香港人口轉化為「全世界最長壽」的解讀

Hong Kong's journey to become the world's longest living population



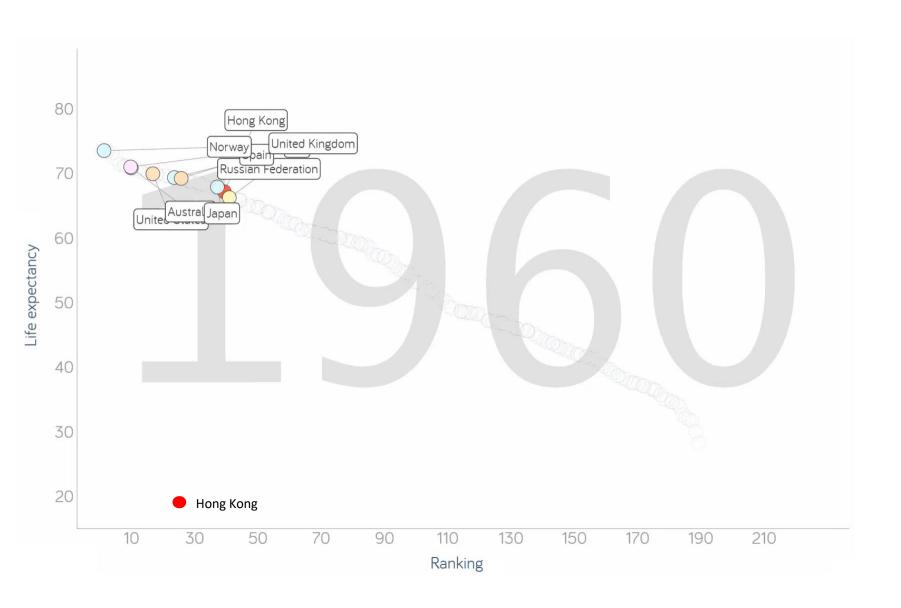












Source: Gapminder

When

life expectancy gains in Hong Kong took place

Joinpoint analysis

Who and What

age- and disease-groups contributed

Arriaga's decomposition

Life Expectancy

Why

Truncated cross-sectional average of life (TCAL)

Smoking-attributable mortality



Comparative mortality study

Truncated cross-sectional

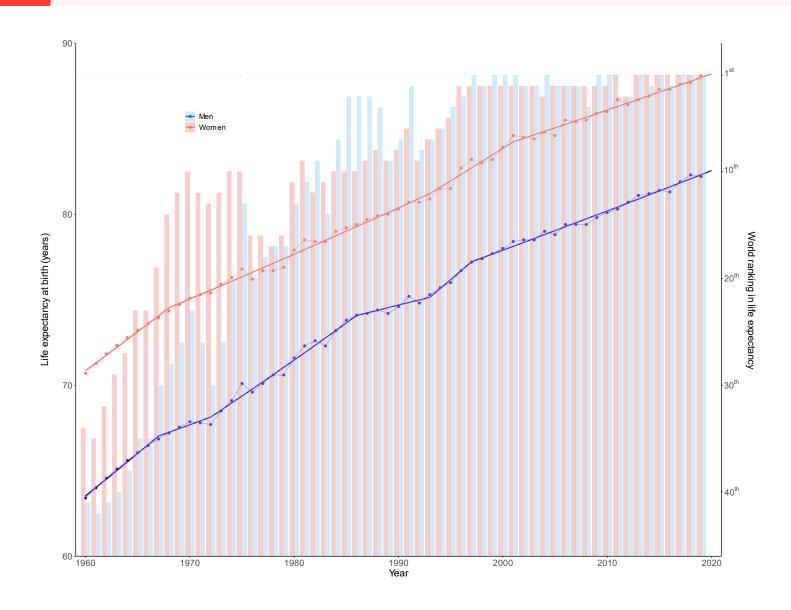


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Life expectancy of migrants vs. natives



Life Expectancy and Ranking



Leveraging big data sources

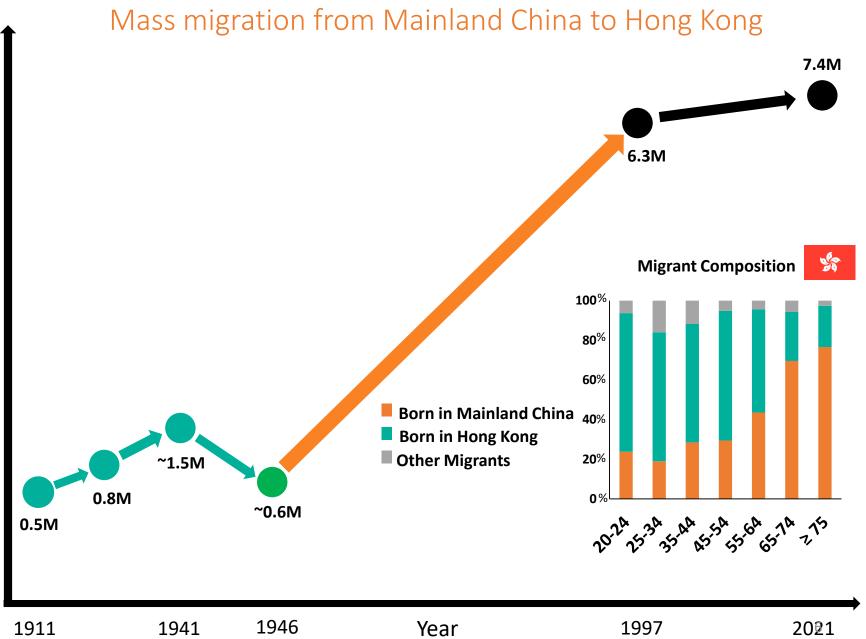


1,424,522
death records from Hong Kong's
Census & Statistics Department
since 1979



>30 countries in the Human Mortality Database & WHO Mortality Database since 1835

263 million deaths around the world



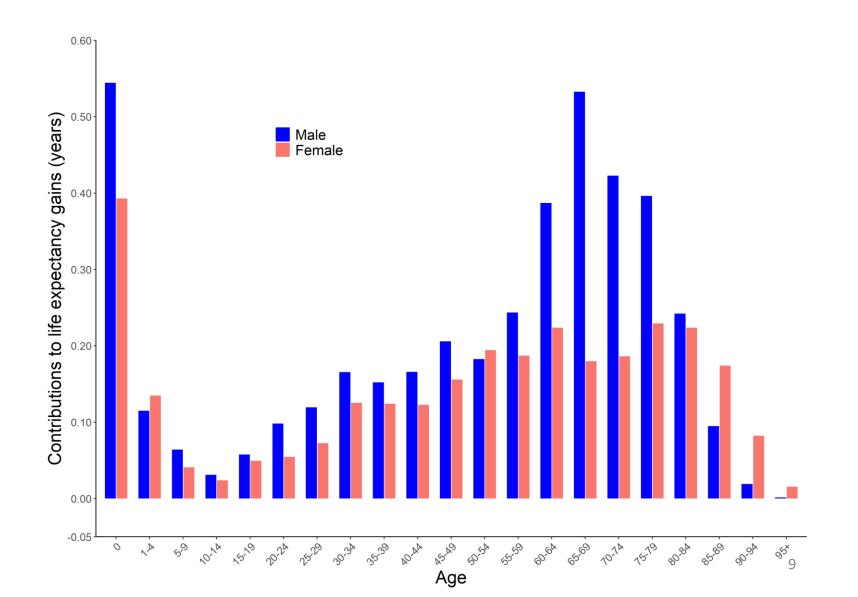
Life expectancy in Hong Kong by migrant status in 2016

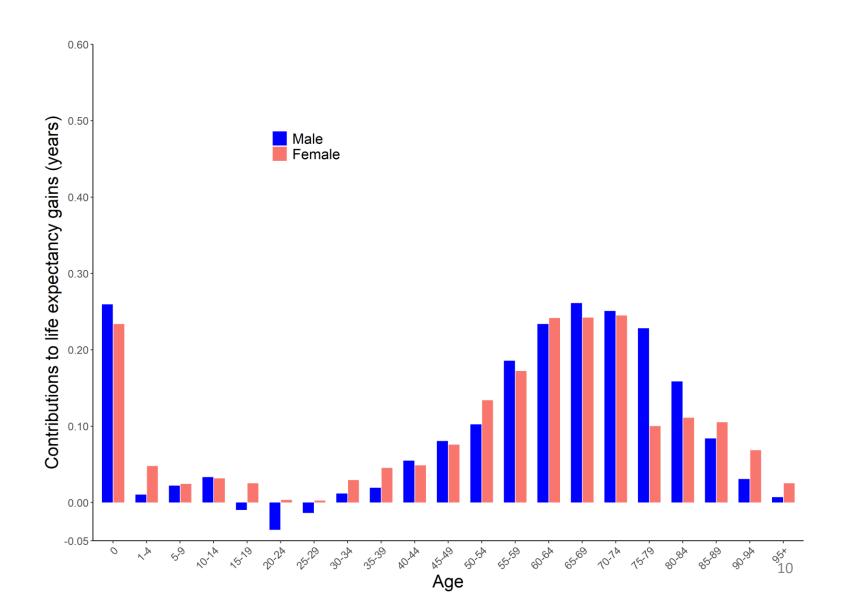
Region	Life expectancy at birth		Life expectancy at age 50	
	Male	Female	Male	Female
Hong Kong				
Overall	81-27	87-30	32·76	38·28
Natives	84-65	89-60	36·15	40.63
All migrants	77-93	85·68	31·57	37·29
Migrants from Mainland China	77:11	83·01	31·11	36⋅90
Japan	80-99	87·17	32·56	38·24
UK	79-22	82.88	31·34	34·29
US	76∙36	81-36	30.04	33·64
18 OECD high-income countries*	79·40	84.03	31·29	35·24
*Australia, Austria, Belgium, Canada, Denmark, Finland, France, Cand US	Germany, Italy, Japan, t	he Netherlands, Norwa	y, Portugal, Spain, Swed	len, Switzerland, UK

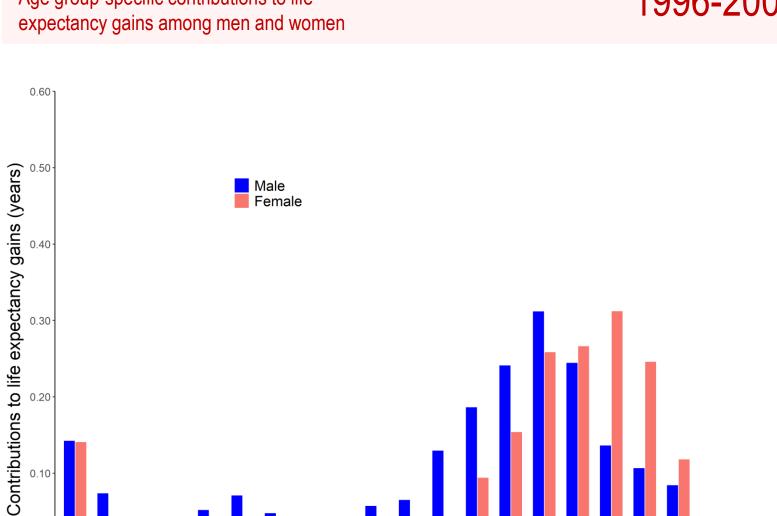
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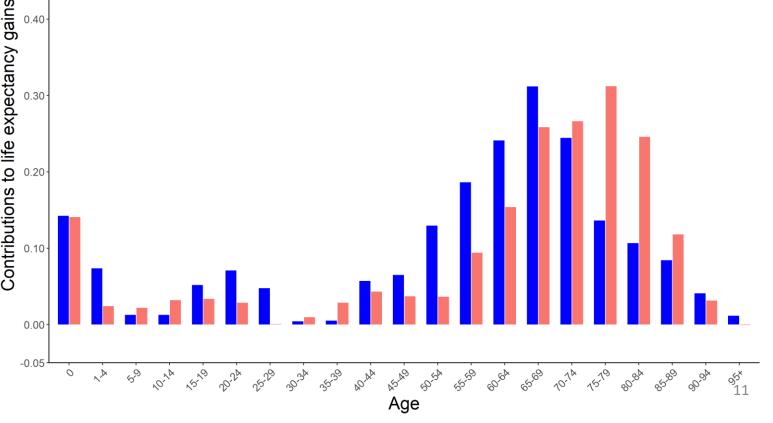
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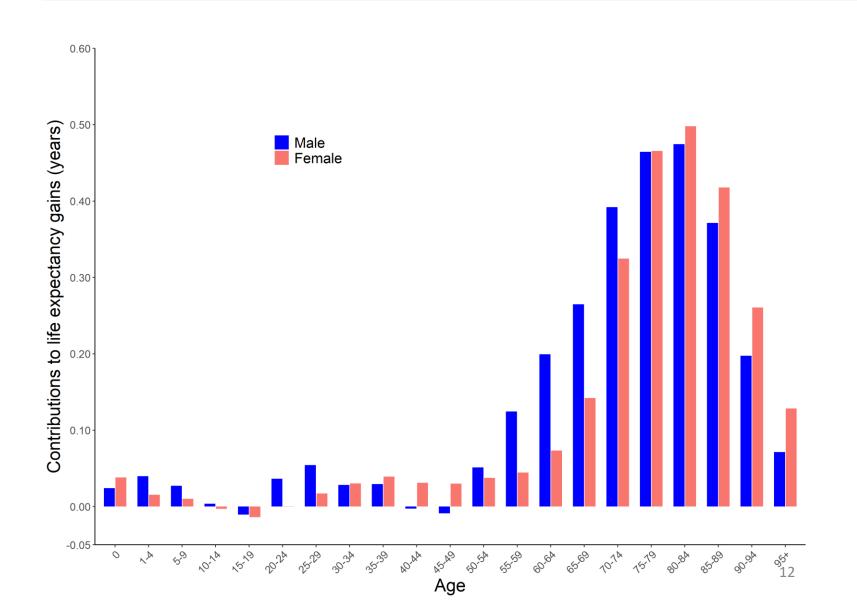
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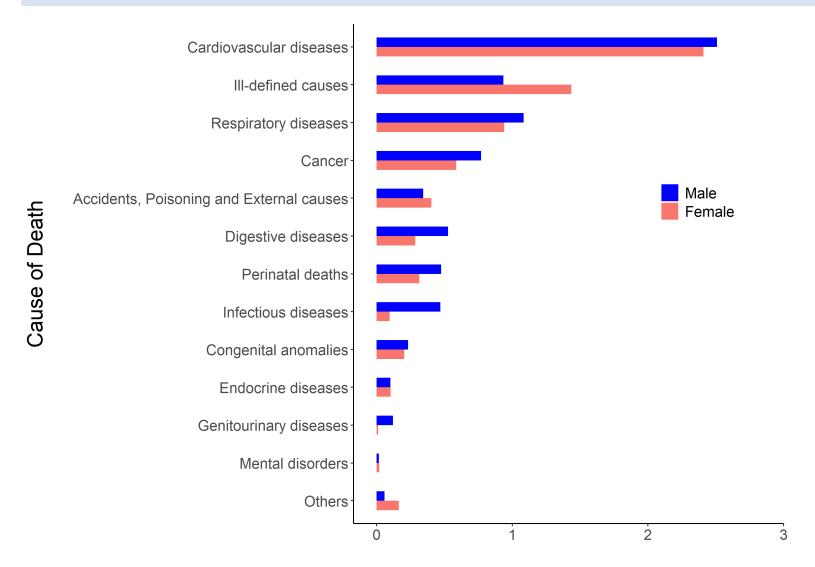






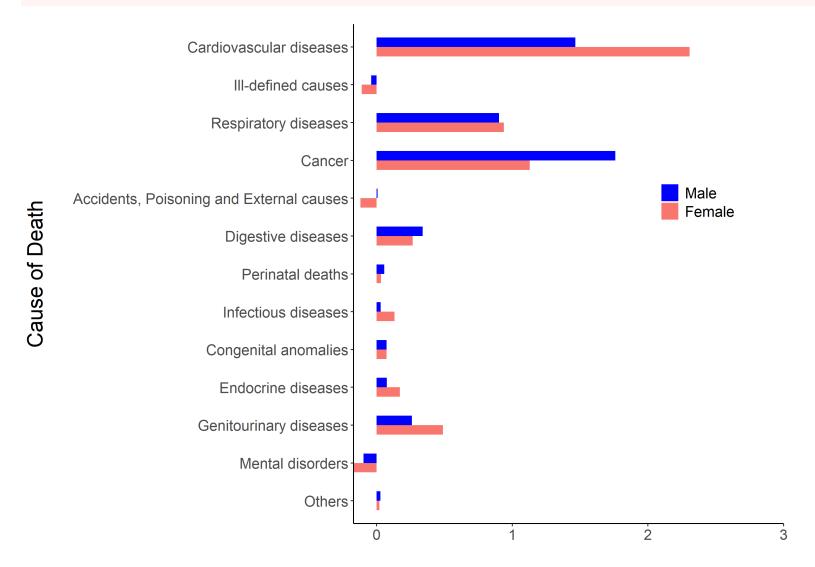


Disease group-specific contributions to life expectancy gains among men and women



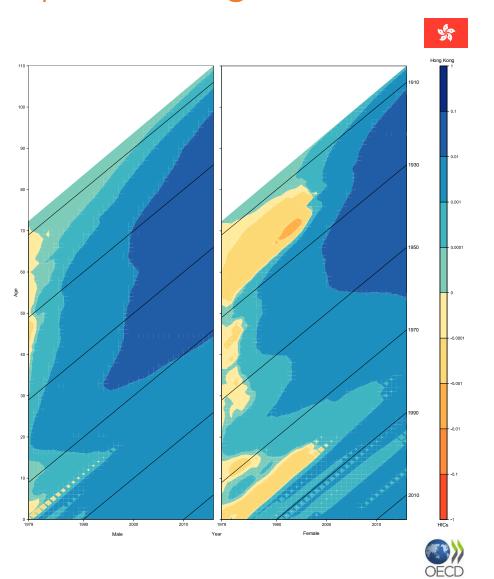
Contributions to life expectancy gains (years)

Disease group-specific contributions to life expectancy gains among men and women



Contributions to life expectancy gains (years)

Relative gains in longevity in Hong Kong compared to high-income countries



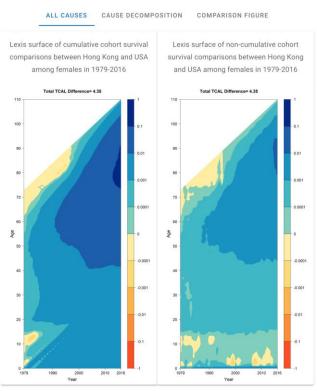


Truncated Cross-sectional Average Length of Life (TCAL)

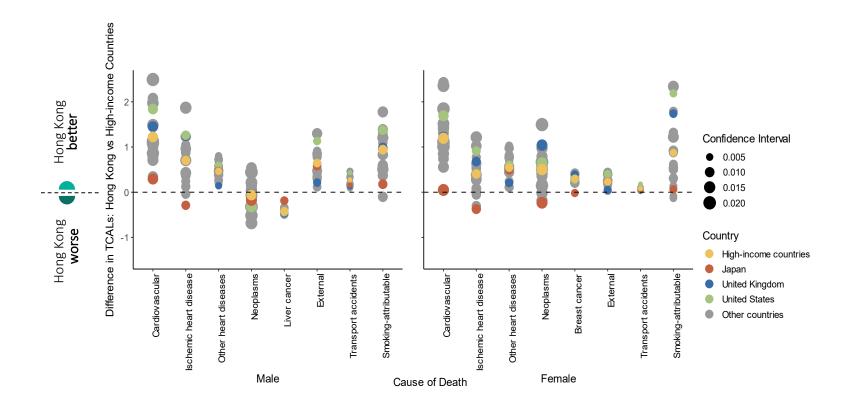


Interactive data visualisation

https://longevity.sph.hku.hk/



Note: The blue areas correspond to the survival advantage in Hong Kong, while the yellow/red areas correspond to the survival advantage in USA. The cause decomposition of TCAL comparison was analyzed over ICD-9 and ICD-10 codes.



Hong Kong's survival advantage due to:-



- Lowest mortality for cardiovascular diseases
- One of the lowest mortality for neoplasms in females
- Lowest mortality for transport accidents

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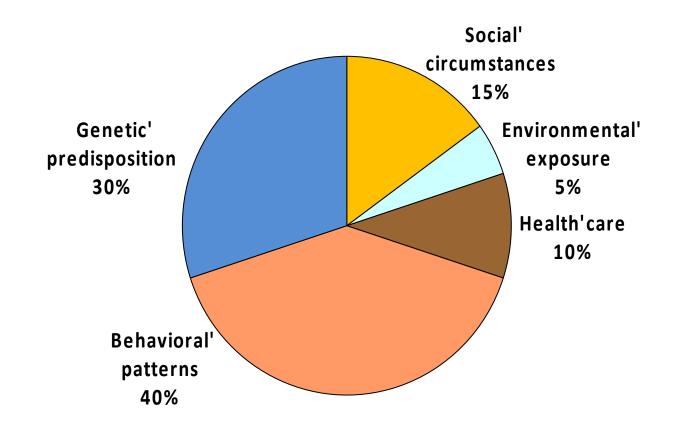
Smoking-attributable mortality



Life expectancy of migrants vs. natives

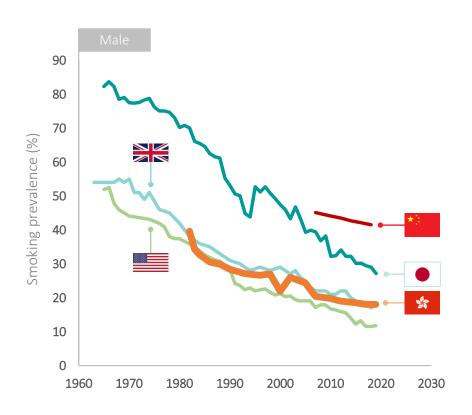


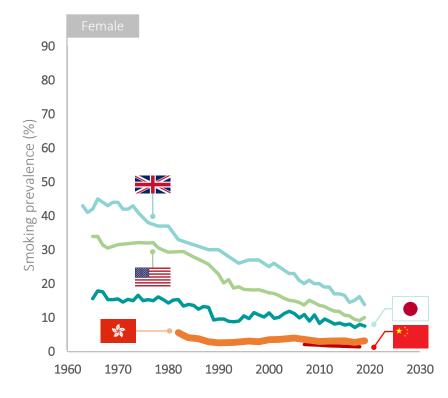
Contributions to premature mortality



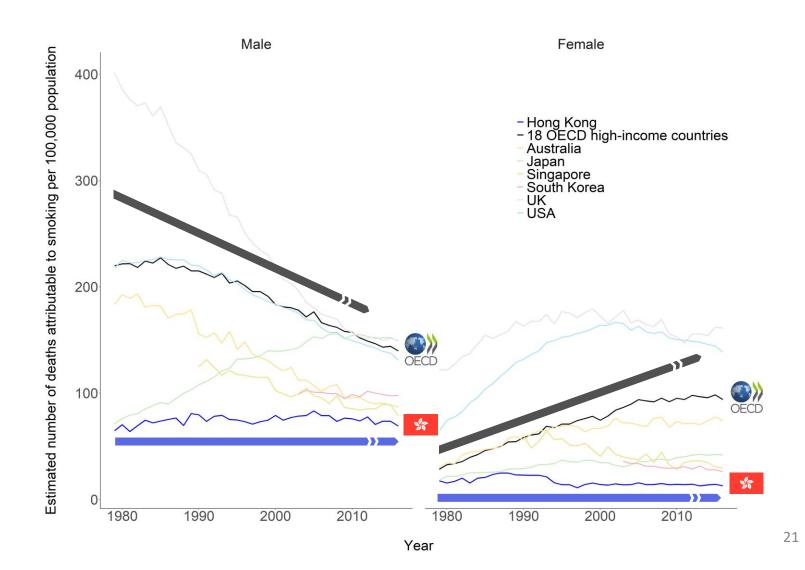
Adapted from: McGinnis JM & Foege WH. Actual causes of death in the United States. JAMA 1993; 270(18):2207-12 (Nov 10); McGinnis JM, Williams-Russo P, & Knickman JR. The case for more active policy attention to health promotion. Health Affairs 2002; 21(2):78-93 (Mar).

- On average, smokers die 10 years earlier than non-smokers
- Smoking is the single largest cause of preventable death

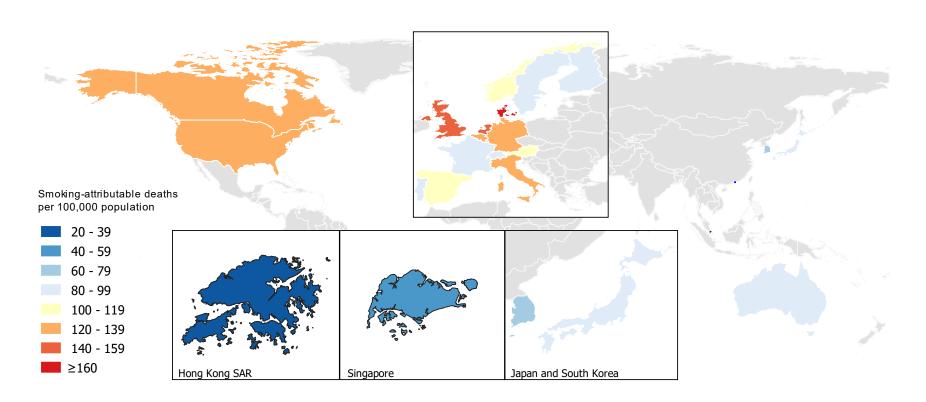




Smoking-attributable mortality in Hong Kong and high-income settings



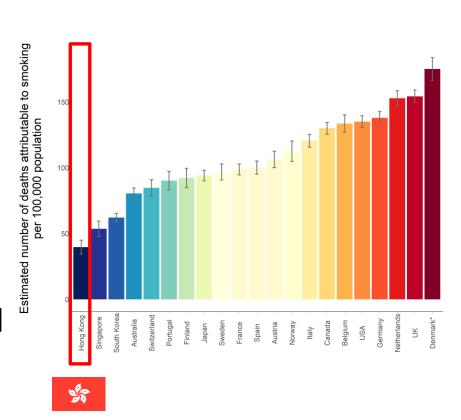
Number of smoking-attributable deaths (per 100,000 population per year)





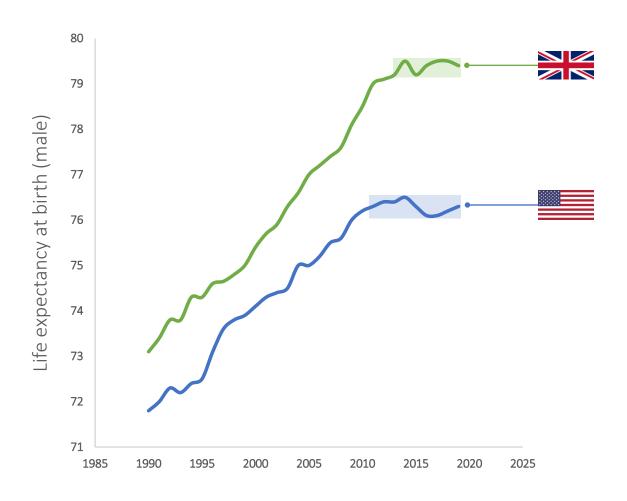
Why lower cardiovascular and female cancer mortality?

- Underpinned by Hong Kong's successful tobacco control
- HK achieved the lowest smoking-attributable mortality in high-income settings
- Contributed to 50.5% and 34.8% of Hong Kong's survival advantage over males and females in high-income countries, respectively.



Implications for Smoking (Public Health) Amendment Bill

To maintain Hong Kong's world-leading life expectancy, stronger tobacco control policies are needed.



Implications for Smoking (Public Health) Amendment Bill

Allowing Heated Tobacco Products (HTPs) will lead to:-

- Rapid re-normalisation of tobacco use
- Substantial increase in youth smoking of HTPs and cigarettes
- Rising morbidity and mortality.

Implications for Smoking (Public Health) Amendment Bill

 Heated Tobacco Products and electronic cigarettes are very harmful but very attractive to young people

 Parents, education, health and social welfare sectors and a great majority of the population have provided the strongest support for a total ban of heated tobacco products

 Urge the Legislative Council to support a total ban as soon as possible