

Appendix Table 1: Detectable effect size* on differences between Italians and immigrants by means of Mortality Rate Ratios (MRR) by sex and different mortality rates.

Cohort	Type	All-cause mortality (rate ≈ 1-4/1,000)		Hypothetical cause- specific mortality (rate = 2/10,000)		Hypothetical cause- specific mortality (rate = 5/100,000)	
		MRR	MRR	MRR	MRR	MRR	MRR
		Males	Females	Males	Females	Males	Females
Turin	<i>Closed</i>	0.84	0.79	0.53	0.52	n/e	n/e
	<i>Open</i>	0.90	0.87	0.72	0.71	0.46	0.45
Reggio Emilia	<i>Closed</i>	0.65	0.53	n/e	n/e	n/e	n/e
	<i>Open</i>	0.82	0.75	0.46	0.44	n/e	n/e
Venice	<i>Closed</i>	0.69	0.57	n/e	n/e	n/e	n/e
	<i>Open</i> [§]	0.84	0.79	0.29	0.31	n/e	n/e
Florence	<i>Closed</i>	0.56	0.47	n/e	n/e	n/e	n/e
	<i>Open</i> [§]	0.83	0.79	0.44	0.44	n/e	n/e
Rome	<i>Closed</i>	0.85	0.84	0.56	0.61	n/e	0.25
	<i>Open</i> [§]	0.93	0.91	0.78	0.79	0.57	0.60
Pooled	<i>Closed</i>	0.92	0.90	0.73	0.75	0.49	0.51
	<i>Open</i>	0.96 ^{§§}	0.95 ^{§§}	0.86	0.87	0.73	0.74

* Estimation of the statistical power obtained using the software Gpower 3.1 and setting the following parameters: alfa = 0,05, beta = 0,2; total sample size: person years (observed and estimated); death rates in the reference population: death rates of Italians in the closed cohorts (follow-up 2001-2012); proportion of immigrants: person years.

[§] Estimation based on simulation.

^{§§} Estimation based on all-cause mortality rate = 2/1,000.

n/e: not estimable