



"Fit-for-purpose" – A Community-centric Health System in Ageing Population

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Structure of Paper

- Ageing Population
- Health Systems Transformation to be "Fit-for-purpose"
- Community-centric Health System



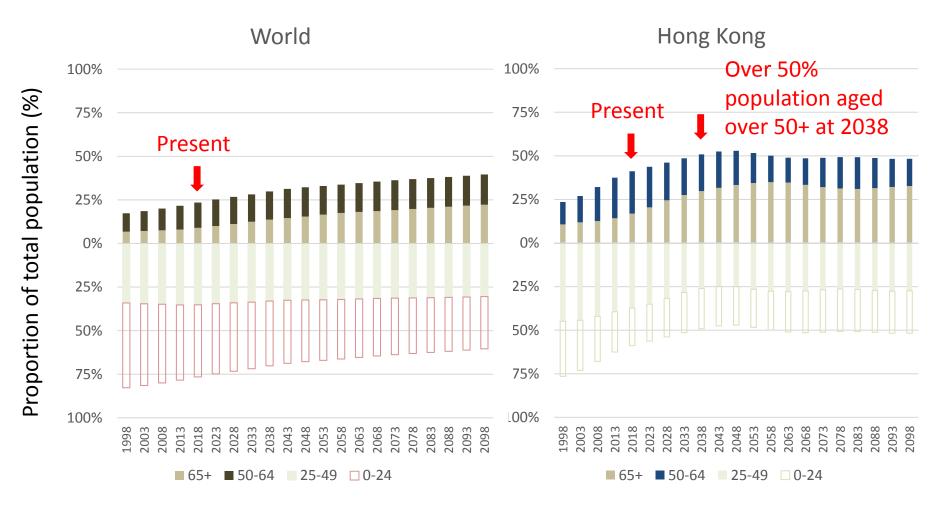








Demographic Shift

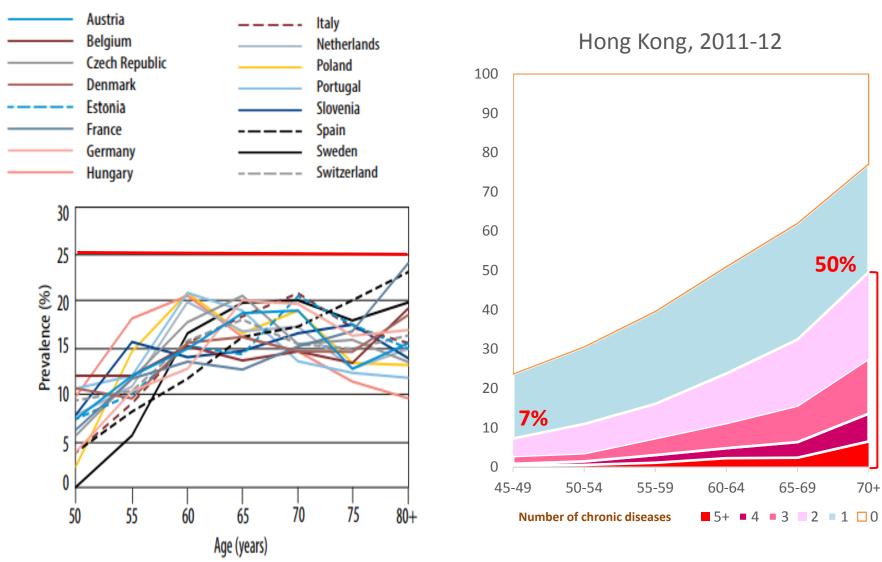


Source: United Nations, Department of Economic and Social Affairs, Population Division (2017). World Population Prospects: The 2017 Revision, custom data acquired via website.





Prevalence of Multi-morbidity Across Age



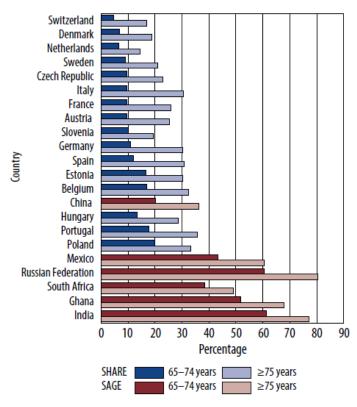






Functional Abilities

Percentage of the population aged 64-74 years and aged 75 years or older with a limitation in one or more of five basic activities of daily living (ADL), by country



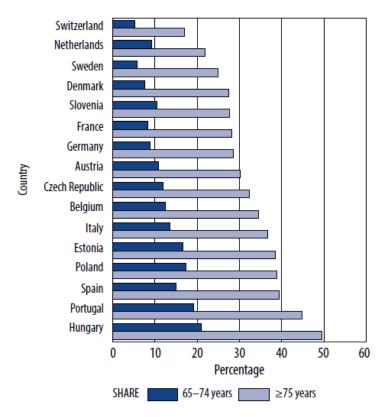
Five basic ADL: Eating, bathing, dressing, getting in/out of bed, using the toilet

Source: World Health Organization. 2015. World Report on Ageing and Health.

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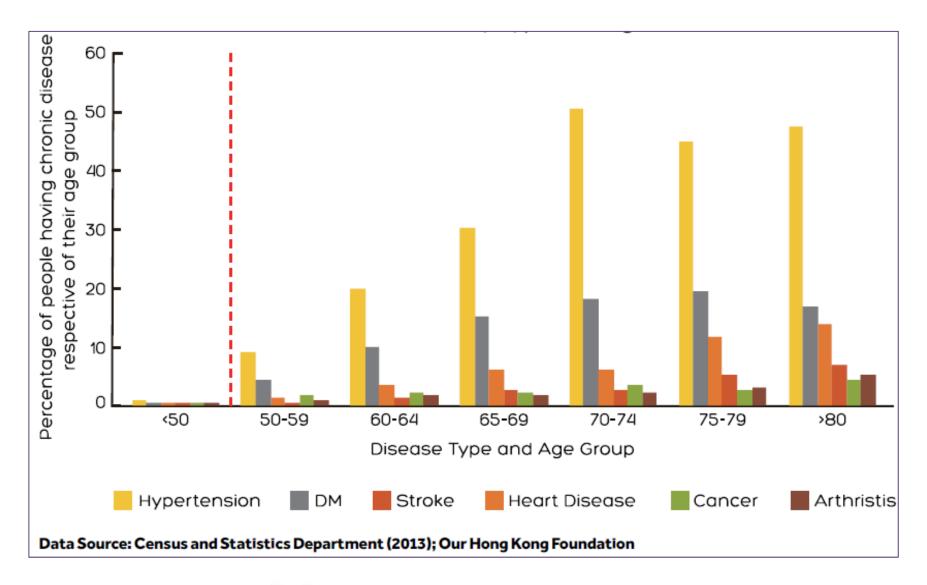
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Percentage of the population aged 64-74 years and aged 75 years or older with a limitation in one or more instrumental activities of daily living, by country



IADL: Difficulties using the telephone, taking medications, managing money, shopping for groceries, preparing meals and using a map

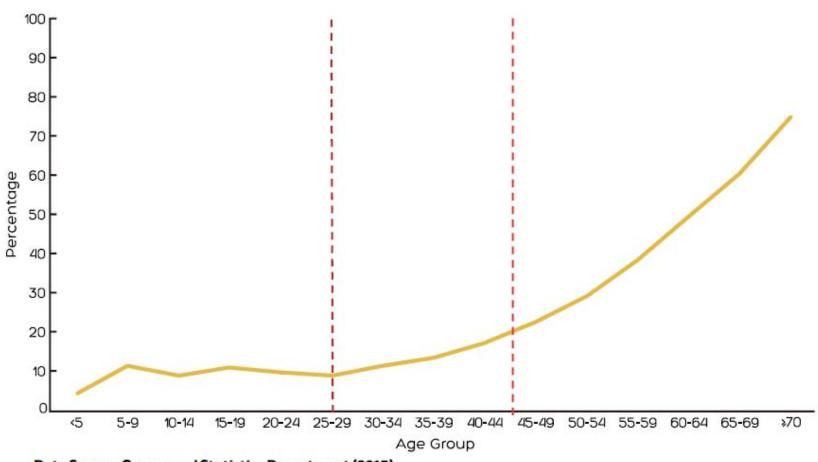
Chronic Disease by Type and Age







Percentage of People of Having at least 1 Chronic Conditions

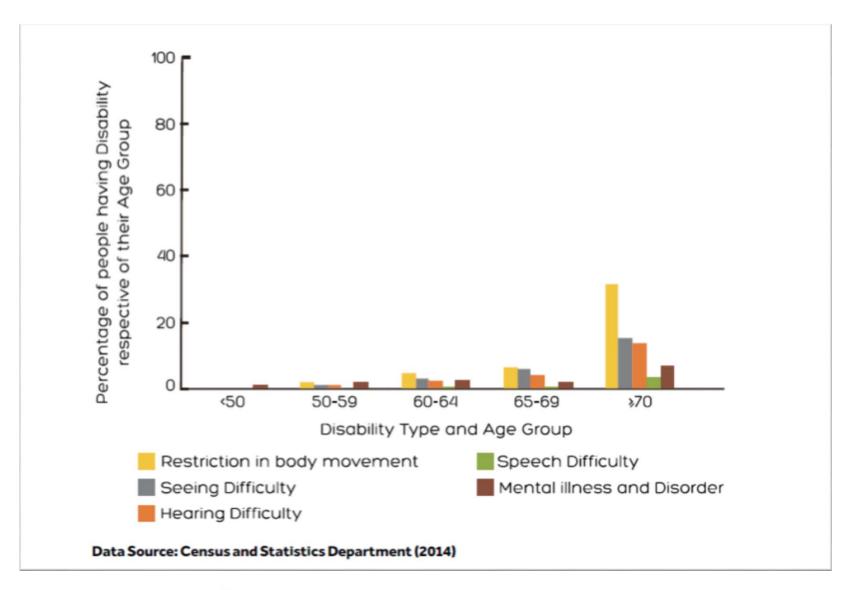


Data Source: Census and Statistics Department (2013)





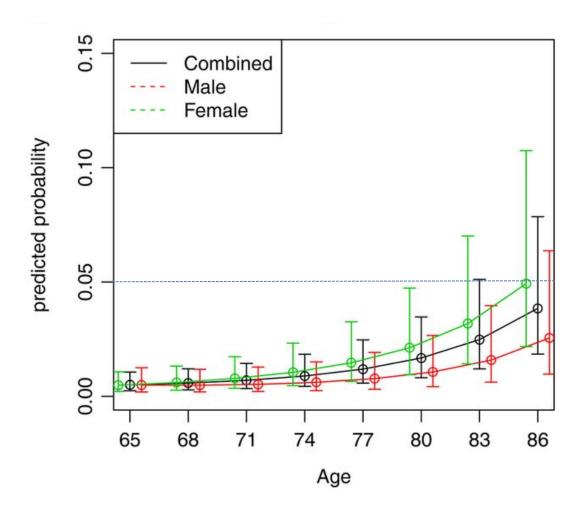
Chronic Disease by Type and Age







Trends of ADL Disability in Hong Kong



ADL disability: unable to perform at least one of seven ADL independently

- Bathing
- Dressing
- Toileting
- Transferring from a bed to a chair
- Feeding
- Grooming
- Ability to walk across a small room

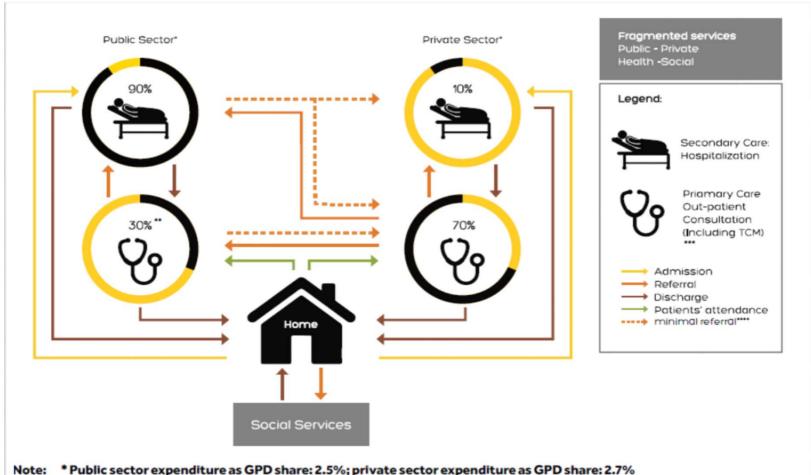
The model has adjusted for period, cohort, marital status, educational level, employment status, type of housing, physical exercise, smoking, alcohol intake, BMI, number of prescribed medications and self-rated health. ADL, activities of daily living; BMI, body mass index.

Source: Ruby Yu et al. BMJ Open 2016;6:e013259





Health Care and Social Care System of Hong Kong



- ** Including specialist out-patient consultation and AED services. Patients cannot go directly to public specialist out-patient consultation without referral.
- *** TCM: Traditional Chinese Medicine
- **** While a referral system exists from the public to private sector, the provision of referral is less than that from the private to public sector.

Source: Our Hong Kong Foundation





Profile of Long Term Care Applicants



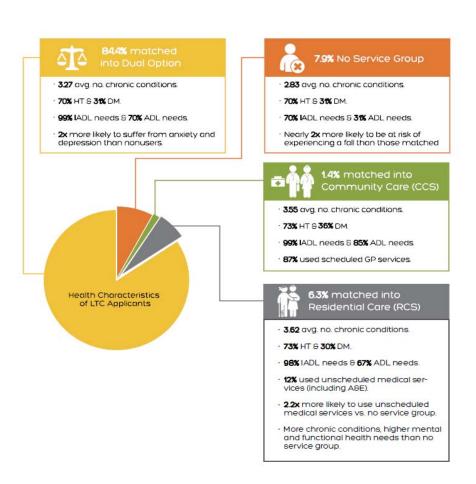


with a primary school education level and below



99% health/social care services and



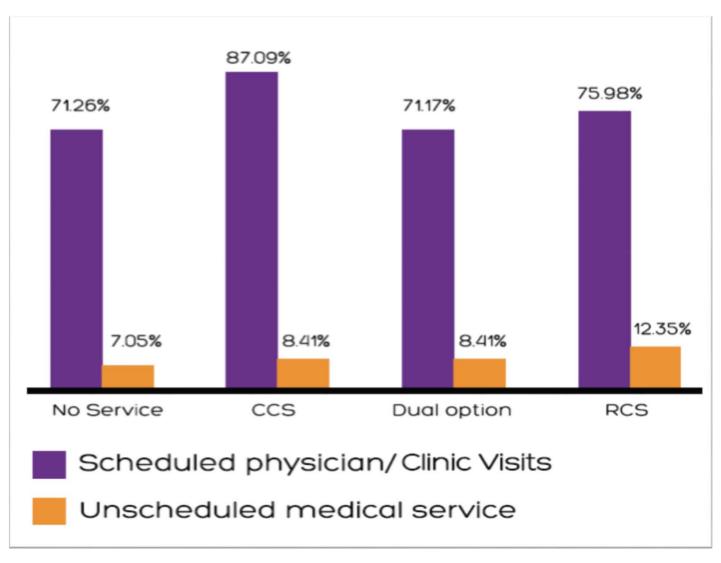


Source: Our Hong Kong Foundation





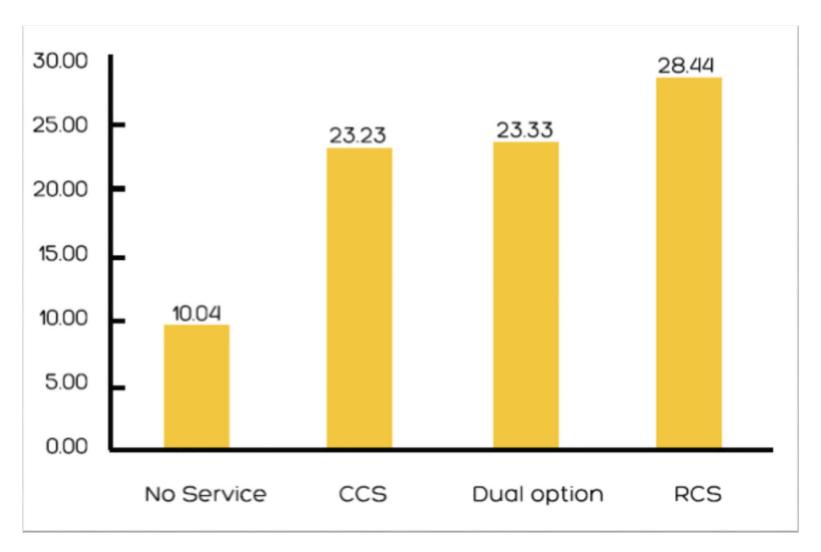
Utilization of Healthcare Services







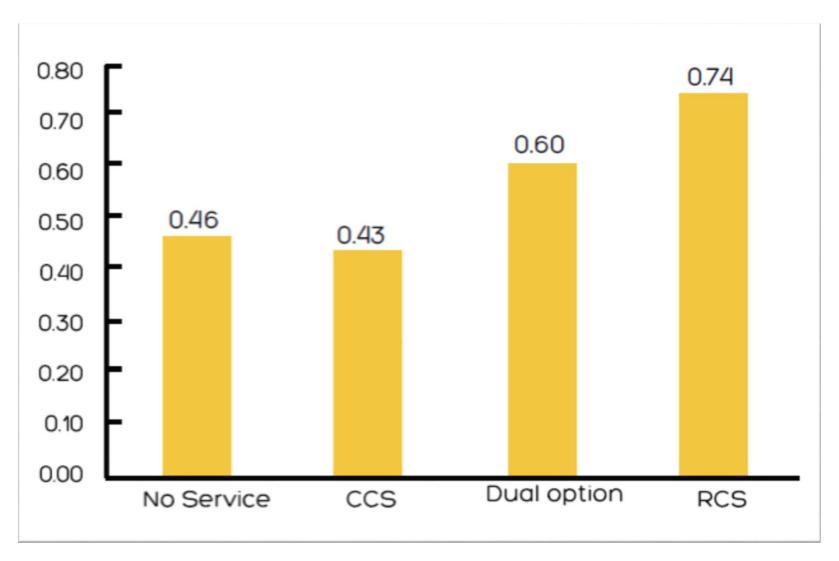
Index of Functional Health (IADLs and ADLs)







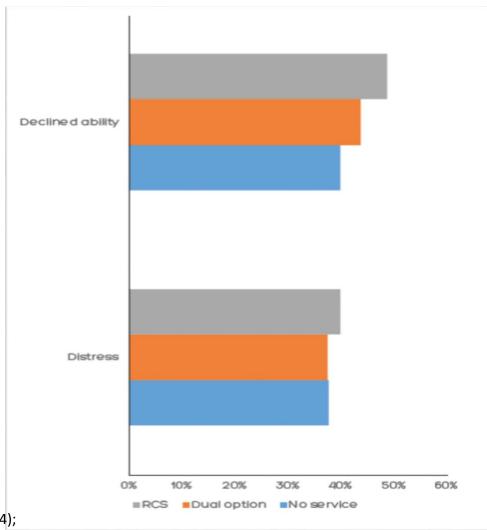
Index of Mental Health Needs







Psychological Status of Primary Caregivers of Older People



Date source:

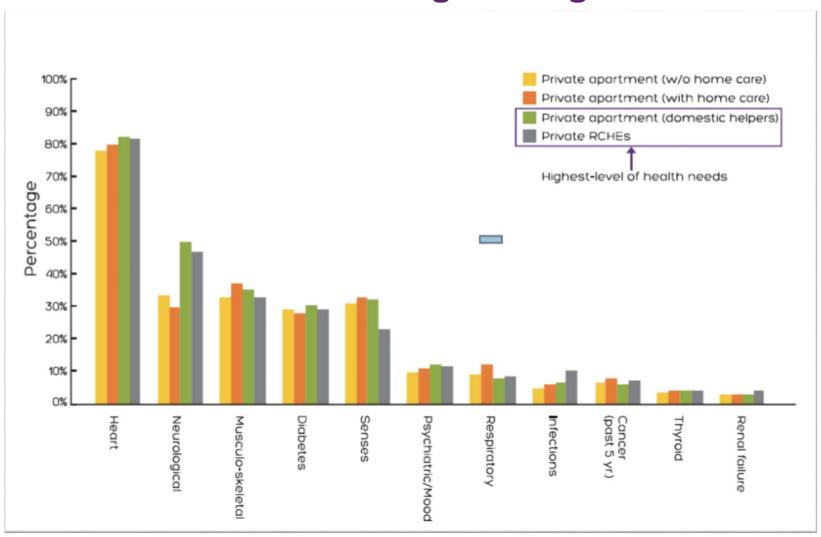
Social Work Department (2013-2014);

Our Hong Kong Foundation





Health Needs in Applicants for Long Term Care with Different Living Arrangements





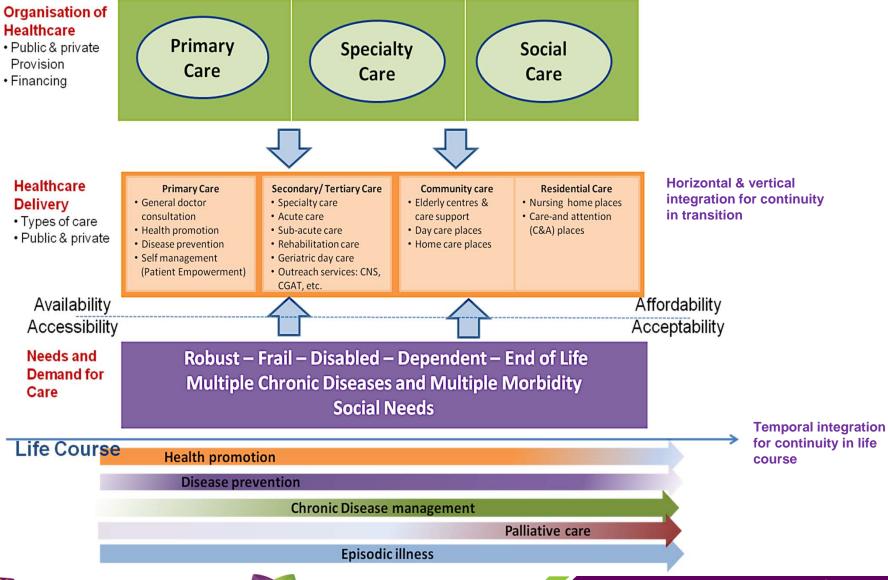






Health System Transformation to be "Fit-for-purpose"

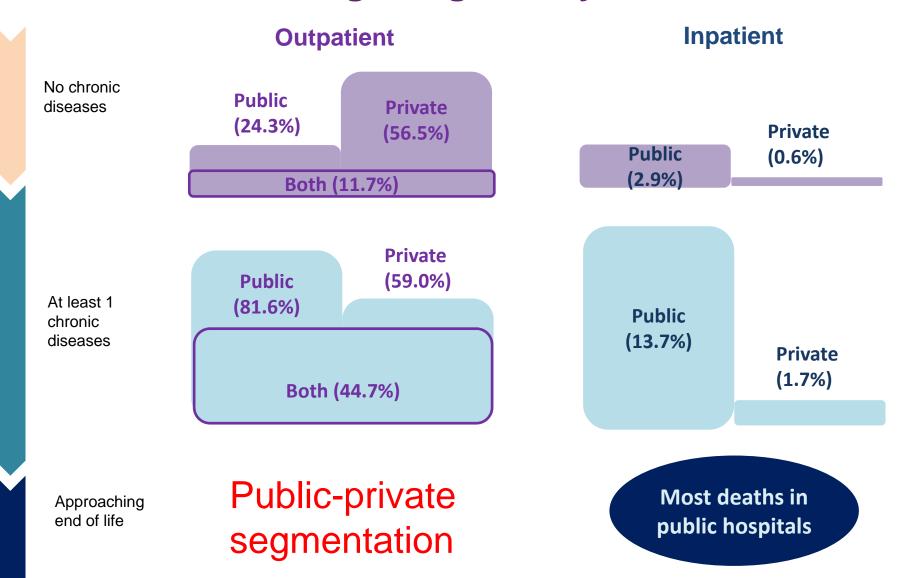
Healthcare Delivery System







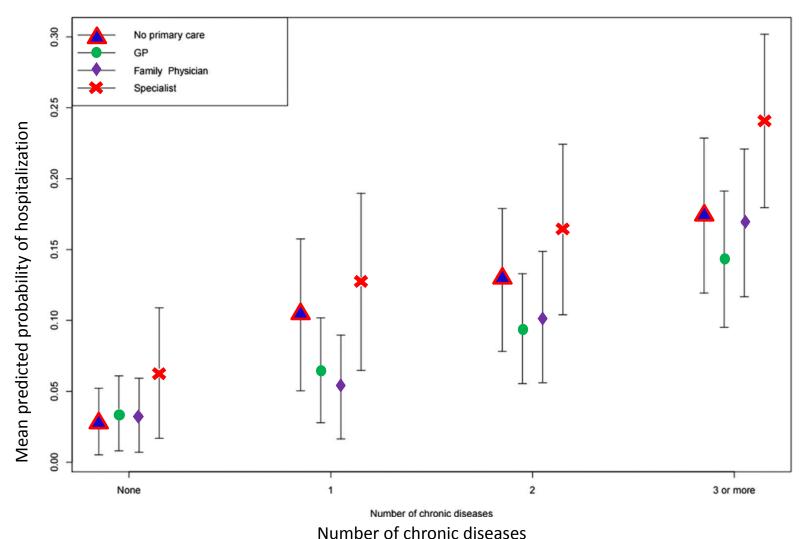
Hong Kong Elderly







Impact on Hospitalisations Associated with Chronic Diseases is Modified by Sources of Care



Source: Chung R et al. <u>Sci Rep</u>. 2016; 6: 29758 采进由立上奥

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Community Care and Support Services in Hong Kong

Community Care

Day Care Centre for the Elderly (DEs/DCUs)

Integrated Home Care Services (IHCS)

Enhanced Home and Community Care Services (EHCCS)

Community Support

Neighbourhood Elderly Centre (NEC)

District Elderly Community Centre (DECC)





Community Care and Support Services in Hong Kong

Number of Centres

Day Care Centre for the Elderly (DEs/DCUs)	76
Neighbourhood Elderly Centre (NEC)	169
District Elderly Community Centre (DECC)	41

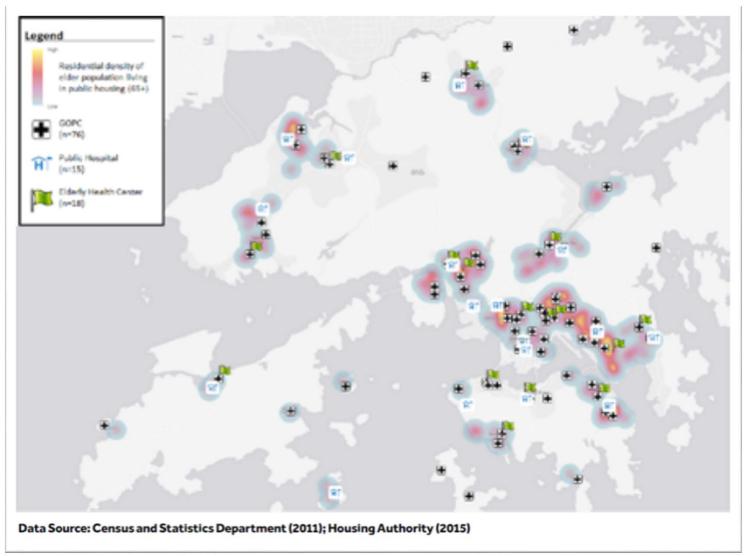




Districts and Organisations under HA and SWD

Districts	Clusters under HA		Welfare Offices under SWD
Eastern	Hong Kong East		Eastern and Wan Chai District Social Welfare Office
Wan Chai			Eastern and Wan Chai District Social Welfare Office
Islands	Lantau Island: Kowloon West	Other Islands: Hong Kong East	
Central and Western	Hong Kong West		Central Western, Southern and Islands Welfare Office
Southern			
Yau Tsim Mong	Kowloon Central		Kowloon City and Yau Tsim Mong Welfare Office
Kowloon City			Rowloon City and fau Isini Mong Wenare Office
Wong Tai Sin			Wong Tai Sin and Sai Kung District Social Welfare Office
Kwun Tong	Kowloon East		Kwun Tong District Social Welfare Office
Sai Kung			Wong Tai Sin and Sai Kung District Social Welfare Office
Sum Shui Po	Kowloon West		Sham Shui Po District Social Welfare Office
Kwai Tsing			Tourn Man and Kurai Toing District Social Wolfare Offi
Tsuen Wan			Tsuen Wan and Kwai Tsing District Social Welfare Office
Sha Tin	New Territories East		Shatin District Social Welfare Office
Tai Po			Toi Do and North District Cosial Walford Office
North			Tai Po and North District Social Welfare Office
Tuen Mun	New Territories West		Tuen Mun District Social Welfare Office
Yuen Long			Yuen Long District Social Welfare Office 24

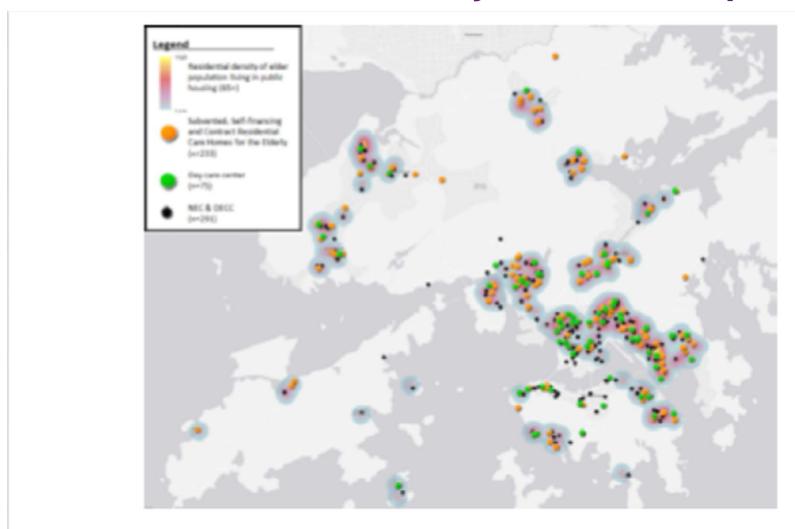
Location of Primary Care Service Facilities vs Residential Density of Older People in Public Housing







Distribution of Long Term Care Services vs Residential Density of Older People











Recommended Service Model Components for System-wide, Hospital and Community Integrated Care

Recommended model: System integration via primary care-led hubs and community networks

1: Enabling policies & shared values

3: Multi- and inter-disciplinary services

5: Care for patients with dementia

2: Training and education

4: Shared medical or service use records

Hospital and inpatient network

- 6: Screening and needs assessments for care planning
- 7: A&E multidisciplinary community referral (MCR)
- 8: Inpatient assessment and discharge support team (ADST)
- 9: Medical support for community care homes

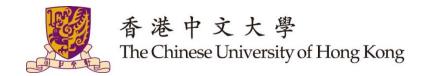
Primary care hub and community network

- 10: Enhanced community manpower and skills
- 11: Public-private primary care coordination
- 12: Equitable service access
- 13: Patient centered care, community engagement and caregiver support

EOL care for terminal illness and life-limiting conditions











Community-centric Health System

- Population approach
- Community-based hubs
- Person(alised) specific
- Integrated care



Definition of Community

"A community is a group of people who have common characteristics or interests. Communities can be defined by: geographical location, race, ethnicity, age, occupation, a shared interest or affinity (such as religion and faith) or other common bonds, such as health need or disadvantage"

Source: The National Institute for Health and Care Excellence (NICE)







Elements of Sense of Community & their Hypothesised Relationships

1. Membership

- Boundaries: Common symbol system

Sense of belonging and identification

Emotional safety: Personal investment

2. Influence

- Member openness to influence ← → power of member to influence
- Member need for consensual validation community's need for conformity

3. Integration and fulfillment of needs

- Degree communities successfully facilitate person-environment fit

4. Shared emotional connection

- Shared emotional connection
- High-quality interaction

Source: McMillan DW, Chavis DM (1986). Sense of community: a definition and theory. Journal of Community Psychology





Definition and Theory of Sense of Community

- Territorial and geographical
- "Relational" "Quality of character of human relationship"

Definition has 4 elements

- Membership feeling of belonging or of sharing a sense of personal relatedness
- Influence sense of mattering, of making a difference to a group and of the group mattering to its members
- Reinforcement integration and fulfillment of needs
- Shared emotional connection commitment and belief that members shared and will share history, common places, time together, and similar experiences

Source: McMillan DW, Chavis DM (1986). Sense of community: a definition and theory. Journal of Community Psychology





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Theory of Community Well-being

- Communities are diverse
- Communities of place and communities of interest
- Community wellbeing and individual wellbeing are linked
- Community wellbeing concerns social relationships between people
- Interventions can influence communities
- Community conditions affect wellbeing
- Interventions by government and organisations can help improve wellbeing
- Community wellbeing depends on people, places and power

Source: South JAS, Bagnall A-M (2016) Building community wellbeing – an initial theory of change







Building Communities

- Bonding social capital closer connections between people characterized by strong bonds e.g. among family members & close friends
- Bridging social capital distant connections between people characterized by weaker cross-cutting ties e.g. business associates & acquaintance
- Linking social capital connections with people in positions of power

Source: Institute of Public Care Community Building (2010)





Empowering and Engaging People

- Purpose is to unlock community and individual resources for action at all levels
- Empower individuals to make effective decisions about their own health and co-producers of health services
- Communities are enabled to become actively engaged in coproducing healthy environments, providing care services in partnership with the health sector

Source: WHO (2015) WHO Global Strategy on People-centered and Integrated Health Services





Empowering and Engaging People& Co-production of Health

Empowering people

- supporting people and communities to take control of their own health needs
- uptake of healthier behaviours
- ability of people to self-manage their own illnesses
- changes in people's living environments
- empowerment at different levels is mutually reinforcing level of individual, carer and the family or household specific population group / community

Source: WHO (2015) WHO Global Strategy on People-centered and Integrated Health Services

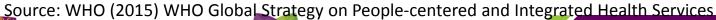




Empowering and Engaging People & Co-production of Health

Engaging community

- engaging people and communities in the design, planning and delivery of health service
- participate in strategic decision-making on how, where and on what health resources should be spent
- enabling choices about care and treatment options
- community's capacity to self-organized and generate changes in their living environment
- providing opportunities for communities to develop knowledge, skills and confidence
- support public policies that promote health services that better meet their needs







Empowering and Engaging People& Co-production of Health

Fostering co-production

- care delivered in an equal and reciprocal relationship between clinical and non-clinical professions & the individuals using care services, their families, carers and communities
- a long-term relationship between people, providers and health systems where information, decision-making and service delivery become shared

Source: WHO (2015) WHO Global Strategy on People-centered and Integrated Health Services





MCP – Multispecialty, Community-based, Provider

- 1. A new care model of integrated providers
- 2. Combines the delivery of primary care and community-based health and care services
- 3. 'Care-hubs' of integrated teams
- 4. Serves a community of 30-50,000 people
- 5. Defining feature is the registered list
- 6. Also covers the specified unregistered population
- 7. Single, whole-population budget for all the services

Source: NHS (2016) New care models





MCP Care Model Operated at 4 Different Levels:

- Whole population level aims to address determinants of health and tackle inequalities, builds social capital by mobilizing citizens, local employers and the voluntary sector
- 2. For people with self-limited conditions, a more coherent and effective local network of urgent care
- People with ongoing care needs provide a broader ranges of services in the community more joined-up between primary, community, social and acute care services, physical and mental health
- 4. Patients with very high needs and costs, an "extensive care" service



