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Fit for Purpose: Tax-based Health System in Asia

BMJ International Forum on Quality and Safety in Healthcare: Asia - Health Systems in an Aging Population

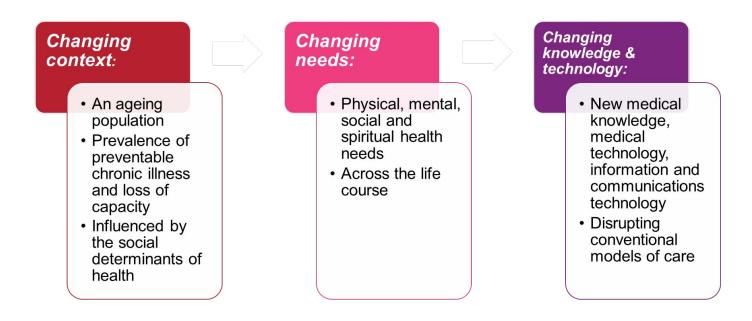
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A Fit for Purpose Health System

- A system suited to accomplish its intended purpose
- Changing in a changing world:







A Global Challenge: Becoming Fit for Purpose

Around the world, countries are facing similar challenges Demographic change (Ageing populations) Preventable chronic illnesses

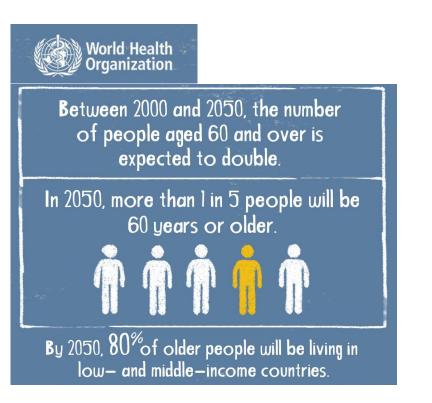
Technological change





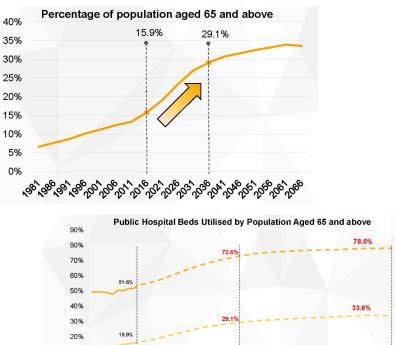
Hong Kong's Changing Context

Hong Kong Situation









2026

10% 0%

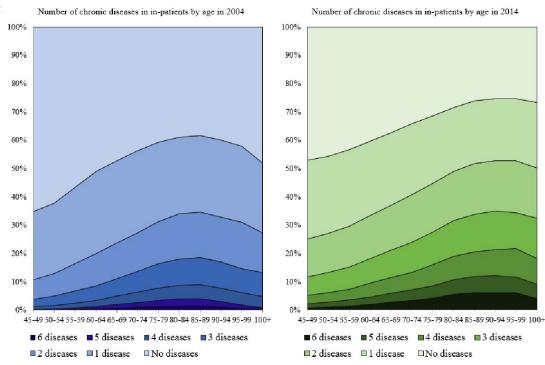
2008

2056 Source: Census Population Estimate:, Census Population Projection Census and Statistics Department: Hospital Authority Statistical Report 2008/09- 2016/17

2046

Hong Kong's Changing Needs

Number of chronic diseases among inpatients, by age group, in the public sector in year 2004 and 2014



Source: Yeoh (2018). Population ageing and systems rethinking. Annual Meeting of the International Society of Behavioral Nutrition and Physical Activity. International Society of Behavioral Nutrition and Physical Activity. <u>3-6 June 2018</u>.





Hong Kong's Challenges

- Longer living populations
- Prevalence of preventable chronic conditions
- Lifestyle-related and socially determined
- Fundamental mismatch between services
- Shifting demand profile necessitates a whole-of-society and life course approach

Fragmentation and segmentation

- Primary and hospital services
- Personal and population health services
- Long-term and community care
- Public and private sectors

Advances in:

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- Medical knowledge and technologies information and communication technology
- New opportunities while disrupting current healthcare provision and financing models





Hong Kong's Health System



Public Expenditure on Health (48.9%)

Private Expenditure on Health (51.1%)

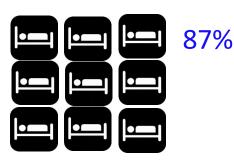




Hong Kong's Health System Service Delivery Public

Private

Inpatient (Hospital beds) In 2016







Outpatient

(Attendances)

In 2013 - Refers to consultations made to Western medicine and Chinese medicine practitioners during the 30 days before enumeration **ST ST ST** 31%

50 50 50 69% 50 50 50 50

Inpatient data from Department of Health and Hospital Authority; Outpatient data from Census and Statistics Department Thematic Household Survey Report No. 50

Diversity of Health Systems In Asia

Jurisdictions	Current health expenditure (CHE) (% of GDP)	Domestic general government health expenditure (% of CHE)	Domestic private health expenditure (% of CHE)	External health expenditure (% of CHE)	Private health
Afghanistan	10.2	5.1		17.5	expenditure
Bangladesh	2.4	18.0	1. S22332	7.6	
Myanmar	5.1	20.1		5.9	
India	3.7	25.4		1.0	- > 60%
Nepal	6.3	18.6		11.7	
Pakistan	2.8	27.9		4.1	
Philippines	4.4	31.5	66.3	2.2	-
Cambodia	6.1	21.8	59.2	18.9	
Sri Lanka	3.9	43.1	55.8	1.1	
Indonesia	3.1	44.7	54.8	0.4	
Hong Kong SAR, China	5.8	49.7	. 50.3	NA	
Lao PDR	2.4	32.4		18.1	- 40 - 60%
Malaysia	3.8	50.5	49.5	0.0	
Vietnam	5.7	47.4	48.5	2.3	
Singapore	4.5	54.5	45.5	0.0	
China	5.0	58.0	42.0	0.0	
Korea, Rep.	7.3	59.2	40.8	NA	
Mongolia	3.8	56.7	39.4	3.9	
Taiwan	6.0	62.9	37.1	NA	
Fiji	3.5	63.9	33.0	3.1	
Maldives	10.6	72.6	27.0	0.5	
Thailand	3.7	78.1	21.6	0.2	< 100/
Bhutan	3.2	74.0	21.3	4.8	- < 40%
Japan	10.9	83.6	16.4	0.0	
Timor-Leste	4.0	55.8	12.6	31.6	
Papua New Guinea	2.0	70.0	7.9	22.1	
Brunei Darussalam	2.3	94.9	5.1	0.0	

Source: World Bank Database, 2016; HKSAR: 2016/2017; Taiwan: Ministry of Health and Welfare, 2016

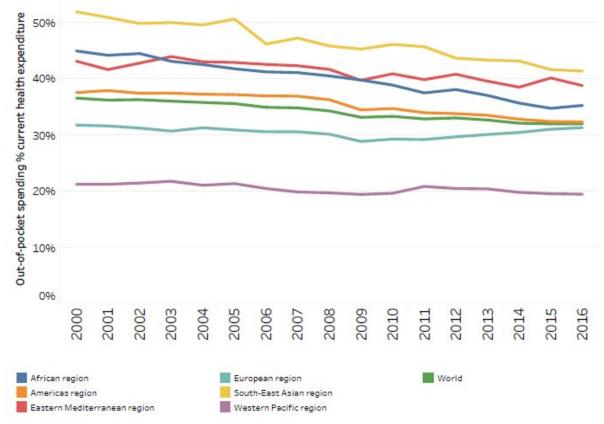


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Health Systems with Parallel Financing and Provision

Out-of-pocket spending as a percentage of current health expenditure, 2000–2016



WHO. Public Spending on Health: A closer Look at Global Trends Dec 2018

100 Taiwa Sri Lanka n (% of private health expenditure) **Japan**• 80 Malaysia ٠ Singapore Hong Kong Out of pocket 60 40 20 0 10 20 30 40 50 60 70 80 0 Source: World Bank Database, 2016

Out-of-pocket expenditure (% of CHE) by jurisdiction

Source: World Bank Database, 2016 HKSAR: 2016/2017 Taiwan: Ministry of Health and Welfare, 2016

Voluntary Health Insurance Schemes as % of Current Health Expenditure (CHE)

Jurisdictions	Voluntary Health Insurance Scheme as % of CHE in 2016
Hong Kong	16
Singapore	2
Malaysia	10
Sir Lanka	2
Japan	2

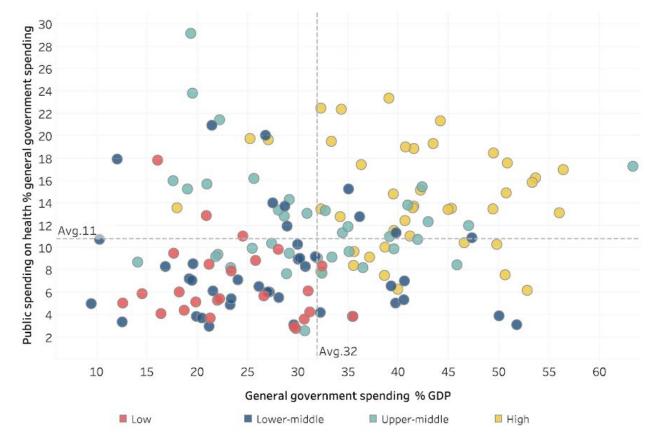
Voluntary health insurance schemes includes employer-based insurance schemes, and privately purchased insurance schemes.





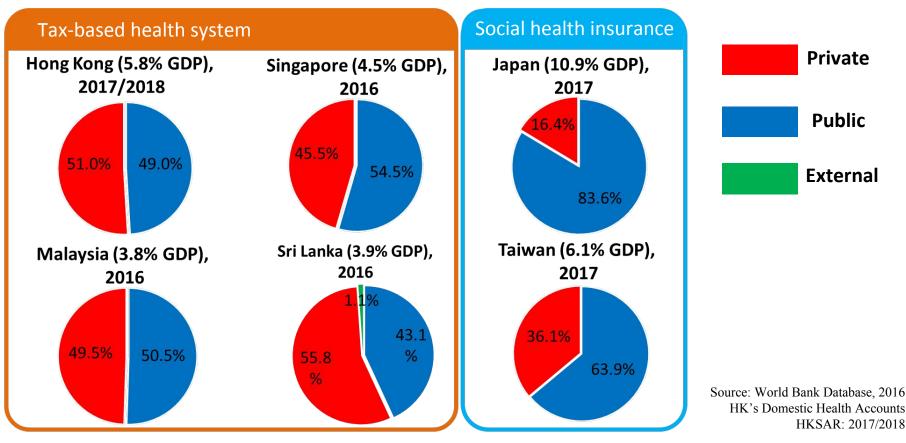


Overall public spending and prioritization of health vary across and within country income groups

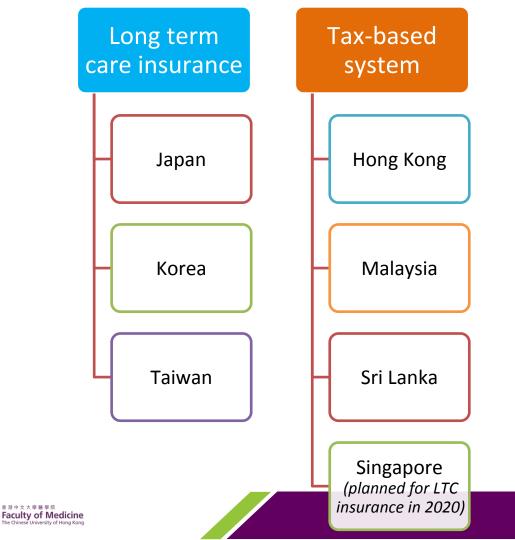


WHO. Public Spending on Health: A closer Look at Global Trends Dec 2018

Current Health Expenditure: Public and Private

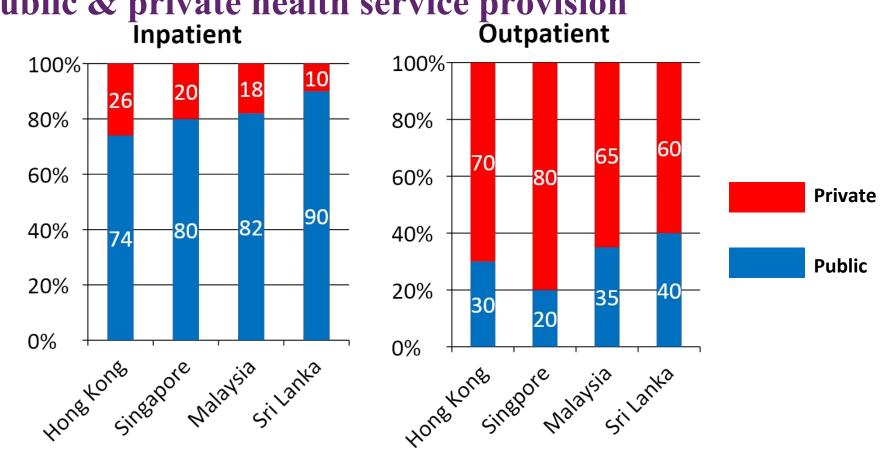


Long Term Care (LTC) Financing





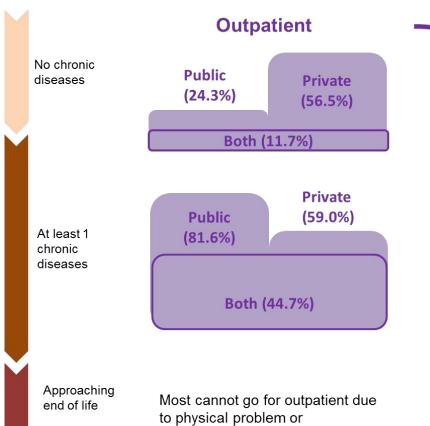




Source: Hong Kong - Thematic Household Survey no 58, 2015; Singapore, Sri Lanka - Lim MK, Singapore Health Care: a model of prudent, pragmatic, public-private partnershi National University of Singapore. Malaysia - WHO, Malaysia health system review. (Health Systems in Transition, Vol. 2 No. 1 2012) 17

Public & private health service provision

Hong Kong Elderly 65+

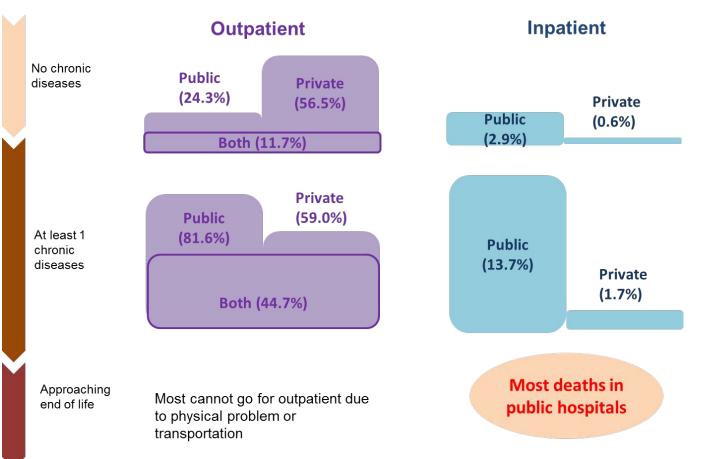


transportation

Heavy current burden on public services for chronic disease management

- → Service model to shift their choices of outpatient services
- → Better public-private linkage
- → Strengthen prevention and management of chronic diseases in primary care setting

Hong Kong Elderly 65+



Among all Hospital Admissions for Hong Kong Elderly, 65+

15% RCHE vs 85% home

46.8% due to ambulatory care sensitive conditions (ACSC)*

4% result in death in hosp.



About 20% avoidable readmission in 30days

Segmentation of Health and Social Systems

*ACSC: Conditions in which hospitalization can be avoided by timely and effective care in ambulatory settings

Source: Yeoh, 2018





Ambulatory Care Sensitive Conditions (ACSC)

- Good outpatient care can potentially prevent the need for hospitalization
- Timely and effective outpatient care can help to reduce the risks of hospitalization by preventing the onset of an illness or condition
- Early intervention can prevent complications or more severe disease

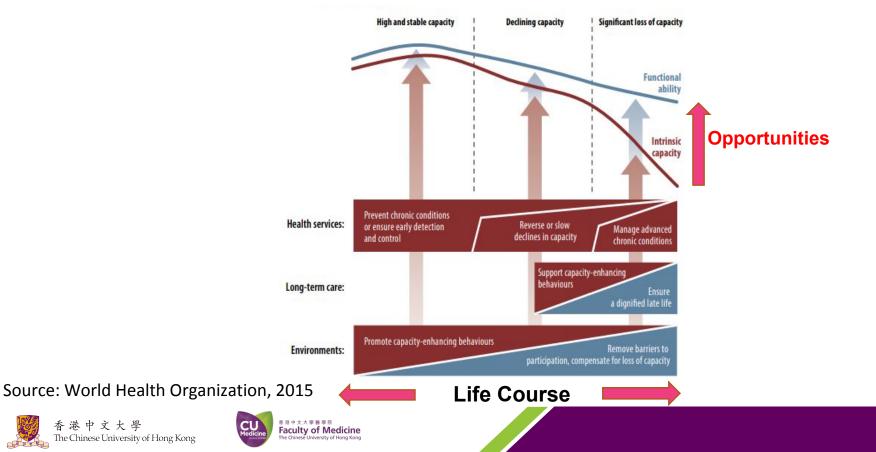
Ref: Agency for Healthcare Research and Quality, 2016, Billings et al, 1993







Public Health Framework for Healthy Ageing: Opportunities for Public Health Action across the Life Course



Challenge 1: Mismatch

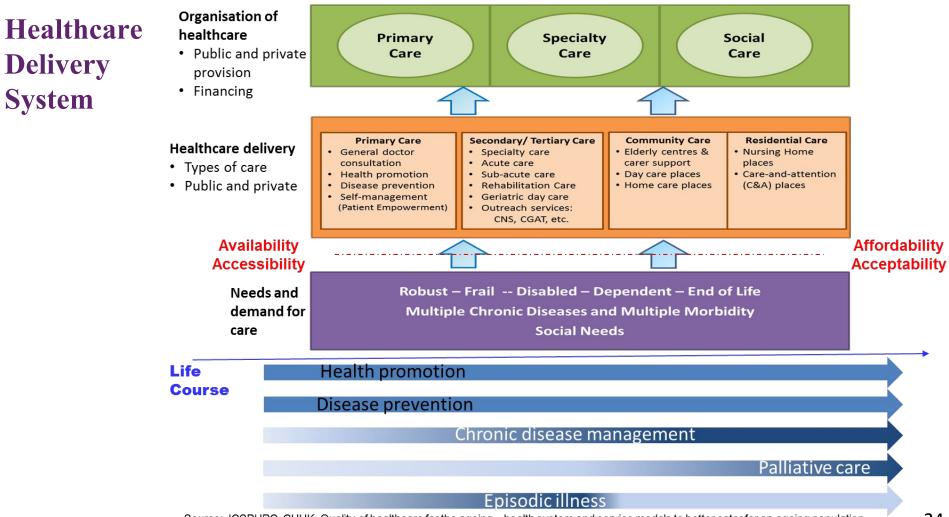
Mismatch between how health services are delivered and the changing healthcare needs of ageing population.

Disease-focused, hospital-centric care

Underdevelopment of social and communitybased care







Source: JCSPHPC, CUHK. Quality of healthcare for the ageing - health system and service models to better cater for an ageing population.

Challenge 2:

Fragmentation and Segmentation

Delivery system fragmentation

- Different types of care
- Different settings and organisations
- Different service **providers**
- Various processes
 - "Natural fissure lines" contributing to care fragmentation in a life course

Health system segmentation

- Segmentation of **service delivery and financing** between public and private sectors.
- Public-private divide

Health and social sector segmentation

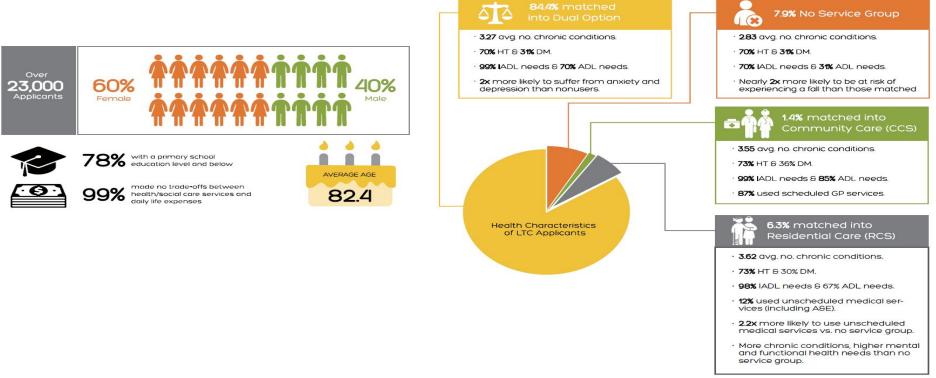
- Segmentation of service and finance of health social sector
- Hinder transition along patient care pathways & inadequate medical and social





Profile of Long Term Care Applicants

Standardised Care Need Assessment Mechanism for Elderly Services (SCNAMES)





Challenge 3: Primary Care

The primary care system is underdeveloped.

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- Primary care in the private sector is unaffordable for certain segments of the population
- Underdeveloped primary care contributes to:
 - System fragmentation
 - Service delivery inefficiency
 - Encourages patients to access specialist and acute services
 - Overspecialization results in multiple healthcare providers within a single patient care pathway contributing to fragmentation
 - Serial referrals to different specialists can lead to service overlap, gaps in service delivery, longer wait times and inefficiency





Challenge 4: Health System Governance Hong Kong has a number of governance challenges:

Strategic planning informed by intelligence of population needs and priority-setting Strategic commission & purchasing and incentive payment mechanisms

Public-Private Partnerships

- Predominantly designed to address immediate medical capacity demands modest in rollout
- Strategic role of private sector
- Demand-side financing risks

Accountability:

- Private sector
- Performance monitoring
- Standardization and price transparency

Health system & financial sustainability







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Opportunities

Transforming the system to be fit for purpose

Transforming the System to be Fit for Purpose

Person-centred Care

• We need to reorient the health system for "the community of persons".

Primary Care-led Integrated Care

• We need to reorganise how services are delivered to strengthen integration within and between providers and sectors.

Health Governance

• We need to put in place governance levers and structures to support and enable the development of new service models.





Integrating Care for Community of Persons

Integrating community and primary care: District health centres within and with public and private primary care, health promotion & prevention, specialist care, social services and community care

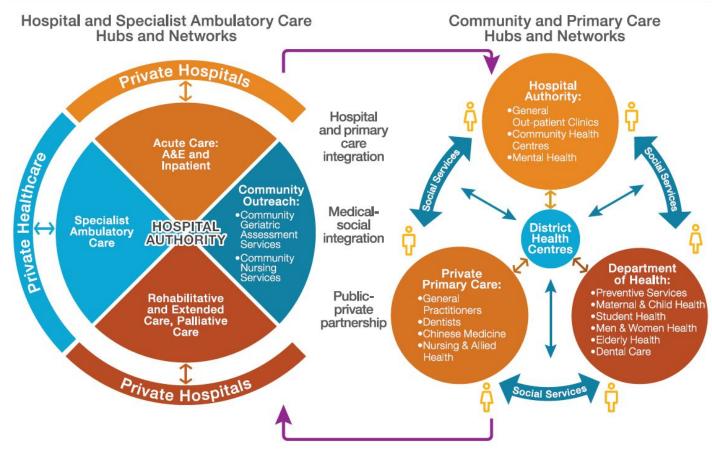
Integrating multidisciplinary care:

- Hospital & specialist care and community and primary care
- Primary & social and community care



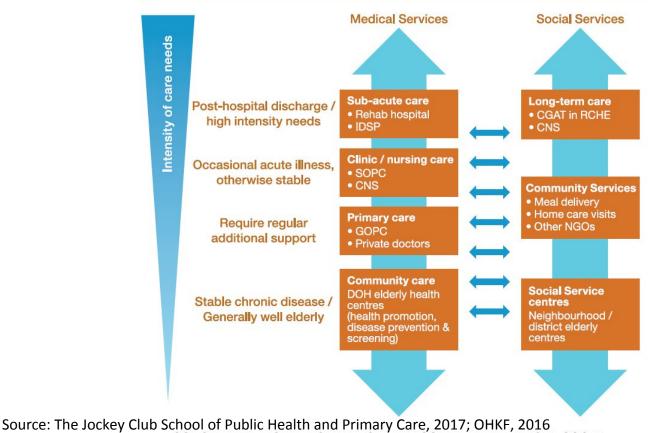


Conceptual Model of Integrated Health services

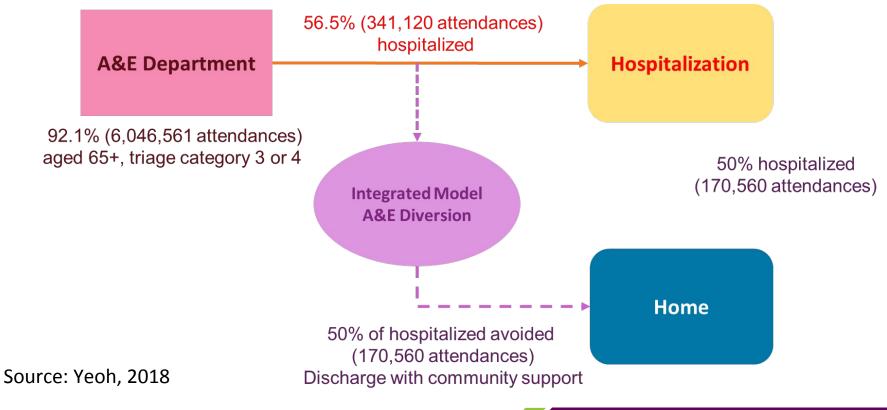


Source: The Jockey Club School of Public Health and Primary Care, 2018

Conceptual Model for Integrated Community Medical-social Services for the Care of Older People in Hong Kong



Integrated Model Between A&E and Geriatric







Health Governance

Health governance in primary care-led integrated person-centred care		
Strategic vision and the capacity to steer the health system.	 Vision for change needs to be feasible and tap into shared values to inspire change. Policies need to be in place to <i>support patients to co-design</i> the care they receive. 	
Strategic and needs-based planning and strategic purchasing, payment mechanisms and resource allocation.	 Needs and service mix assessments to inform priorities from strategic purchasing, commissioning mechanisms Appropriate resource allocation and payment mechanisms Budgetary, case payment, bundled, and mix payment capitation for primary, community and hospital inpatient care to encourage efficiency and effectiveness 	
Mechanisms to gather evidence and intelligence, research to support planning.	 Commission research studying how health system integration should work in Hong Kong with reference to a framework guided by a vision and systemic in its construct. 	





Health Governance (Cont'd)

Health governance in primary care-led integrated person-centred care				
21st century information architecture.	 Development of <i>information networks and platforms</i> such as a Big Data Analytics Platform, the electronic health record system and the development of a "Health ID" representing the collation of health data over a life course. 			
Align system incentives to promote integration.	 Consider strategically purchasing services encourage coordination and integration. Redesign vouchers and public-private partnerships to target disease prevention and chronic disease management. Personal health budgets can integrate services around individual patients and promote greater personalisation and wellbeing. Incentives for primary care workforce: performance payment, career structure, professionalism. 			







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Thank you!

37