

Supplementary material:

1. Preventable and non-preventable causes of death classification and its ICD-10 codes.

	Causes of death	ICD-10 codes	Typology
Preventable	Cancer of oral cavity, pharynx, and esophagus	C00-C15	B
	Cancer larynx	C32	B
	Cancer of trachea, bronchus and lung	C33-C34	B
	Diabetes Mellitus	E10-E14	B
	Chronic Obstructive Pulmonary Disease	J40-J44, J47	B
	Cancer of breast	C50	M
	Cancer of prostate	C61	M
	Hodgkin's disease and leukemia	C81, C91-C95	M
	Appendicitis, hernia and peptic ulcer	K25–K28, K35–K38, K40–K46, K56	M
	Cancer of cervix	C53	B/M
	Hypertensive disease	I10-I15	B/M
	Ischemic heart disease	I20-I25	B/M
	Cerebrovascular disease	I60-I69	B/M
	Road traffic accidents	V01-V89, Y85	I
	Accidental falls	W00-W19	I
	Suicide	X60-X84, Y87.0	I
	Mental and behavioral disorders due to use of psychotropic	F10, F11-F16, F18, F19	A
	Alcoholic cardiomyopathy	I42.6	A
	Pancreatitis	K85-K86.0	A
	Accidental poisoning by and exposure to certain substances	X41, X42, X44, X45	P
Certain infectious and parasitic diseases	A00-B99, R75, U04.9	IP	
Non-Preventable	Cancer of stomach	C16	N
	Cancer of colorectum	C18-C21	N
	Cancer of liver	C22.0, C22.1, C22.9	N
	Cancer of kidney and bladder	C64-C68	N
	Cancer of pancreas	C25	N
	Other liver and gall bladder diseases	K71-K79, K84, K86.1-K87	N
Total mortality	All-causes of death	All-Codes from ICD-10	

Adapted from Mackenbach et al. (2014).

B=Prevention through behavioral change; **M**= Prevention by medical intervention; **B/M**= Prevention through behavioral change + medical intervention; **I**=injuries; **A**= related to alcohol and other substances consumption; **P**= Poisoning; **IP**= infectious and parasitic diseases; **N**=No preventable causes of death.

2. Observed and expected mortality among men and women (20 -69 years old) living in experimental and comparison areas by period.

Comparison neighbourhoods								
	Men				Women			
	2002-2004		2008-2010		2002-2004		2008-2010	
	O	E	O	E	O	E	O	E
Preventable (all)	705	689.21	643	725.69	227	252.87	227	263.86
Preventable-restricted	366	361.51	338	377.85	122	128.77	97	132.72
No-Preventable	218	198.15	196	212.04	78	83.72	97	88.19
Total	1337	1263.22	1210	1333.36	533	581.19	575	606.07
Experimental neighbourhoods (1 project)								
	Men				Women			
	2002-2004		2008-2010		2002-2004		2008-2010	
	O	E	O	E	O	E	O	E
Preventable (all)	683	484.28	561	496.87	227	177.27	188	179.47
Preventable-restricted	366	254.92	288	261.13	129	90.87	100	90.59
No-Preventable	181	138.54	183	143.81	56	58.72	63	59.63
Total	1197	886.89	1061	912.08	500	408.11	452	411.95
Experimental neighbourhoods (project overlap)								
	Men				Women			
	2002-2004		2008-2010		2002-2004		2008-2010	
	O	E	O	E	O	E	O	E
Preventable (all)	430	270.73	351	281.41	151	99.58	101	100.63
Preventable-restricted	247	144.08	178	149.50	87	51.17	61	50.74
No-Preventable	120	76.51	108	80.49	39	32.76	44	33.09
Total	765	495.14	709	515.94	345	228.98	265	230.28

O: Observed mortality; E: Expected mortality.

3. Distribution of causes (%) on total mortality observed during 2002-2010 by neighborhood type.

Cause of death	Men			Women		
	Comparison (0 Project)	Experimental (1 Project)	Experimental (≥2 Project)	Comparison (0 Project)	Experimental (1 Project)	Experimental (≥2 Project)
Preventable (all)	52%	55%	54%	43%	45%	43%
Preventable-restricted	28%	29%	29%	20%	24%	24%
Less-preventable	16%	16%	16%	15%	13%	13%

Notice: the total percentage not sum 100% because there are causes of death not included in both groups.

4. Evolution of indicators between intervened and comparison areas.

	Comparison neighborhoods			Experimental neighborhoods (1 project)			Experimental neighborhoods (≥2 Project)		
	2001	2011	Differences (%)	2001	2011	Differences (%)	2001	2011	Differences (%)
Socioeconomic position (middle-class) (%)	47.6	53.2	5.6***	45.3	51.6	6.3***	45.9	51.5	5.6***
Buildings in good condition (%)	88.4	89.7	1.3	82.9	86.3	3.4	78.6	80.4	1.8
Dwellings in buildings with running water (%)	99.6	99.9	0.3**	98.4	99.7	1.3	99.0	99.8	0.8**
Homes without barriers (%)	19.3	35.4	16.1***	14.2	29.5	15.3***	18.5	38.8	20.3**
Young (aged 20-34) with compulsory education (% total)	81.8	88.3	6.5**	73.6	81.9	8.3**	69.3	76.2	7.0
Young (aged 20-34) with compulsory education (% women)	84.2	91.2	7.0***	75.3	85.8	10.4***	70.4	76.6	6.2
Young (aged 20-34) with a university education (% total)	19.9	25.1	5.2*	13.4	20.2	6.8*	12.6	16.1	3.5
Labor activity rate of women (%)	40.3	59.1	18.8***	38.4	57.9	19.5***	38.5	61.3	22.7***

Source: Spanish Census of Population and Housing 2001 and 2011.

*** p<0.001; ** p<0.01; p<0.05 from χ^2 test comparing 2001 and 2011 groups.