

**Table 1. Premature deaths in Hong Kong 2005-2009**

<b>Premature mortality</b>	<b>all</b>	<b>%</b>	<b>male</b>	<b>%</b>	<b>female</b>	<b>%</b>
Type I (infectious, maternal, perinatal and nutritional conditions)	6,711	8.3	4,838	9.0	1,873	6.9
Type II (non-communicable conditions)	66,844	82.8	44,067	82.0	22,777	84.3
Type III (injuries)	7,215	8.9	4,835	9.0	2,380	8.8
All causes	80,770	100.0	53,740	100.0	27,030	100.0

For classification of mortality into categories of death causes, see WHO 2008. Source: Authors' calculations on data from Hong Kong Census and Statistics Department.

**Table 2. Factors describing small area characteristics, used as control variables in models**

<b>Variables from HK Census Department<sup>a)</sup></b>	<b>n'hood affluence</b>	<b>housing instability</b>	<b>elderly residents</b>	<b>social fragmentation (reversed)</b>
age < 15	-.055	-.106	-.772	.312
age ≥ 65	-.336	.038	.809	.001
median income <sup>b)</sup>	.756	-.292	-.118	.276
high status occupations	.888	-.164	-.150	-.070
unemployment	-.627	.423	-.097	-.078
high education	.969	-.208	-.073	.064
single household	-.025	-.288	.240	-.570
single elderly household <sup>c)</sup>	-.594	.101	.335	-.233
household size ≥ 5	.219	-.254	-.080	.910
rented accommodation	-.197	.706	.042	-.044
crowding <sup>b)</sup>	-.375	.906	.172	.052
Eigenvalue	3.39	1.82	1.51	1.40
Proportion Variance	.308	.166	.137	.127
Cumulative Variance	.308	.474	.611	.738
<b>HK Lands Department<sup>e)</sup></b>	<b>centrality (reversed)</b>	<b>HK Lands Department<sup>f)</sup></b>		<b>land use intensity</b>
d. to clinics	.911	floor area ratio		.998
d. to hospitals	.752	surface coverage ratio		.941
d. to markets	.912	open space ratio		-.999
d. to supermarkets	.934	net population density		.593
d. to recreation centres	.905			
d. to parks	.853			
d. to restgardens	.766			
d. to sports grounds	.840			
Eigenvalue	5.94	Eigenvalue		3.23
Proportion Variance	.742	Proportion Variance		.808
<b>Other variables from HK Census Department</b>				
n'hood daily fluctuation <sup>d)</sup>	control variable (not used in factor analysis)			
public housing <sup>c)</sup>	exposure of interest (not used in factor analysis)			
a) all variables transformed to z score of location quotient, except where noted • b) z score of absolute values • c) z score of log-transformed location quotient • d) defined as people not working in the same neighbourhood • e) all variables z score of log-transformed distance value • f) z scores of absolute values				

**Table 3. Contextualisation of premature mortality by type of risk in Hong Kong (2005-2009)<sup>a)</sup>**

	FEMALE unadjust. adjusted						MALE unadjusted adjusted					
	mean	lower	upper	mean	lower	upper	mean	lower	upper	mean	lower	upper
<b>TYPE I PMR</b>	(n=1,873)						(n=4,838)					
1 n'hood affluence	-.140	-.241	-.043	-.234	-.359	-.106	-.205	-.315	-.097	-.283	-.423	-.140
2 housing instability	.032	-.045	.110	-.015	-.139	.110	.071	-.016	.160	.054	-.099	.211
3 elderly residents	.115	.018	.211	.099	.008	.189	.046	-.061	.150	-.003	-.107	.098
4 social fragmentation	.100	-.005	.207	.055	-.062	.173	.079	-.026	.184	.002	-.115	.119
5 land use intensity	.127	.007	.249	.054	-.110	.216	.087	-.032	.209	-.062	-.255	.129
6 centrality	.207	.083	.332	.146	-.030	.324	.200	.083	.322	.246	.052	.444
7 n'hood daily fluctuation	-.036	-.117	.044	.064	-.048	.178	-.085	-.174	.003	.059	-.066	.184
8 public housing	.015	-.048	.079	-.026	-.116	.065	.021	-.055	.099	-.107	-.225	.008
9 Intercept				-.100	-.183	-.021				-.152	-.232	-.074
<b>TYPE II PMR</b>	(n=22,777)						(n=44,067)					
1 n'hood affluence	-.082	-.139	-.026	-.129	-.207	-.051	-.169	-.246	-.095	-.183	-.273	-.092
2 housing instability	.089	.039	.140	.150	.056	.246	.147	.083	.211	.167	.056	.279
3 elderly residents	.018	-.042	.077	.003	-.055	.061	.049	-.027	.125	.018	-.049	.084
4 social fragmentation	.047	-.010	.105	.031	-.031	.093	.031	-.040	.102	-.021	-.089	.046
5 land use intensity	.043	-.020	.109	-.114	-.224	-.004	.053	-.028	.138	-.189	-.316	-.063
6 centrality	.127	.060	.197	.161	.052	.272	.195	.114	.280	.273	.149	.399
7 n'hood daily fluctuation	-.038	-.088	.013	.115	.041	.188	-.118	-.181	-.056	.064	-.020	.148
8 public housing	.043	-.002	.089	-.064	-.133	.005	.088	.028	.149	-.098	-.182	-.014
9 Intercept				-.115	-.161	-.070				-.160	-.214	-.108
<b>TYPE III PMR</b>	(n=2,380)						(n=4,835)					
1 n'hood affluence	-.188	-.289	-.094	-.328	-.439	-.216	-.311	-.411	-.219	-.404	-.513	-.293
2 housing instability	.101	.026	.178	.123	.006	.242	.129	.049	.211	.100	-.020	.222
3 elderly residents	.133	.043	.223	.078	-.006	.161	.217	.119	.313	.149	.071	.226
4 social fragmentation	.128	.030	.227	.066	-.043	.175	.113	.012	.216	.108	.011	.207
5 land use intensity	.175	.069	.287	.035	-.112	.182	.070	-.042	.190	-.025	-.172	.121
6 centrality	.273	.159	.391	.164	.005	.325	.199	.089	.314	.134	-.012	.281
7 n'hood daily fluctuation	-.098	-.176	-.022	.076	-.026	.178	-.168	-.249	-.088	.071	-.027	.169
8 public housing	.006	-.055	.068	-.140	-.224	-.056	.092	.021	.163	-.067	-.156	.021
9 Intercept				-.145	-.223	-.071				-.180	-.246	-.115
<b>model fits<sup>b)</sup></b>												
TYPE I	ΔDIC=	-1.3	ΔpD=	-18.8	Var=	.685	ΔDIC=	3.1	ΔpD=	-6.27	Var=	.256
TYPE II	ΔDIC=	-2.8	ΔpD=	-5.41	Var=	.218	ΔDIC=	4.9	ΔpD=	-6.0	Var=	.350
TYPE III	ΔDIC=	-21.8	ΔpD=	-28.4	Var=	.756	ΔDIC=	-6.5	ΔpD=	-30.6	Var=	.612

a) Authors' calculations based on data from Hong Kong Census & Statistics Department – Vital Events Register • b) Model fits were assessed by comparison to models without covariates (ΔDIC=DIC difference, ΔpD = difference of effective number of parameters) and estimation of variance accounted for (Var).