health Record Sharing**

6.15 In the discussion paper “Building a Healthy Tomorrow”, it was recommended that in order to facilitate the best use of resources and provide the framework necessary for smooth transition of patients between different levels of care and between the public and private sectors, it would be essential to develop a system which enables better access and sharing of patients’ health records with patients’ consent.¹⁷

6.16 The development of a territory-wide patient-oriented eHR sharing system has gained broad support in the first stage public consultation on healthcare reform. Participation in eHR sharing will be voluntary and the sharing of patient health records is subject to patients’ express and informed consent.

6.17 The eHR sharing system and the use of information technology will provide an essential tool to support the provision of comprehensive, continuing and better co-ordinated healthcare services for individuals. It enables patients to take greater ownership and control of their health records, and in turn their health. The connection between hospitals and primary care practitioners and that between the public and private healthcare sectors through the eHR sharing system can also promote public-private partnership and integration of care.

6.18 To this end, the Government has taken a leading role in eHR development to handle the complex development involving a multitude of healthcare providers and sensitivity of personal health data. A dedicated eHR Office was set up in FHB in 2009 to steer and oversee the ten-year eHR Programme (from 2009-10 to 2018-19), with the technical support of HA which has developed a Clinical
Management System encompassing more than 8 million records. Under the guidance of the **Steering Committee on eHR Sharing** comprising members from both the public and private sectors, the eHR Office will spearhead and co-ordinate the ten-year programme with a view to ensuring coherent development in both the public and private sectors.

6.19 The objectives of the First Stage eHR Programme (from 2009-10 to 2013-14) include –
(a) to set up the eHR sharing platform by 2013-14 for connection with all public and private hospitals;
(b) to have integrated electronic medical/patient record (eMR/ePR) systems and other health information systems available in the market for private doctors, clinics and other health service providers to connect to the eHR sharing platform; and
(c) to formulate a legal framework for the eHR sharing system to protect data privacy and system security prior to commissioning of the system.

6.20 In order to facilitate patient participation in eHR sharing, the eHR Office also targets to set up a **patient portal** with secure access and patient identity authentication by the Second Stage eHR Programme (from 2014-15 to 2018-19). Through the patient portal, patients can view their own essential health data in the eHR sharing system. Besides, patients may request correction of data, and manage their consent to their eHR participation and the relationship with healthcare providers.

6.21 The development of the eHR sharing system can also support evidence-based practice such as the use and sharing of health data for better informed decision making and improvement in quality of care. It also helps generate epidemiological information important for public health research and planning of primary care development.
(E) Strengthening Research on Primary Care

6.22 To support healthcare reform, many developed countries have taken a proactive strategic approach in developing research strategies\textsuperscript{1,148,149,150}. The Government will continue to support and strengthen primary care-related research which is crucial for guiding the development of quality primary care. Reinforcement of such research would be essential for formulating evidence-based policies and strategies; identifying the needs and priorities of primary care in respect of different diseases and age groups; evaluating the effectiveness of different pilot projects and initiatives; and assessing the overall effectiveness of the primary care system in improving healthcare system and health of the population in order to refine the development strategies.

6.23 The Government has reserved resources for conducting research projects on primary care. Working together with the health professions, academia and researchers, research projects will be carried out in the following main areas –
(a) to assess the healthcare needs of different population and patient groups;
(b) to review local and international evidence on effective strategies to improve primary care;
(c) to explore methods to promote patient empowerment and patient-centred care;
(d) to evaluate the implementation, effectiveness and efficiency of various pilot projects that aim at improving primary care services; and
(e) to formulate the directions of primary care workforce development.

6.24 Sustainable enhancement of quality primary care also requires capacity and structural support for research and evidence-based practice. We will develop infrastructure to support population-based health-related research, for example, by making use of the eHR sharing system. Through the collaboration with key stakeholders, we will further facilitate knowledge exchange among academia, researchers, practitioners and policy makers, and strengthen the local and international health services research networks.
Chapter 7. The Need for Further Development

7.1 The long-term development of a strong primary care system responding effectively and efficiently to the changing needs of population is a continuous process that entails multi-partite collaboration and multi-pronged strategies. The Government will continue to learn from regional and international experience, and engage the health professions, patient groups and other key stakeholders to develop strategies to enhance primary care and strengthen its major attributes for the provision of quality care to our population.

7.2 The following paragraphs outline areas that the Government will explore through the Primary Care Office (please see Chapter 8) under the advice of WGPC and in consultation with relevant stakeholders in building a good primary care system based on the key strategies explained in Chapter 4.

(a) How can we strengthen the provision of better co-ordinated, comprehensive and continuing primary care?

(i) Enhance primary care providers’ role as co-ordinators of care for their patients, such as referring patients to seek higher levels of care for allied health services where needed. This is of special value in supporting and improving the care for chronic disease patients and the elderly.\textsuperscript{151,152}

(ii) Explore ways to encourage each individual to have a regular primary care practitioner/ a team of primary care providers as partner and advisor to co-ordinate healthcare that suits his/her needs throughout the life-course.

(iii) Develop nurses and allied health professionals as case managers to co-ordinate care for chronic disease patients and the elderly. Projects in this regard have been carried out locally to support the community and hospital-discharged patients with encouraging results.\textsuperscript{153,154,155}

(iv) New collaborative models to enhance multi-disciplinary care, including the mechanisms for allowing private doctors to refer patients to allied health or nursing care services in the public sector or NGOs should be considered. Models of collaboration with Chinese medicine
practitioners, dentists, pharmacists and other healthcare providers in the community should also be examined.

(v) **Continuity of care** can be improved by re-arrangement of care provision so that patients, especially those with long-term conditions, can be taken care of by the same team of providers. Sharing of disease management protocols and joint development of care plans can foster management continuity, and provide predictability for action for both patients and providers.

(vi) **Improve integration of primary care with the whole healthcare system.** In particular, the following should be observed –

- In planning and developing primary care services for the local community, existing health services provided by the public sector, private sector and NGOs should be taken into account; engagement of local people and other stakeholders should be encouraged.

- **Referral between primary care and specialist or hospital care should entail a two-way flow of information.** This will need changes in management arrangement and establishment of platform for sharing.

- **Different models of integrated care should be explored**, especially in the development of CHCs or CHC networks. For instance, models that integrate multi-disciplinary primary care with social services and personal care, supported by secondary care services, NGOs and volunteer groups in the community, can be developed to improve care and support for chronic disease patients and high-risk elderly. **Overseas integrated systems** that have been shown to be effective to variable degrees in improving process of care, patient outcome and quality of care, such as the model developed by Kaiser Permanente\textsuperscript{156,157}, The Medical Home Mode\textsuperscript{152}, the Chronic Care Model\textsuperscript{118,158}, the WHO Innovative Care for Chronic Conditions Framework\textsuperscript{144}, and the NHS and Social Care model\textsuperscript{159}, could be taken as reference.
(b) How can we take a more proactive approach in tackling chronic diseases in Hong Kong?

(i) **Adopt a proactive and preventive approach**

- It is internationally recognised that a proactive and preventive approach in the control of chronic diseases is needed\(^8,\,72,\,119,\,160\). This involves a **system-wide** approach across the spectrum of primary, secondary and tertiary levels of prevention\(^10,\,101\).

- The **life-course approach**\(^d\) emphasises the potential for identifying the most appropriate and effective policies for chronic disease prevention and health promotion through reduction of risk at all stages of life\(^161,\,162\). This could be strengthened by the development and implementation of age-group specific preventive reference frameworks.

(ii) Evidence supports the effectiveness of doctors’ advice and the role of nurses in health promotion, such as smoking cessation and exercise promotion\(^163,\,164\). Programmes such as the “**Exercise Prescription Programme**” have been organised locally to engage private doctors in exercise promotion\(^165\). **Initiatives and collaborative models should be explored to facilitate primary care providers in promoting health.**

(iii) **Strengthen and further explore appropriate models for chronic disease management.** The modern model of management for chronic diseases incorporates disease prevention and identification, risk stratification, multi-disciplinary support, evidence-based practice, sharing of information, patient empowerment, engagement of the community, and integration among different providers. Such an approach is shown to be effective in providing better care, improving patient outcomes, and reducing complications, hospitalisation and healthcare cost\(^144,\,157\).

c. **Primary prevention**\(^10,\,101\) is directed towards preventing the initial occurrence of a disorder. **Secondary and tertiary prevention** seeks to arrest or retard existing disease and its effects through early detection and appropriate treatment; or to reduce the occurrence of relapses and the establishment of chronic complications through, for example, effective rehabilitation.

d. **The life-course approach**\(^161\) considers chronic disease in terms of the social and physical hazards, and the consequent biological, behavioural and psychosocial processes that operate across all stages of the life-span to cause or modify risk of disease. The risk of chronic disease accumulates with age. This perspective carries a substantial potential for identifying the most appropriate and effective policies for chronic disease prevention and health promotion through reduction of risk at all stages of life.
(iv) Integrate primary care services with public health function in disease prevention and health promotion has been underscored by WHO. Primary care providers’ role in health promotion as well as prevention of diseases and injuries should continue to be strengthened. Partnership of primary care services with the community, volunteer groups, schools, workplaces, etc. is needed for effective health promotion and prevention of diseases –

- For instance, advice given by doctors on lifestyle modifications will need community-wide, cross-sectoral support to make the social and physical environments more desirable for sustainable changes in behaviours such as healthy diet and physical activity.
- The Government has developed a “Strategic Framework for Prevention and Control of Non-communicable Diseases” to improve the population’s health profile and reduce the local burden of non-communicable diseases (NCD). A Steering Committee on Prevention and Control of NCD has also been set up to deliberate on and oversee the overall roadmap for implementation. WGPC and the Steering Committee on Prevention and Control of NCD will co-ordinate and align the recommended strategies and action plans to support territory-wide efforts for better chronic disease prevention and management.

(c) What do we need to do to further enhance the availability of comprehensive care for chronic diseases?

(i) Plan service development from a population perspective and improve co-ordination among different service providers to develop primary care services that are most needed, and to use resources efficiently. This also includes re-aligning the roles of public and private providers to enable more efficient skill-mix and co-ordination of care –

- Strengthen public-private partnership in chronic disease management through better co-ordination, shared care plans and appropriate subsidisation so that stable chronic disease patients can receive services in the private primary care sector.
● Improve price transparency in the private sector so that patients can make informed choices.
● The public primary care sector should continue to focus on serving the low-income, the under-privileged and the elderly.
(ii) Availability of out-of-hours services is also important for making primary care more accessible and reducing misuse of the emergency department for non-urgent consultations.

(d) How can we promote person-centred care and patient empowerment?
(i) Re-structure service delivery to promote patient participation and improve self-management support.
● Patients could be allowed to play a more active role in designing their care plans and setting goals. Involvement of patients and carer support groups in care planning can enhance their confidence and skills.
(ii) It is important to develop patients’ health literacy and skills for better disease monitoring and self-care.
(iii) Developing wider community support and collaboration is essential. Apart from the public and private medical services, NGOs, volunteer groups and other sectors such as workplaces and schools have been playing an important role in supporting person-centred care and patient empowerment in the community. Their role should be further strengthened.
(iv) It is necessary to incorporate patient-centred care and patient empowerment in research agenda and the training curriculum of health professions.

(e) How can we strengthen the development of primary care workforce?
(i) Strengthen primary care-oriented training and put emphasis on interdisciplinary collaboration.
● Apart from training healthcare professionals for the provision of clinical care, we need to support primary care-oriented training and enhance community perspectives in both undergraduate and postgraduate development levels.
Newer models of inter-professional learning and cultivation of multi-disciplinary team work are areas to be explored.

(ii) **Enhance training for family doctors and primary care dentists** for the provision of good primary care –

- Support professional training of doctors, including training on family medicine provided by the Hong Kong College of Family Physicians, the Hong Kong Academy of Medicine (HKAM) and universities, in collaboration with HA and private doctors.
- Work with the dental profession and the College of Dental Surgeons of Hong Kong regarding the development of professional training on primary dental care.
- Work with training institutions and the HKAM to strengthen primary care-related CME and CPD activities provided for doctors, nurses and dentists.

(iii) **Enhance the role of nurses, allied health and other professionals in the community.** This requires appropriate training at all career stages. Re-defining the roles and scope of practice of various healthcare professionals can be another strategy to make better use of an increasingly diversified workforce and help secure supply of the right skill-mix of professions.

- Initiatives to strengthen the functions of the Community Nursing Service (CNS), which has been providing invaluable support to patients living in the community, should be explored. For instance, pilot nurse clinics will be set up in public estates to provide centre-based model of care in the community, especially for the elderly, and to collaborate with the local NGOs and the community for promoting health of the local population.
- It is worthwhile to examine the more recent progress of nurse specialists (e.g. diabetic and cardiac nurse specialists) as well as nurse or allied health-led patient support programmes and case managers with a view to guiding their future development.
- Chinese medicine practitioners are important providers of primary care services in the community. The Government has started working
with Chinese medicine practitioners on the development of primary care services, including the provision of multi-disciplinary primary care.

(iv) **Provision of support for quality improvement and evidence-based practice** is important for the development of good primary care\textsuperscript{170,171}. Various means for improving healthcare quality is listed in Box 8.

(v) **We will work with healthcare professionals, academia and training institutes** on the overall planning and development of manpower to meet the changing needs of the Hong Kong population.

**Box 8. Quality improvement in healthcare**

The following areas need to be addressed and strengthened for quality improvement\textsuperscript{172} –

**Continuing Professional Development (CPD)**

- We can make use of the current platforms to encourage continuing professional development through provision of postgraduate training and accreditation of qualifications, continuing medical education, and requirements on renewal of practising licence or specialist status.
- Professional development will be developed through consultative processes with the professionals, healthcare organisations, regulatory authorities, patients and the public\textsuperscript{157}.

**Accountability**

- Primary care providers should be encouraged to become active partners in improving the quality of care. We need to enhance mechanisms for feedback of process and health outcomes, and to facilitate decision making and experience sharing.

**Guidelines for evidence-based practices**

- Development of practice guidelines which are used and shared by different providers help define best practice, transfer evidence-based knowledge into actions for better quality and safety of care, and co-ordinate inputs for prevention and control of diseases.
Support for decision making and formulation of management plans

- System support for decision making, feedback, communications, professional development and co-ordination of care can improve quality of care\textsuperscript{120,121,122}. This can be facilitated by improving infrastructural support and developing the eHR sharing system.

Incentives

- Financial incentives have been introduced in some countries to encourage best practice, support service improvement and promote patient empowerment\textsuperscript{173,174,175,176}. The use of financial incentives in various primary care pilot projects and their effectiveness should be closely monitored and evaluated.

(f) How can we improve long-term organisational and infrastructural support?

(i) A Primary Care Office has been set up, staffed by FHB, DH and HA, to better co-ordinate territory-wide development of primary care and service delivery. The Government will engage healthcare professionals and other stakeholders in directing the development of primary care.

(ii) Continue to strengthen collaborative efforts among healthcare providers from different sectors to develop services to fill the existing gaps. This can be enhanced through local platforms such as the CHCs and the Health City Projects.

(iii) Continue to develop the eHR sharing system to support information sharing, which can foster the development of better primary care.

(iv) Provide resources to support the long-term development of primary care having regard to the overall progress of healthcare reform, including supplementary healthcare financing arrangements and the resources available for health care.
Chapter 8. Setting up a Primary Care Office

8.1 The development of primary care requires long-term and on-going commitment, which in turn entails continuous and well co-ordinated strategies and actions which have been described in the previous chapters. A **Primary Care Office (PCO)** has been set up in DH to support and co-ordinate the development of primary care in Hong Kong, implement the primary care development strategies and actions, and co-ordinate actions among DH, HA, the private healthcare sector, NGOs and other healthcare providers. The dedicated PCO provides the necessary staffing support to co-ordinate the implementation of various projects to enhance primary care. It also provides the repository of necessary expertise and experience that are crucial for the successful implementation of the primary care development strategy.

8.2 To foster better co-ordination and provide the appropriate skill-mix for developing and implementing primary care initiatives, PCO will be a joint office comprising staff and healthcare professionals from FHB, DH and HA.

8.3 The respective roles of WGPC, FHB, PCO, the public and private healthcare sectors and other healthcare providers are as follows –

(a) WGPC (chaired by the Secretary for Food and Health) – to advise on strategic direction for enhancing and developing primary care in Hong Kong;
(b) FHB – to formulate policies on primary care and consider resources requirement based on direction advised by WGPC and to oversee the implementation of the primary care development strategy.
(c) PCO – to provide support to FHB on policy formulation and strategy development on primary care, and to co-ordinate DH, HA, private healthcare providers and other relevant stakeholders for the implementation of policies and initiatives to enhance primary care; and
(d) DH, HA, the private healthcare sector and other healthcare providers – to provide primary care services to the public.
**Duties of PCO**

8.4 The main mission of PCO is to further develop and implement the strategies for primary care development in Hong Kong, including those outlined in this document. Major functions of PCO include –

(a) to co-ordinate DH, HA, private healthcare providers and other stakeholders to implement population-wide policies and strategies to enhance primary care under the steer of FHB;

(b) to plan and oversee the work of public education for continuing promotion of good primary care;

(c) to draw on appropriate professional advice to develop and promote primary care conceptual models, clinical reference frameworks for major diseases and preventive reference frameworks for different age groups;

(d) to establish and maintain the Primary Care Directory;

(e) to explore, plan and implement different primary care service delivery models including the setting up of CHCs or CHC networks in local communities through partnership with the public and private sectors and NGOs;

(f) to support the development of primary care providers as well as primary care-oriented training for healthcare professionals;

(g) to conduct and co-ordinate research projects to assess the needs for primary care services in Hong Kong, and to work with independent assessment bodies to evaluate the effectiveness of reform initiatives; and

(h) to provide secretariat support to the Task Forces under WGPC.

8.5 To strengthen the engagement of a wider scope of relevant stakeholders in developing initiatives to enhance primary care, various Task Forces and sub-groups will be set up under WGPC to plan and take forward specific tasks to strengthen primary care services, e.g. setting up of CHCs and development of primary dental care. Clinical Advisory Groups will also be formed to review existing and develop new conceptual models and reference frameworks, and to advise on research and evaluation of pilot projects.

8.6 Making use of the occasion of publishing the strategy document on development of primary care, PCO will embark on a large-scale primary care
campaign targeting both healthcare professionals and the public. For example, we will meet the healthcare professionals and patient groups, host forums and promote through various mass media channels. The aims are to raise public awareness on the importance of primary care in disease prevention and management, encourage the public to adopt the core values of good primary care and embrace a proactive approach in improving health, and appeal to and engage the medical professional bodies to participate in the promotion of quality primary care. The momentum generated by this primary care campaign will need to be sustained through a continuous and well co-ordinated programme of health education and promotion initiatives in order to turn awareness into action, so that the objective of facilitating behavioural change of both individuals and healthcare providers can be achieved.
9.1 **Healthcare systems are at the frontier of change** in responding to the challenges posed by the epidemic of chronic diseases, the increasingly ageing population and the technological advancement in healthcare. There are pressing needs to re-direct and enhance the healthcare system towards the provision of readily accessible, comprehensive and co-ordinated first contact primary care that is continuous, preventive and person-centred in the community. The development of high quality primary care services requires strengthening support at organisational, infrastructural, professional development and community levels.

9.2 There are numerous areas for further development. Many initiatives, including but not limited to those referred to in this document, are on-going. We need concerted efforts in the long term for developing and improving the healthcare system in Hong Kong. The invaluable contribution from experts and key stakeholders is highly appreciated, but it is the views of every Hong Kong citizen that count. Despite the complexity of our existing system, we are making progress to meet the healthcare needs and aspirations of our population. However, we still have to devote more effort to achieve our vision.

9.3 This document outlines the strategies for primary care development in Hong Kong and highlights the important areas for improvement. The Government will continue to take responsibility for co-ordinating and supporting the reform process that will develop a better healthcare system and improve the health of our society. It is only through the participation of all of us that we can establish a primary care system that is effective, efficient, sustainable, and responsive to the ever-changing needs of our population.

9.4 Based on experience learnt and evaluation of the pilot projects, we will conduct a comprehensive review on the overall primary care development strategy every four to five years starting from now. The Government will co-ordinate the review through PCO and continue to engage stakeholders in the process through WGPC with a view to developing a better healthcare system.
Feedback from the first stage public consultation on healthcare reform on initiatives to reform primary care and service delivery in Hong Kong

In general, the public and healthcare professions support the following –

- There was an imminent need to reform the current healthcare system and improve the capacity and quality of healthcare services it provided.
- The Government should take the lead in carrying out reforms to our healthcare system, while preserving its current strengths, including our public healthcare system being accessible to all.
- There should be comprehensive reform on various interlinked aspects of the healthcare system in order to ensure its sustainability.
- The direction of enhancing primary care, and the proposals to improve existing primary care services and put greater emphasis on preventive care, including developing primary care service basic models, establishing a family doctor register, subsidising preventive care services, improving public primary care services, and strengthening public health education, were supported.
- More resources should be devoted to developing comprehensive, holistic and life-long primary care services that would emphasise disease prevention in the community.
- There should be a stronger role by the Government in primary care, especially in ensuring the standard and quality of services.
- The healthcare professions expressed general support to the direction for primary care reform, and every profession considered that they had a role to play in primary care, including in the proposed basic models for primary care and family doctor register, which many professions considered should not be confined to western medicine doctors.
- Some community organisations recognised the need for seamless collaboration and interfacing between primary care, community health care, and social services available within the community, especially elderly care. Many also recognised the importance of making use of the local community networks in enhancing primary care, e.g. promoting healthy lifestyles.
The public in general supported the direction of promoting public-private partnership in the provision of healthcare services, which could encourage healthy competition and collaboration between public and private sectors, thereby providing more cost-effective services and more choices of services. Some respondents considered that public-private partnership should provide a cost-effective way to shorten the waiting time for public services.

The healthcare professions in general welcomed the proposals to promote public-private partnership, which they felt should include a commitment by the Government to support the development of the private healthcare sector.

The majority supported the proposals for developing the eHR sharing system, noting its benefits to patients by enhancing efficiency and quality of care through avoiding duplicative investigation and facilitating collaboration among different healthcare professionals.

Areas of concerns –

The healthcare professions had different views on the appropriate delivery model for comprehensive primary care, including the respective roles of different healthcare professionals. Some healthcare professionals also expressed concerns over the respective roles of the public and private sectors in delivering primary care to the public.

Some respondents expressed concerns over whether the pursuit of public-private partnership might lead to the reduction of resources available for the public sector and affect the healthcare for the low-income and under-privileged groups, as well as further segmentation of accessible healthcare services.

Some healthcare professionals expressed concerns that public-private partnership might lead to unfair competition or interfere with the existing operation of the private healthcare market.

Some consumer and patient groups asked for proper monitoring and transparency under the public-private partnership models.
• Some healthcare professionals expressed concerns about the high cost of implementation of the eHR sharing system and likely impact on their existing mode of operations. Most considered that the Government should take the lead in devoting resources to develop eHR sharing as an infrastructure, and should provide incentives and support for practitioners to do so.

• In connection with the service reforms, concerns on a number of other related issues that would need to be addressed were also raised. These include –
  • the manpower capacity and training of healthcare professionals;
  • the capacity of the private healthcare sector and the transparency, quality and standard of services it offers;
  • the development of specific areas of healthcare services, such as Chinese medicine, dental services, mental health services, infirmary services and long-term medical care; and
  • the institutional set-up of the healthcare system.
Health and Medical Development Advisory Committee
Working Group on Primary Care

Terms of Reference

1. The Working Group on Primary Care (WGPC) under the Health and Medical Development Advisory Committee (HMDAC), chaired by the Secretary for Food and Health (with the Under Secretary for Food and Health as the alternate chairman) and comprising members from both the public and private sectors, shall be responsible for making recommendations to HMDAC on how to implement the various proposals in the Healthcare Reform Consultation Document “Your Health, Your Life” related to enhancing primary care in Hong Kong.

2. Specifically, the responsibilities of WGPC shall include making recommendations to HMDAC on the following –

(a) primary care service models that are locally relevant and feasible, with an emphasis on preventive care as a core component of comprehensive primary care;
(b) age-specific and sex-specific clinical protocols in the primary care setting, for reference by healthcare professionals and patients in both the public and private sectors;
(c) a Primary Care Directory to promote the family doctor concept and to provide patients with adequate information for identifying healthcare providers who provide comprehensive primary care to patients;
(d) strategies to promote the recommended service models, reference frameworks and Primary Care Directory to the public and healthcare professionals, and to incentivise their use and adherence respectively;
(e) institutional framework and mechanism for the establishment and maintenance of the service models, reference frameworks and the Directory, including the necessary training requirements;
(f) operational models for the delivery of comprehensive primary care to the public with the involvement of different healthcare professionals, such as the “Community Health Centre” concept; and

(g) any other issues relevant to the promotion and enhancement of primary care.

3. WGPC may set up Task Forces to undertake any of the above tasks and formulate proposals for WGPC to make recommendations to HMDAC. Secretariat support to WGPC is provided by the Food and Health Bureau, whereas secretariat support to the Task Forces under WGPC is provided by the Primary Care Office of the Department of Health.
# Working Group on Primary Care Membership List

| **Chairman** | Dr York CHOW Yat-ngok  
Secretary for Food and Health |
|--------------|--------------------------|
| **Alternate Chairman** | Prof Gabriel M LEUNG  
Under Secretary for Food and Health |
| **Food and Health Bureau** | Ms Sandra LEE Suk-yee  
Permanent Secretary for Food and Health (Health) |
| **Members** | Ms Elaine CHAN Sau-ho  
Vice President, Group & Credit Insurance  
Health Services Department  
American International Assurance Company (Bermuda) Limited |
| | Dr CHAN Wai-man  
Assistant Director of Health (Family & Elderly Health Services)  
Department of Health |
| | Dr Joseph CHAN Woon-tong  
Deputy Medical Superintendent  
Head, Department of Women’s Health and Obstetrics  
Hong Kong Sanatorium & Hospital |
| | Dr Lincoln CHEE Wang-jin  
Chief Executive Officer  
Quality Health Care Asia Limited |
| | Dr Raymond CHEN Chung-i  
Chief Executive Officer  
Hong Kong Baptist Hospital |
Mr CHEUNG Tak-hai  
Vice-chairperson  
Alliance for Patients’ Mutual Help Organizations

Dr CHU Leung-wing  
Consultant & Chief Division of Geriatric Medicine  
Queen Mary Hospital and Grantham Hospital  
Hospital Authority

Dr Daniel CHU Wai-sing  
Chief of Service and Cluster Service Coordinator (Family Medicine and Primary Healthcare) and  
Deputy Cluster Service Director (Community Services)  
Hong Kong East Cluster  
Hospital Authority

Ms Ivis CHUNG Wai-yee  
Chief Manager (Allied Health)  
Hospital Authority

Ms Sylvia FUNG Yuk-kuen  
Chief Manager (Nursing) /Chief Nurse Executive  
Hospital Authority

Prof Sian GRIFFITHS  
Professor of Public Health  
Director, School of Public Health and Primary Care  
Faculty of Medicine  
The Chinese University of Hong Kong

Ms Agnes HO Kam-har  
Head of Medical and Group Life  
HSBC Insurance (Asia) Limited
Annex B

<table>
<thead>
<tr>
<th>Dr Ronnie HUI Ka-wah</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Finance Officer and Executive Director</td>
</tr>
<tr>
<td>Town Health International Holdings Co., Ltd.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prof Cindy LAM Lo-kuen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor and Head, Department of Family Medicine and Primary Care</td>
</tr>
<tr>
<td>The University of Hong Kong</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ms Connie LAU Yin-hing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Executive, Consumer Council</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dr Paco LEE Wang-yat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialist in Family Medicine</td>
</tr>
<tr>
<td>St. Paul’s Hospital</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dr Sigmund LEUNG Sai-man</th>
</tr>
</thead>
<tbody>
<tr>
<td>President, Hong Kong Dental Association</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dr Donald LI Kwok-tung</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialist in Family Medicine</td>
</tr>
<tr>
<td>Director, Bauhinia Foundation Research Centre</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prof LIU Liang</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean, School of Chinese Medicine</td>
</tr>
<tr>
<td>Hong Kong Baptist University</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dr LO Su-vui</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director (Strategy and Planning)</td>
</tr>
<tr>
<td>Hospital Authority</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dr Louis SHIH Tai-cho</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialist in Dermatology &amp; Venereology</td>
</tr>
<tr>
<td>Name</td>
</tr>
<tr>
<td>-----------------------------</td>
</tr>
<tr>
<td>Dr TSE Hung-hing</td>
</tr>
<tr>
<td>The Hong Kong Medical Association</td>
</tr>
<tr>
<td>Dr Gene TSOI Wai-wang</td>
</tr>
<tr>
<td>The Hong Kong College of Family Physicians</td>
</tr>
<tr>
<td>Dr Nelson WONG Chi-kit</td>
</tr>
<tr>
<td>Dr Vio &amp; Partners</td>
</tr>
<tr>
<td>Prof Thomas WONG Kwok-shing</td>
</tr>
<tr>
<td>The Hong Kong Polytechnic University</td>
</tr>
<tr>
<td>Prof George WOO</td>
</tr>
<tr>
<td>The Hong Kong Polytechnic University</td>
</tr>
<tr>
<td>Dr YEUNG Chiu-fat</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
## Task Force on Conceptual Model and Preventive Protocols
### Membership List

| **Convenor**          | Prof Sian GRIFFITHS  
|                       | Professor of Public Health  
|                       | Director, School of Public Health and Primary Care  
|                       | Faculty of Medicine  
|                       | The Chinese University of Hong Kong |
| **Members**           | Dr Alfred AU Si-yen  
|                       | Service Director (Community Care)  
|                       | New Territories West Cluster, Hospital Authority |
|                       | Prof Cecilia CHAN Lai-wan  
|                       | Si Yuan Professor in Health and Social Work  
|                       | Director, Centre on Behavioral Health  
|                       | Professor, Department of Social Work and Social Administration  
|                       | The University of Hong Kong |
|                       | Dr CHAN Wai-man  
|                       | Assistant Director of Health (Family & Elderly Health Services)  
|                       | Department of Health |
|                       | Dr Joseph CHAN Woon-tong  
|                       | Deputy Medical Superintendent  
|                       | Head, Department of Women’s Health and Obstetrics  
|                       | Hong Kong Sanatorium & Hospital |
|                       | Dr Lincoln CHEE Wang-jin  
|                       | Chief Executive Officer  
<p>|                       | Quality Health Care Asia Limited |</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr CHEUNG Tak-hai</td>
<td>Vice-chairperson, Alliance for Patients’ Mutual Help Organizations</td>
</tr>
<tr>
<td>Dr Regina CHING Cheuk-tuen</td>
<td>Assistant Director of Health (Health Promotion), Department of Health</td>
</tr>
<tr>
<td>Dr CHU Leung-wing</td>
<td>Consultant &amp; Chief Division of Geriatric Medicine, Queen Mary Hospital and Grantham Hospital, Hospital Authority</td>
</tr>
<tr>
<td>Dr Daniel CHU Wai-sing</td>
<td>Chief of Service and Cluster Service Coordinator (Family Medicine and Primary Healthcare) and Deputy Cluster Service Director (Community Services), Hong Kong East Cluster, Hospital Authority</td>
</tr>
<tr>
<td>Ms Ivis CHUNG Wai-yee</td>
<td>Chief Manager (Allied Health), Hospital Authority</td>
</tr>
<tr>
<td>Ms Sylvia FUNG Yuk-kuen</td>
<td>Chief Manager (Nursing) /Chief Nurse Executive, Hospital Authority</td>
</tr>
<tr>
<td>Dr Ronnie HUI Ka-wah</td>
<td>Chief Finance Officer and Executive Director, Town Health International Holdings Co., Ltd.</td>
</tr>
<tr>
<td>Name</td>
<td>Position and Affiliation</td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>Prof Cindy LAM Lo-kuen</td>
<td>Professor and Head, Department of Family Medicine and Primary Care, The University of Hong Kong, Convenor of the Task Force on Primary Care Directory</td>
</tr>
<tr>
<td>Dr Augustine LAM Tsan</td>
<td>Chief of Service, Family Medicine, New Territories East Cluster, Hospital Authority</td>
</tr>
<tr>
<td>Dr Sigmund LEUNG Sai-man</td>
<td>President, Hong Kong Dental Association</td>
</tr>
<tr>
<td>Dr Shirley LEUNG Sze-lee</td>
<td>Principal Medical &amp; Health Officer (Family Health Service), Department of Health</td>
</tr>
<tr>
<td>Dr LEUNG Ting-hung</td>
<td>Head, Surveillance &amp; Epidemiology Branch, Centre for Health Protection, Department of Health</td>
</tr>
<tr>
<td>Dr Donald LI Kwok-tung</td>
<td>Specialist in Family Medicine, Director, Bauhinia Foundation Research Centre</td>
</tr>
<tr>
<td>Prof LIU Liang</td>
<td>Dean, School of Chinese Medicine, Hong Kong Baptist University</td>
</tr>
<tr>
<td>Dr LO Su-vui</td>
<td>Director (Strategy and Planning), Hospital Authority</td>
</tr>
<tr>
<td>Name</td>
<td>Position/Positional Title</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr Louis SHIH Tai-cho</td>
<td>Specialist in Dermatology &amp; Venereology</td>
</tr>
<tr>
<td></td>
<td>Convenor of the Task Force on Primary Care Delivery Models</td>
</tr>
<tr>
<td>Dr TSE Hung-hing</td>
<td>Immediate Past President</td>
</tr>
<tr>
<td></td>
<td>The Hong Kong Medical Association</td>
</tr>
<tr>
<td>Dr Gene TSOI Wai-wang</td>
<td>Immediate Past President</td>
</tr>
<tr>
<td></td>
<td>The Hong Kong College of Family Physicians</td>
</tr>
<tr>
<td>Prof Thomas WONG Kwok-shing</td>
<td>Vice President (Management)</td>
</tr>
<tr>
<td></td>
<td>The Hong Kong Polytechnic University</td>
</tr>
<tr>
<td>Dr Marcus WONG Mong-sze</td>
<td>Associate Consultant</td>
</tr>
<tr>
<td></td>
<td>Family Medicine and Primary Healthcare</td>
</tr>
<tr>
<td></td>
<td>Hong Kong East Cluster</td>
</tr>
<tr>
<td></td>
<td>Hospital Authority</td>
</tr>
<tr>
<td>Prof George WOO</td>
<td>Dean, Faculty of Health and Social Sciences</td>
</tr>
<tr>
<td></td>
<td>The Hong Kong Polytechnic University</td>
</tr>
<tr>
<td>Dr YEUNG Chiu-fat</td>
<td>President, Hong Kong Doctors Union</td>
</tr>
<tr>
<td>Dr Betty YOUNG Wan-yin</td>
<td>Honorary Consultant</td>
</tr>
<tr>
<td></td>
<td>Department of Paediatrics and Adolescent Medicine</td>
</tr>
<tr>
<td></td>
<td>Pamela Youde Nethersole Eastern Hospital</td>
</tr>
</tbody>
</table>
## Task Force on Primary Care Directory Membership List

| **Convenor**          | Prof Cindy LAM Lo-kuen  
|                       | Professor and Head   
|                       | Department of Family Medicine and Primary Care   
|                       | The University of Hong Kong |  
| **Members**           | Dr Amy CHAN Kit-ling  
|                       | Private General Practitioner |  
|                       | Dr CHAN Wai-man  
|                       | Assistant Director of Health (Family & Elderly Health Services)   
|                       | Department of Health |  
|                       | Dr Joseph CHAN Woon-tong  
|                       | Deputy Medical Superintendent   
|                       | Head, Department of Women’s Health and Obstetrics   
|                       | Hong Kong Sanatorium & Hospital |  
|                       | Dr Dawson FONG To-sang  
|                       | Immediate Past President, Federation of Medical Societies of Hong Kong   
|                       | Chief of Service and Consultant Neurosurgeon   
|                       | Department of Neurosurgery   
|                       | New Territories West Cluster   
|                       | Hospital Authority |  
|                       | Dr HO Chung-ping  
|                       | Specialist in Nephrology   
<p>|                       | Council Member, The Hong Kong Medical Association |</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Title &amp; Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Barbara LAM Cheung-cheung</td>
<td>Specialist in Paediatrics</td>
</tr>
<tr>
<td>Dr Augustine LAM Tsan</td>
<td>Chief of Service, Family Medicine</td>
</tr>
<tr>
<td></td>
<td>New Territories East Cluster Hospital Authority</td>
</tr>
<tr>
<td>Dr Raymond LEE Kin-man</td>
<td>Chairman, Committee of General Dentistry</td>
</tr>
<tr>
<td></td>
<td>The College of Dental Surgeons of Hong Kong</td>
</tr>
<tr>
<td></td>
<td>Honorary Secretary</td>
</tr>
<tr>
<td></td>
<td>Hong Kong Dental Association</td>
</tr>
<tr>
<td>Dr Paco LEE Wang-yat</td>
<td>Specialist in Family Medicine</td>
</tr>
<tr>
<td></td>
<td>St. Paul’s Hospital</td>
</tr>
<tr>
<td>Dr Belinda LEUNG Fung-ha</td>
<td>Specialist in Obstetrics &amp; Gynaecology</td>
</tr>
<tr>
<td>Dr Sigmund LEUNG Sai-man</td>
<td>President, Hong Kong Dental Association</td>
</tr>
<tr>
<td>Dr Donald LI Kwok-tung</td>
<td>Specialist in Family Medicine</td>
</tr>
<tr>
<td></td>
<td>Director, Bauhinia Foundation Research Centre</td>
</tr>
<tr>
<td>Dr LI Sum-wo</td>
<td>Chairman, The Association of Licentiates of Medical Council of Hong Kong</td>
</tr>
<tr>
<td></td>
<td>Council Member, Hong Kong Doctors Union</td>
</tr>
<tr>
<td></td>
<td>Council Member, The Hong Kong Medical Association</td>
</tr>
<tr>
<td>Name</td>
<td>Position/Government/Institution</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Prof LIU Liang</td>
<td>Dean, School of Chinese Medicine, Hong Kong Baptist University</td>
</tr>
<tr>
<td>Dr Wendy LO WONG Wan-ching</td>
<td>Specialist in Family Medicine</td>
</tr>
<tr>
<td>Dr TSE Hung-hing</td>
<td>Immediate Past President, The Hong Kong Medical Association</td>
</tr>
<tr>
<td>Dr Gene TSOI Wai-wang</td>
<td>Immediate Past President, The Hong Kong College of Family Physicians</td>
</tr>
<tr>
<td>Prof George WOO</td>
<td>Dean, Faculty of Health and Social Sciences, The Hong Kong Polytechnic University</td>
</tr>
<tr>
<td>Dr YEUNG Chiu-fat</td>
<td>President, Hong Kong Doctors Union</td>
</tr>
</tbody>
</table>
## Task Force on Primary Care Delivery Models
### Membership List

| **Convenor** | Dr Louis SHIH Tai-cho  
| | Specialist in Dermatology & Venereology |
| **Members** | Prof Cecilia CHAN Lai-wan  
| | Si Yuan Professor in Health and Social Work  
| | Director, Centre on Behavioral Health  
| | Professor, Department of Social Work and Social Administration  
| | The University of Hong Kong |
| | Ms Elaine CHAN Sau-ho  
| | Vice President, Group & Credit Insurance  
| | Health Services Department  
| | American International Assurance Company (Bermuda) Limited |
| | Dr CHAN Wai-man  
| | Assistant Director of Health (Family & Elderly Health Services)  
| | Department of Health |
| | Dr Joseph CHAN Woon-tong  
| | Deputy Medical Superintendent  
| | Head, Department of Women’s Health and Obstetrics  
| | Hong Kong Sanatorium & Hospital |
| | Dr Lincoln CHEE Wang-jin  
| | Chief Executive Officer  
<p>| | Quality Health Care Asia Limited |</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Raymond CHEN Chung-i</td>
<td>Chief Executive Officer, Hong Kong Baptist Hospital</td>
</tr>
<tr>
<td>Mr CHEUNG Tak-hai</td>
<td>Vice-chairperson, Alliance for Patients’ Mutual Help Organizations</td>
</tr>
<tr>
<td>Dr CHOI Kin</td>
<td>Specialist in Nephrology, President, The Hong Kong Medical Association</td>
</tr>
<tr>
<td>Dr CHU Leung-wing</td>
<td>Consultant &amp; Chief Division of Geriatric Medicine, Queen Mary Hospital and Grantham Hospital, Hospital Authority</td>
</tr>
<tr>
<td>Dr Daniel CHU Wai-sing</td>
<td>Chief of Service and Cluster Service Coordinator (Family Medicine and Primary Healthcare), Deputy Cluster Service Director (Community Services), Hong Kong East Cluster, Hospital Authority</td>
</tr>
<tr>
<td>Ms Agnes HO Kam-har</td>
<td>Head of Medical and Group Life, HSBC Insurance (Asia) Limited</td>
</tr>
<tr>
<td>Dr Ronnie HUI Ka-wah</td>
<td>Chief Finance Officer and Executive Director, Town Health International Holdings Co., Ltd.</td>
</tr>
<tr>
<td>Name</td>
<td>Position and Institution</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr Andrew IP Kit-kuen</td>
<td>Specialist in Family Medicine, Immediate Past President of the Hong Kong College of Family Physicians</td>
</tr>
<tr>
<td>Dr LAM Ching-choi</td>
<td>Chief Executive Officer, Haven of Hope Christian Services</td>
</tr>
<tr>
<td>Prof Cindy LAM Lo-kuen</td>
<td>Professor and Head, Department of Family Medicine and Primary Care, The University of Hong Kong</td>
</tr>
<tr>
<td>Dr Augustine LAM Tsan</td>
<td>Chief of Service, Family Medicine, New Territories East Cluster, Hospital Authority</td>
</tr>
<tr>
<td>Ms Connie LAU Yin-hing</td>
<td>Chief Executive, Consumer Council</td>
</tr>
<tr>
<td>Dr Paco LEE Wang-yat</td>
<td>Specialist in Family Medicine, St. Paul’s Hospital</td>
</tr>
<tr>
<td>Dr Sigmund LEUNG Sai-man</td>
<td>President, Hong Kong Dental Association</td>
</tr>
<tr>
<td>Dr Donald LI Kwok-tung</td>
<td>Specialist in Family Medicine, Director, Bauhinia Foundation Research Centre</td>
</tr>
<tr>
<td>Dr LI Sum-wo</td>
<td></td>
</tr>
<tr>
<td>Chairman, The Association of Licentiates of Medical Council of Hong Kong</td>
<td></td>
</tr>
<tr>
<td>Council Member, Hong Kong Doctors Union</td>
<td></td>
</tr>
<tr>
<td>Council Member, The Hong Kong Medical Association</td>
<td></td>
</tr>
<tr>
<td>Prof LIU Liang</td>
<td></td>
</tr>
<tr>
<td>Dean, School of Chinese Medicine</td>
<td></td>
</tr>
<tr>
<td>Hong Kong Baptist University</td>
<td></td>
</tr>
<tr>
<td>Dr LO Su-vui</td>
<td></td>
</tr>
<tr>
<td>Director (Strategy and Planning), Hospital Authority</td>
<td></td>
</tr>
<tr>
<td>Dr SIN Ngai-chuen</td>
<td></td>
</tr>
<tr>
<td>Senior Manager (Transformation Projects)</td>
<td></td>
</tr>
<tr>
<td>Hospital Authority</td>
<td></td>
</tr>
<tr>
<td>Dr Joyce TANG Shao-fen</td>
<td></td>
</tr>
<tr>
<td>Medical Director</td>
<td></td>
</tr>
<tr>
<td>United Christian Nethersole Community Health Service</td>
<td></td>
</tr>
<tr>
<td>Dr TSE Hung-hing</td>
<td></td>
</tr>
<tr>
<td>Immediate Past President</td>
<td></td>
</tr>
<tr>
<td>The Hong Kong Medical Association</td>
<td></td>
</tr>
<tr>
<td>Dr Gene TSOI Wai-wang</td>
<td></td>
</tr>
<tr>
<td>Immediate Past President</td>
<td></td>
</tr>
<tr>
<td>The Hong Kong College of Family Physicians</td>
<td></td>
</tr>
<tr>
<td>Dr Nelson WONG Chi-kit</td>
<td></td>
</tr>
<tr>
<td>Head, Corporate Medical Scheme Service</td>
<td></td>
</tr>
<tr>
<td>Dr Vio &amp; Partners</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Title and Institution</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>Prof Thomas WONG Kwok-shing</td>
<td>Vice President (Management) The Hong Kong Polytechnic University</td>
</tr>
<tr>
<td>Dr Marcus WONG Mong-sze</td>
<td>Associate Consultant Family Medicine and Primary Healthcare Hong Kong East Cluster, Hospital Authority</td>
</tr>
<tr>
<td>Prof George WOO</td>
<td>Dean, Faculty of Health and Social Sciences The Hong Kong Polytechnic University</td>
</tr>
<tr>
<td>Dr YEUNG Chiu-fat</td>
<td>President, Hong Kong Doctors Union</td>
</tr>
</tbody>
</table>
Reference


14. A study on the requirements of medical services of elderly citizens in Hong Kong. Hong Kong SAR: Hong Kong Academy of Medicine; 2009.


21. Data from the Hospital Authority; Hong Kong SAR: Hospital Authority; 2009.


40. Lam TP, Wun YT, Goldberg D, Li KTD, Yip KC, Lam KF. Is there a need to promote family medicine concept in Hong Kong? Meeting the need for recognition and treatment of depression as a model. Central Policy Unit. Hong Kong SAR Government; 2008.


75. Kong APS, Yang X, Ko GTC, So WY, Chan WB, Ma RCW et al. Effects of Treatment Targets on Subsequent Cardiovascular Events in Chinese Patients With Type 2 Diabetes. Diabetes Care 2007;30(4):953-959.


140. Shah CP, Moloughney BW. A strategic review of the community health centre program. Community and Health Promotion Branch. Ontario:


