



Supplement to:

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Supplemental Materials to “Social Inequalities in Bereavement across the Life Course: A Study of Four-Generation Kinship Networks in Sweden”

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Appendix A

Kin population by level of education and income quartile (Tables S1-S2)

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Appendix A. Kin population by level of education and income quartile

Table S1. Kin population by educational level, potential range of overcoverage and unreported deaths.

ISCED	N	YOB ¹	Not in death nor residence registers (NDR)				Not in death nor residence registers (NDR) (age above 90)		
			NDR (N)	NDR (%)	Age in 2020 ²	Last Yr. of obs ³	NDR (N)	NDR (%)	Age in 2020 ²
Grandmothers									
0-2	20461	1918	427	2,1	106	1982	413	2	107
3	57214	1918	1099	1,9	108	1984	1086	1,9	108
4-5	51949	1916	1123	2,2	108	1977	1109	2,1	108
6-8	24037	1915	440	1,8	109	1981	437	1,8	109
All	153661	1917	3089	2	108	1980	3045	2	108
Grandfathers									
0-2	18253	1915	797	4,4	111	1980	791	4,3	112
3	51408	1914	2174	4,2	112	1981	2147	4,2	113
4-5	46854	1913	2059	4,4	113	1979	2039	4,4	114
6-8	21766	1912	1098	5	114	1977	1093	5	114
All	138281	1914	6128	4,4	113	1980	6070	4,4	113
Mothers									
0-2	10673	1947	49	0,5	70	2003	0	0	0
3	29836	1947	102	0,3	71	2003	0	0	0
4-5	27043	1946	81	0,3	72	2002	0	0	0
6-8	12545	1945	52	0,4	72	2000	0	0	0
All	80097	1946	284	0,4	71	2002	0	0	0
Fathers									
0-2	10671	1945	97	0,9	73	1999	0	0	0
3	29833	1944	235	0,8	73	2001	0	0	0
4-5	27041	1944	225	0,8	74	2000	0	0	0
6-8	12544	1943	128	1	74	1999	0	0	0
All	80089	1944	685	0,9	74	2000	0	0	0
Aunts/uncles									
0-2	48135	1948	622	1,3	71	1993	0	0	0
3	125437	1947	1656	1,3	71	1991	0	0	0
4-5	106315	1946	1755	1,7	73	1989	0	0	0
6-8	46568	1946	1060	2,3	73	1989	0	0	0
All	326455	1947	5093	1,6	72	1990	0	0	0
Cousins									
0-2	101276	1975	2536	2,5	44	2003	0	0	0

3	257605	1975	6963	2,7	44	2003	0	0	0
4-5	215376	1975	7257	3,4	44	2003	0	0	0
6-8	94354	1975	3925	4,2	44	2003	0	0	0
All	668611	1975	20681	3,1	44	2003	0	0	0
Siblings									
0-2	14456	1972	297	2,1	46	2004	0	0	0
3	39269	1973	959	2,4	46	2004	0	0	0
4-5	35684	1973	1186	3,3	46	2005	0	0	0
6-8	16999	1973	774	4,6	45	2006	0	0	0
All	106408	1973	3216	3	46	2005	0	0	0
Half-siblings									
0-2	9743	1977	280	2,9	43	2005	0	0	0
3	17244	1977	508	2,9	42	2005	0	0	0
4-5	11261	1978	414	3,7	42	2005	0	0	0
6-8	3892	1978	178	4,6	40	2007	0	0	0
All	42140	1977	1380	3,3	42	2005	0	0	0
Nieces/nephews									
0-2	26376	2001	244	0,9	21	2012	0	0	0
3	70043	2003	645	0,9	20	2012	0	0	0
4-5	62355	2004	799	1,3	18	2012	0	0	0
6-8	30002	2006	455	1,5	15	2013	0	0	0
All	188776	2003	2143	1,1	18	2012	0	0	0
Children									
0-2	19082	2002	155	0,8	18	2011	0	0	0
3	52336	2004	420	0,8	16	2011	0	0	0
4-5	48602	2005	461	0,9	14	2012	0	0	0
6-8	23952	2006	360	1,5	13	2013	0	0	0
All	143972	2004	1396	1	15	2012	0	0	0
Spouses									
0-2	11058	1972	127	1,1	48	2009	0	0	0
3	29324	1973	300	1	47	2009	0	0	0
4-5	25825	1972	364	1,4	48	2010	0	0	0
6-8	12003	1972	231	1,9	47	2010	0	0	0
All	78210	1972	1022	1,3	47	2010	0	0	0
In-laws									
0-2	54023	1961	962	1,8	56	2002	11	0	98
3	141177	1962	2300	1,6	55	2002	24	0	96
4-5	119322	1961	2352	2	54	2003	15	0	98
6-8	54245	1961	1313	2,4	53	2004	9	0	96
All	368767	1961	6927	1,9	54	2003	59	0	97

Notes: ¹Mean year of birth, ²Mean age in 2020 if assumed alive, ³Mean year of last observation in RTB without a corresponding death-date. Individuals (Kin-members) who never have been registered in Sweden are not identifiable and thus not included in the study population and are not enumerated as kin or contribute to the bereavement numerator. Individuals (kin-members) who are ever observed and at some point no longer observed from the residential registers ('register över totalbefolkningen', RTB) without returning by 2020 without a death date are treated as migrated. Dates of death of overseas populations are often reported to Statistics Sweden and updated in the death registers with some lag, but such reports and/or registry updates does not always take place. Migrated individuals (and individuals treated as such) without a death-date who are older than 90 in 2020 are treated as deceased at age 90. ISCED levels 0–2 (basic education, lower-secondary or short/interrupted upper-secondary education), 3 (upper-secondary education), 4–5 (post-secondary or short-cycle tertiary education), and 6–8 (bachelor's degree or equivalent, and above)

Table S2. Kin population by income quartile, potential range of overcoverage and unreported deaths.

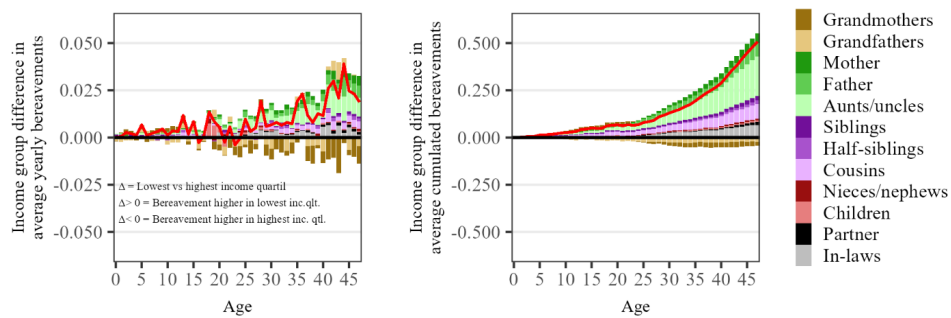
			Not in death nor residence registers (NDR)				Not in death nor residence registers (NDR) (age above 90)		
Income quartile	N	YOB ¹	NDR (N)	NDR (%)	Age in 2020 ²	Last Yr. of obs ³	NDR (N)	NDR (%)	Age in 2020 ²
Grandmothers									
1st	37128	1917	783	2,1	108	1982	769	2,1	108
2nd	37156	1917	742	2	108	1979	731	2	108
3rd	37062	1917	722	1,9	108	1979	714	1,9	108
4th	37245	1916	752	2	108	1980	742	2	108
All	148591	1917	2999	2	108	1980	2956	2	108
Grandfathers									
1st	33178	1914	1501	4,5	112	1983	1480	4,5	113
2nd	33450	1914	1401	4,2	113	1980	1392	4,2	113
3rd	33481	1914	1445	4,3	113	1978	1431	4,3	113
4th	33653	1913	1550	4,6	113	1977	1539	4,6	113
All	133762	1914	5897	4,4	113	1979	5842	4,4	113
Mothers									
1st	19375	1947	66	0,3	70	2002	0	0	0
2nd	19373	1947	39	0,2	70	2002	0	0	0
3rd	19353	1947	45	0,2	71	2004	0	0	0
4th	19357	1946	63	0,3	72	2002	0	0	0
All	77458	1946	213	0,3	71	2003	0	0	0
Fathers									
1st	19371	1944	179	0,9	73	2000	0	0	0
2nd	19371	1944	97	0,5	74	1998	0	0	0
3rd	19352	1944	129	0,7	73	2000	0	0	0
4th	19356	1944	191	1	74	2000	0	0	0
All	77450	1944	596	0,8	73	2000	0	0	0
Aunts/uncles									
1st	83353	1947	1229	1,5	72	1991	0	0	0
2nd	82155	1947	1048	1,3	71	1990	0	0	0
3rd	78283	1947	1097	1,4	72	1990	0	0	0
4th	72738	1946	1493	2,1	73	1989	0	0	0
All	316529	1947	4867	1,5	72	1990	0	0	0
Cousins									
1st	171764	1975	4953	2,9	44	2004	0	0	0
2nd	169271	1975	4462	2,6	45	2003	0	0	0
3rd	160364	1975	4858	3	44	2003	0	0	0

4th	147332	1975	5560	3,8	45	2003	0	0	0
All	648731	1975	19833	3,1	44	2003	0	0	0
Siblings									
1st	25791	1973	639	2,5	46	2005	0	0	0
2nd	26076	1973	586	2,2	46	2005	0	0	0
3rd	25760	1973	668	2,6	45	2005	0	0	0
4th	25311	1973	1007	4	46	2005	0	0	0
All	102938	1973	2900	2,8	46	2005	0	0	0
Half-siblings									
1st	13565	1977	398	2,9	43	2005	0	0	0
2nd	10579	1977	271	2,6	42	2005	0	0	0
3rd	8929	1977	300	3,4	42	2005	0	0	0
4th	7724	1978	335	4,3	41	2005	0	0	0
All	40797	1977	1304	3,2	42	2005	0	0	0
Nieces/nephews									
1st	44941	2003	449	1	20	2012	0	0	0
2nd	46866	2003	450	1	20	2012	0	0	0
3rd	45847	2004	459	1	18	2012	0	0	0
4th	45502	2005	637	1,4	17	2012	0	0	0
All	183156	2003	1995	1,1	18	2012	0	0	0
Children									
1st	32259	2004	157	0,5	16	2015	0	0	0
2nd	35833	2004	78	0,2	21	2016	0	0	0
3rd	36294	2004	62	0,2	21	2015	0	0	0
4th	38046	2005	88	0,2	17	2017	0	0	0
All	142432	2004	385	0,3	18	2016	0	0	0
Spouses									
1st	18229	1972	198	1,1	47	2010	0	0	0
2nd	19583	1972	103	0,5	49	2010	0	0	0
3rd	19683	1972	112	0,6	47	2011	0	0	0
4th	19894	1972	101	0,5	47	2011	0	0	0
All	77389	1972	514	0,7	48	2011	0	0	0
In-laws									
1st	88035	1962	1591	1,8	55	2002	15	0	97
2nd	94123	1961	1506	1,6	54	2003	18	0	97
3rd	91993	1961	1665	1,8	54	2002	12	0	99
4th	89771	1961	1964	2,2	54	2003	13	0	95
All	363922	1961	6726	1,8	54	2003	58	0	97

Notes: ¹Mean year of birth, ²Mean age in 2020 if assumed alive, ³Mean year of last observation in RTB without a corresponding death-date. Individuals (Kin-members) who never have been registered in Sweden are not identifiable and thus not included in the study population and are not enumerated as kin or contribute to the bereavement numerator. Individuals (kin-members) who are ever observed and at some point no longer observed from the residential registers ('register över totalbefolkningen', RTB) without returning by 2020 without a death date are treated as migrated. Dates of death of overseas populations are often reported to Statistics Sweden and updated in the death registers with some lag, but such reports and/or registry updates does not always take place. Migrated individuals (and individuals treated as such) without a death-date who are older than 90 in 2020 are treated as deceased at age 90.

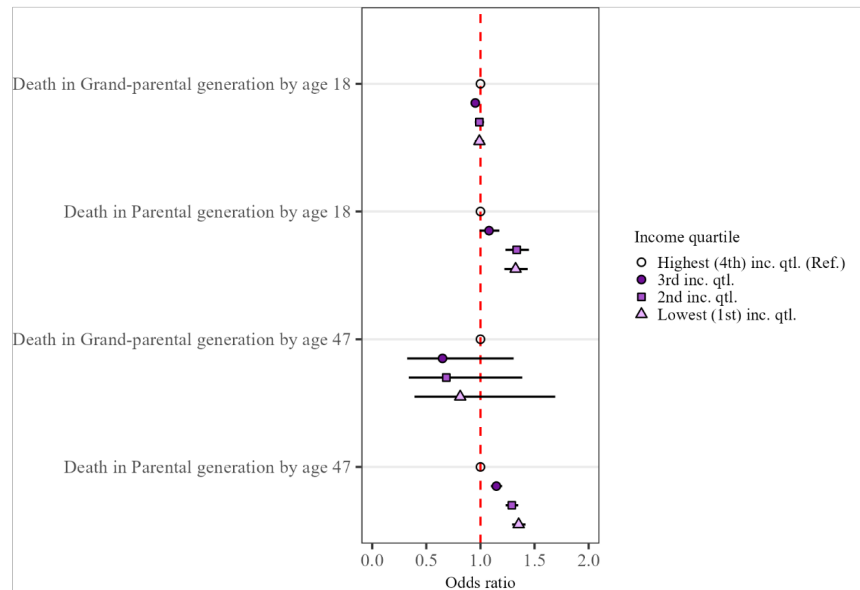
Appendix B. Bereavement patterns by income quartile

Figure S1. Difference in intensity of family bereavement between lowest and highest income quartiles, 1973 Swedish birth cohort (men and women combined).



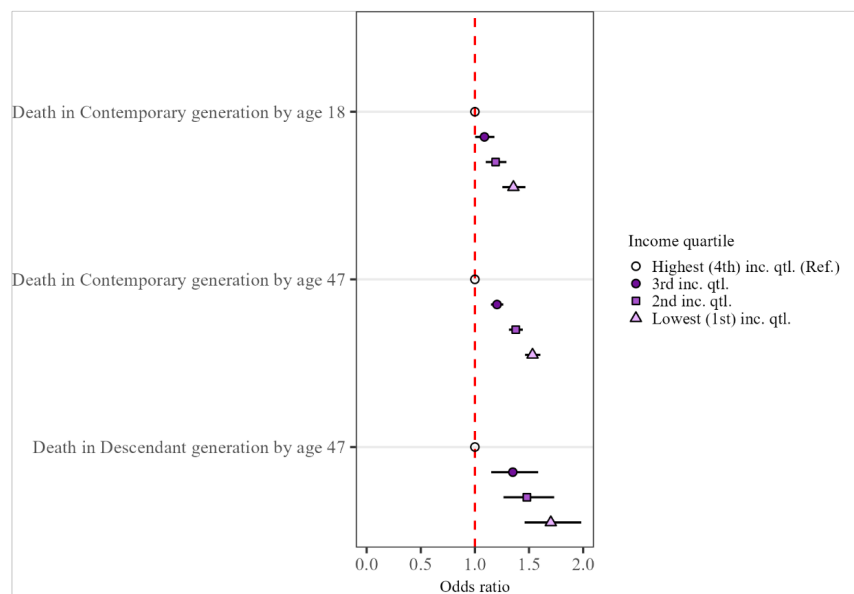
Note: Left panel: Difference in average yearly number of kin deaths. Right panel: Difference in average cumulative number of kin deaths. Red line indicates the net difference between income quartiles across all relationship types.

Figure S2. Odds ratios of ever experiencing kin death in grandparental or parental generation by age and income quartile, 1973 Swedish birth cohort (men and women combined).



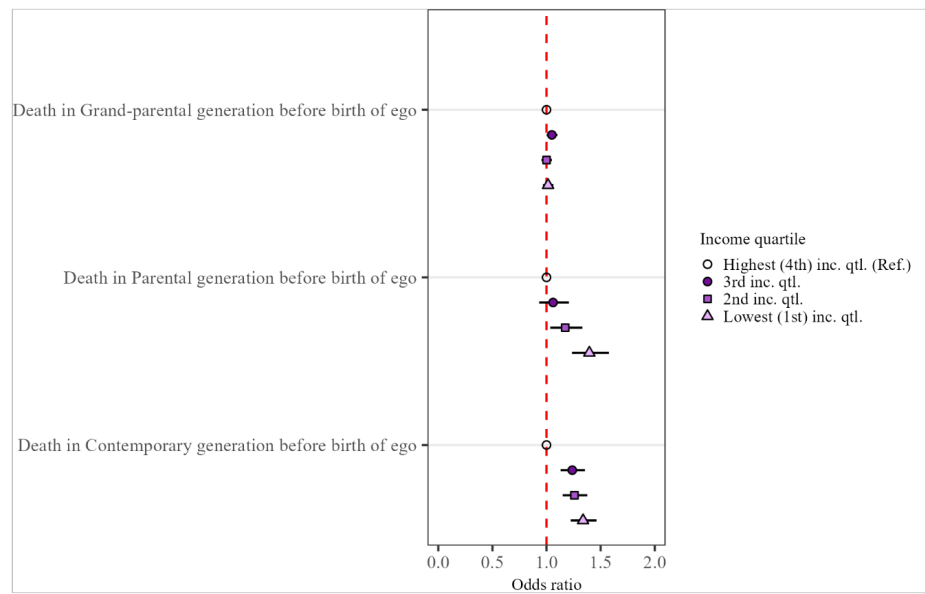
Note: Logistic regression. Reference group: highest income quartile.

Figure S3. Odds ratios of ever experiencing kin death in contemporaneous and descendant generation by age and income quartile, 1973 Swedish birth cohort (men and women combined).



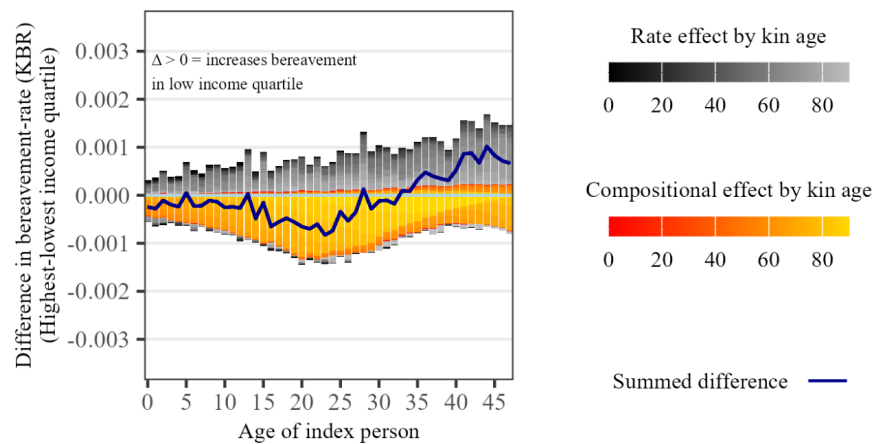
Note: Logistic regression. Reference group: highest income quartile.

Figure S4. Odds ratios of kin death prior to *ego*'s birth by income quartile, 1973 Swedish birth cohort (men and women combined).



Note: Logistic regression. Reference group: highest income quartile.

Figure S5. Decomposition of difference in yearly bereavement rate between lowest and highest income quartiles, by kin age. 1973 Swedish birth cohort, ages 0 to 47 (men and women combined).



Appendix C. Main results by gender

Figure S6. Family bereavement across the life course by gender and kin relationship, 1973 Swedish birth cohort

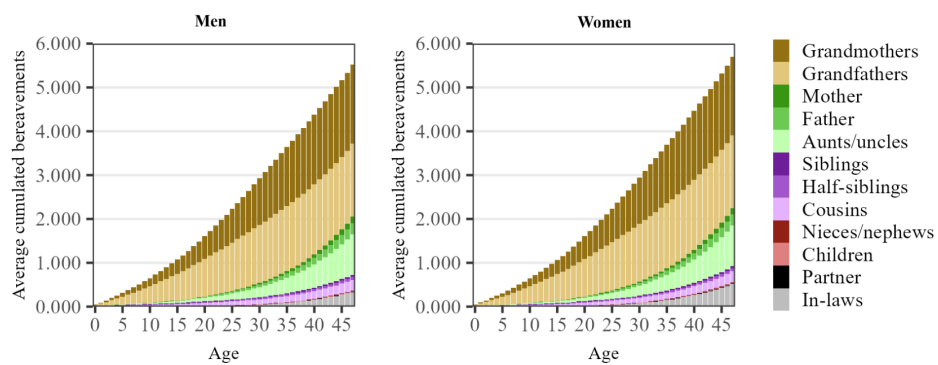
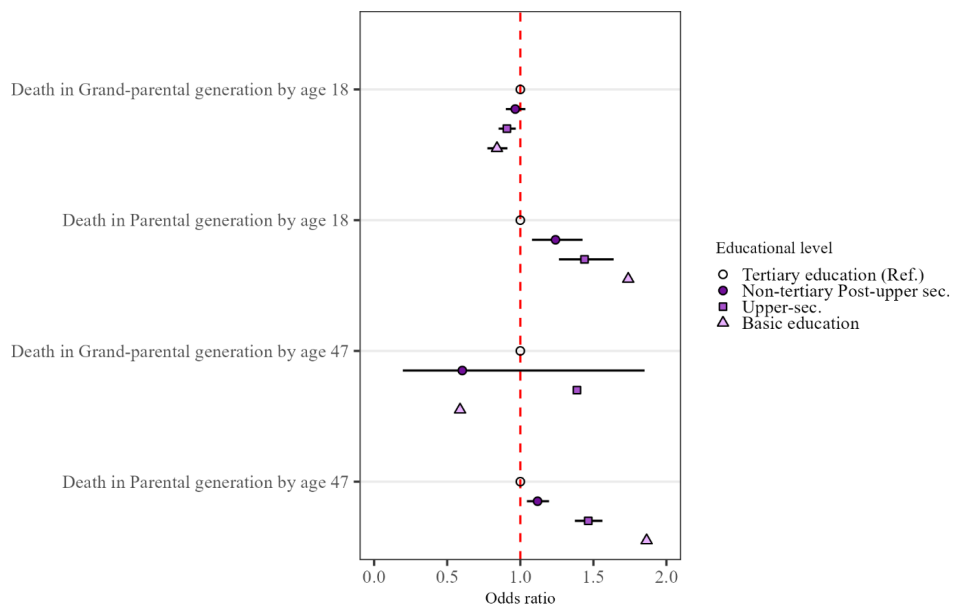
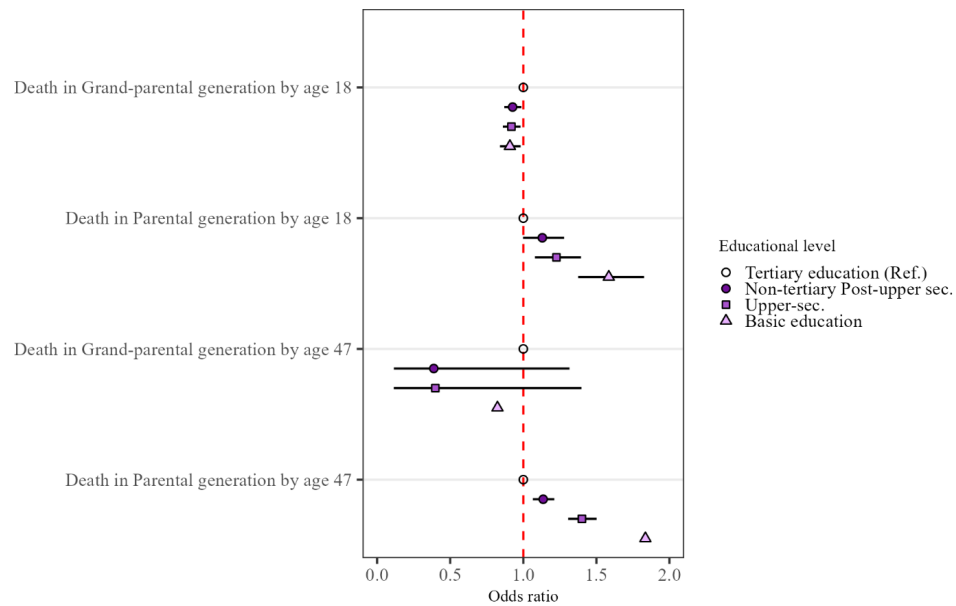


Figure S7. Odds ratios of ever experiencing kin death in grandparental or parental generation by age and level of education, 1973 Swedish birth cohort (men).



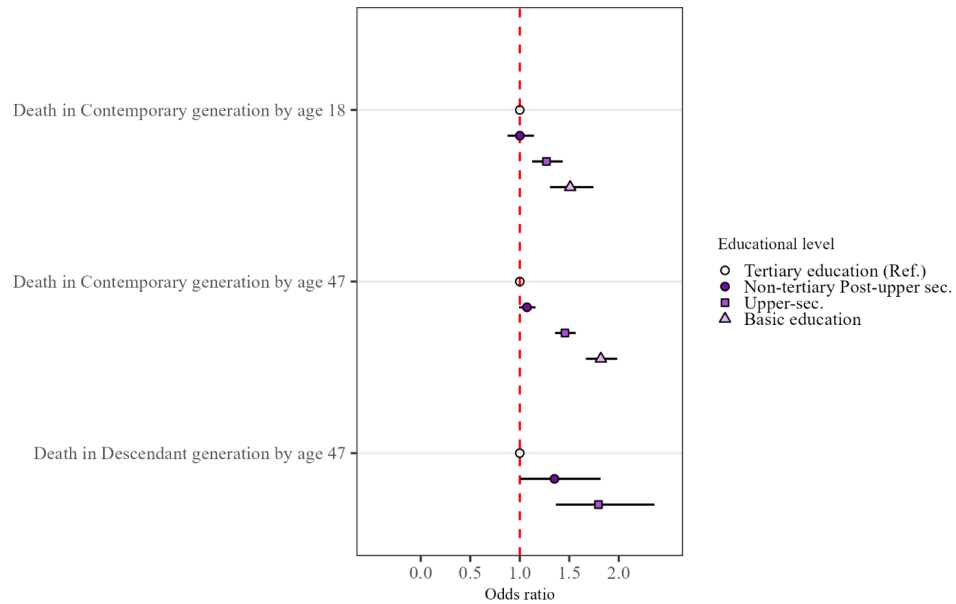
Note: Logistic regression. Reference group: tertiary education.

Figure S8. Odds ratios of ever experiencing kin death in grandparental or parental generation by age and level of education, 1973 Swedish birth cohort (women).



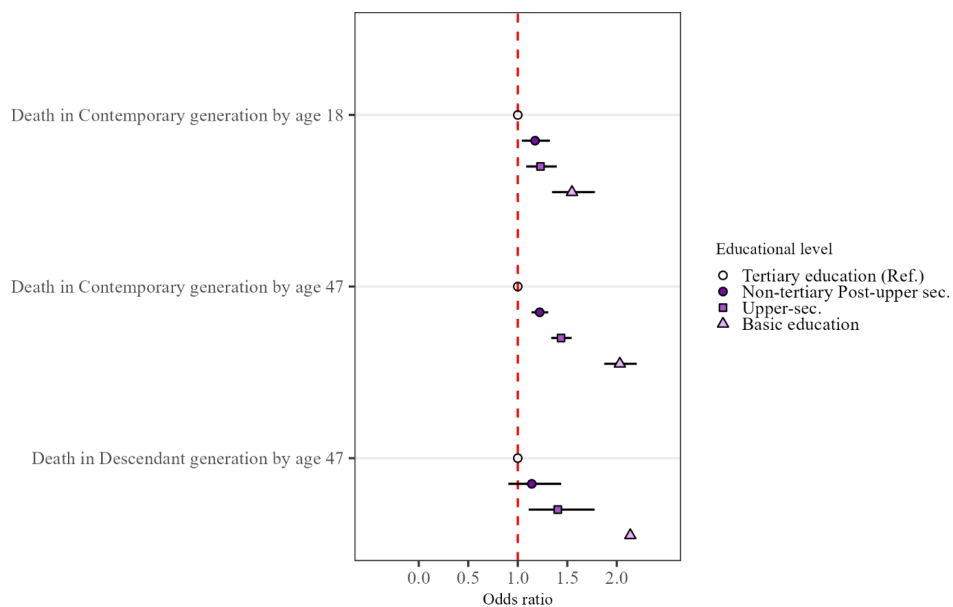
Note: Logistic regression. Reference group: tertiary education.

Figure S9. Odds ratios of ever experiencing kin death in contemporaneous and descendant generation by age and level of education, 1973 Swedish birth cohort (men).



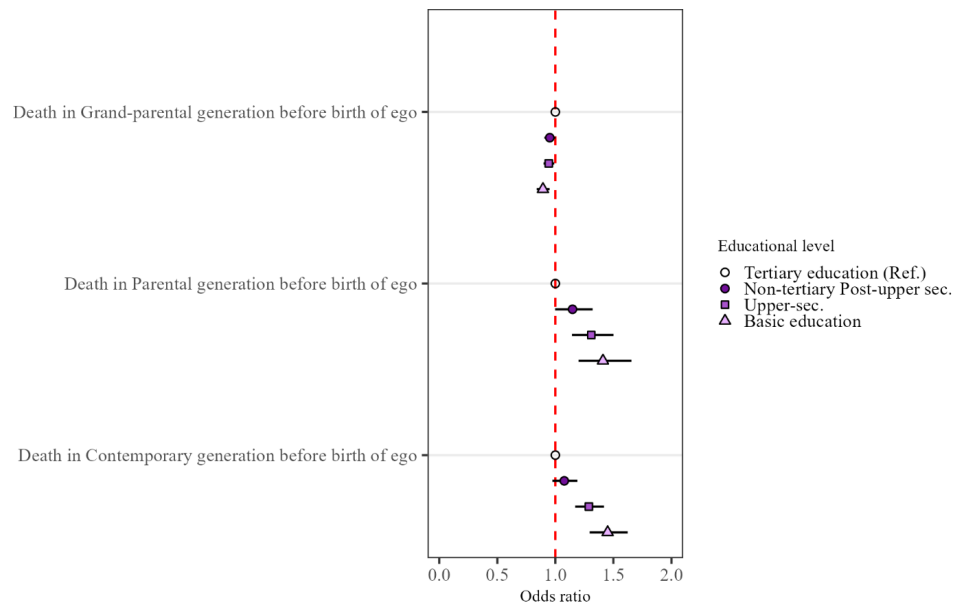
Note: Logistic regression. Reference group: tertiary education.

Figure S10. Odds ratios of ever experiencing kin death in contemporaneous and descendant generation by age and level of education, 1973 Swedish birth cohort (women).



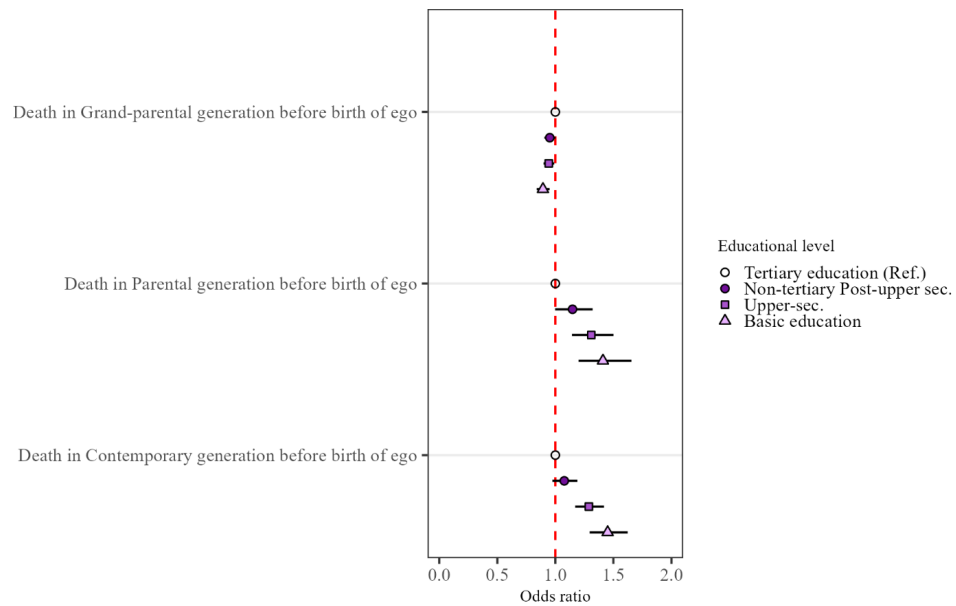
Note: Logistic regression. Reference group: tertiary education.

Figure S11. Odds ratios of kin death prior to *ego*'s birth by level of education, 1973 Swedish birth cohort (men).



Note: Logistic regression. Reference group: tertiary education.

Figure S12. Odds ratios of kin death prior to *ego*'s birth by level of education, 1973 Swedish birth cohort (women).



Note: Logistic regression. Reference group: tertiary education.

Figure S13. Decomposition of difference in yearly bereavement rate between basic and tertiary education groups, 1973 Swedish birth cohort (men).

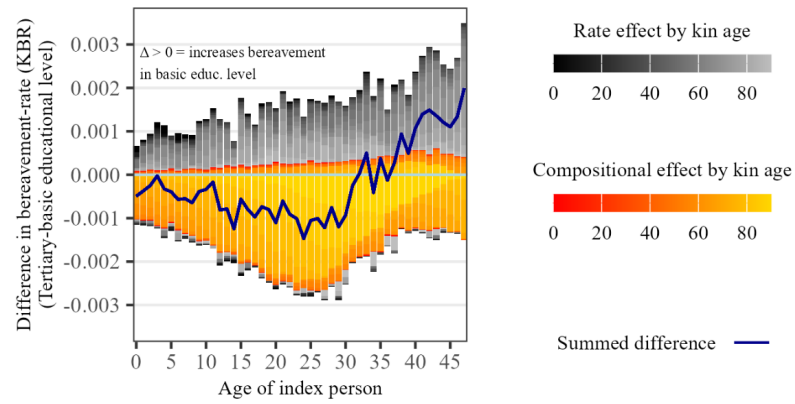
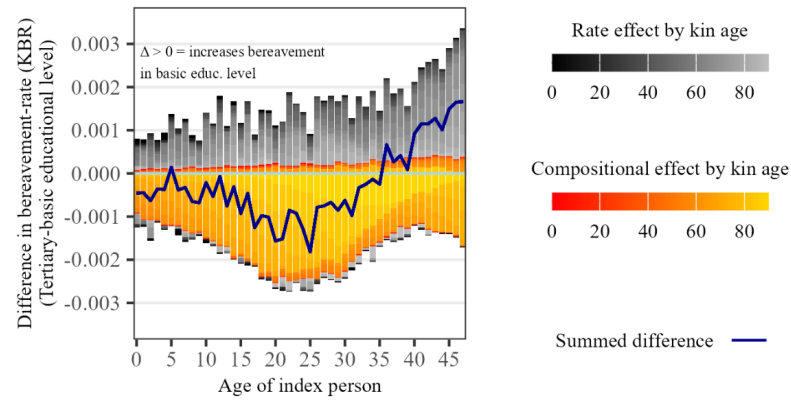
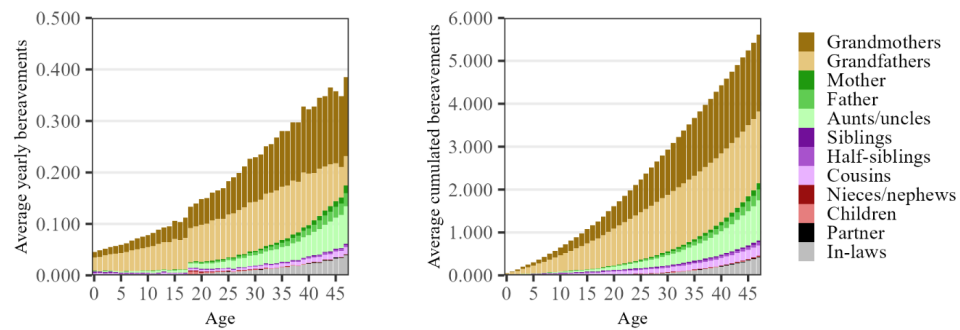


Figure S14. Decomposition of difference in yearly bereavement rate between basic and tertiary education groups, by kin age (women). 1973 Swedish birth cohort, ages 0 to 47.



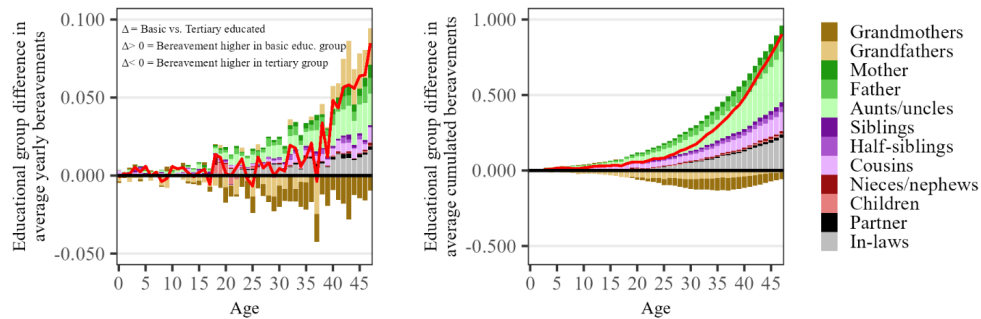
Appendix D. Main results without conditioning on survival to age 47

Figure S15. Intensity of family bereavement across the life course, 1973 Swedish birth cohort (age 0 to 47; not conditioned on survival).



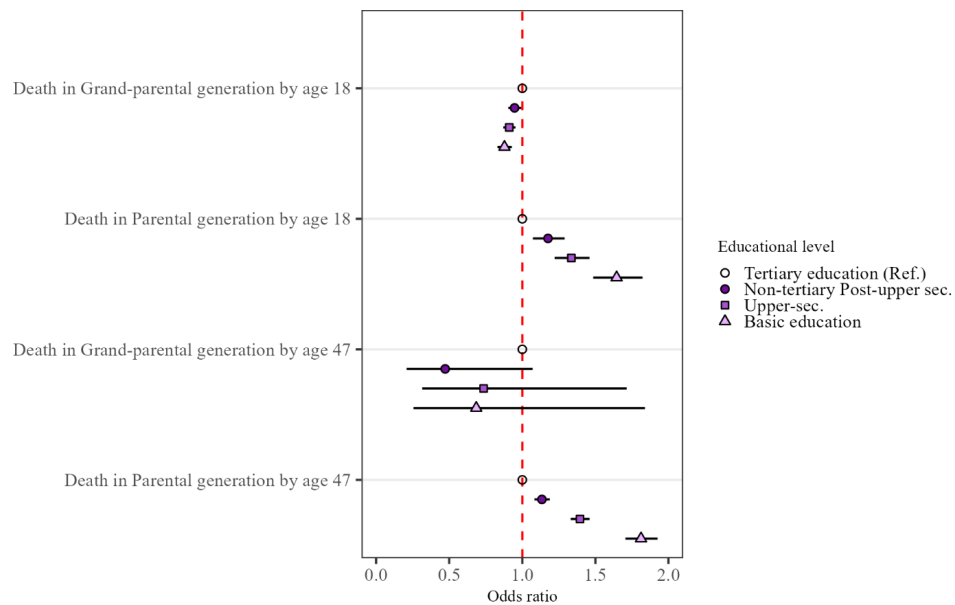
Note: Left panel: Yearly average number of bereavements by kin relationship and age. Right panel: Cumulative number of bereavements by kin relationship and age.

Figure S16. Intensity of family bereavement by level of education, 1973 Swedish birth cohort (age 0 to 47; not conditioned on survival).



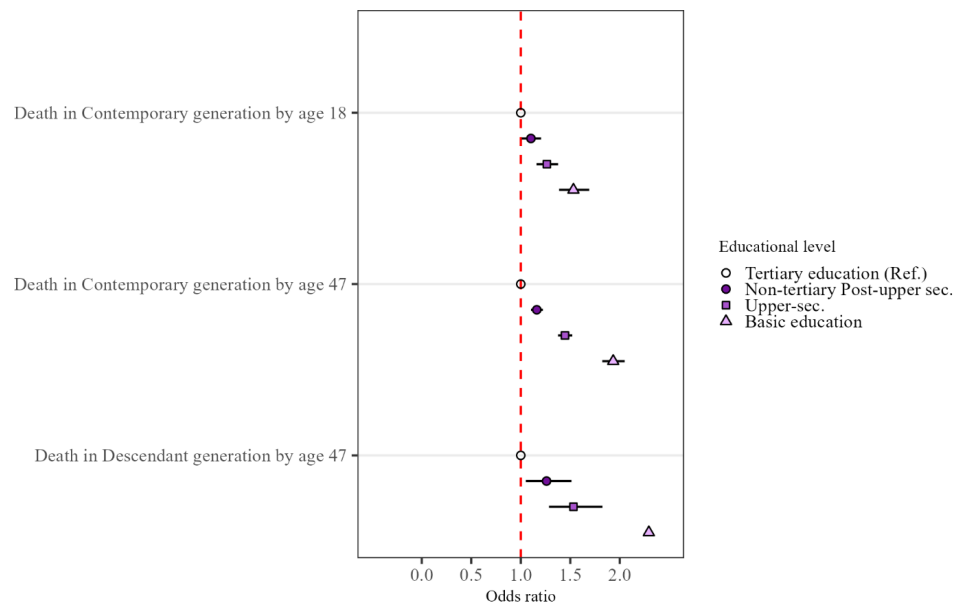
Note: Left panel: Difference between basic and tertiary education groups in average yearly number of kin deaths. Right panel: Difference between basic and tertiary education groups in average cumulative number of kin deaths. Red line indicates the net difference between education groups across all relationship types.

Figure S17. Odds ratios of ever experiencing kin death in grandparental or parental generation by age and level of education, 1973 Swedish birth cohort (men and women combined; not conditioned on survival).



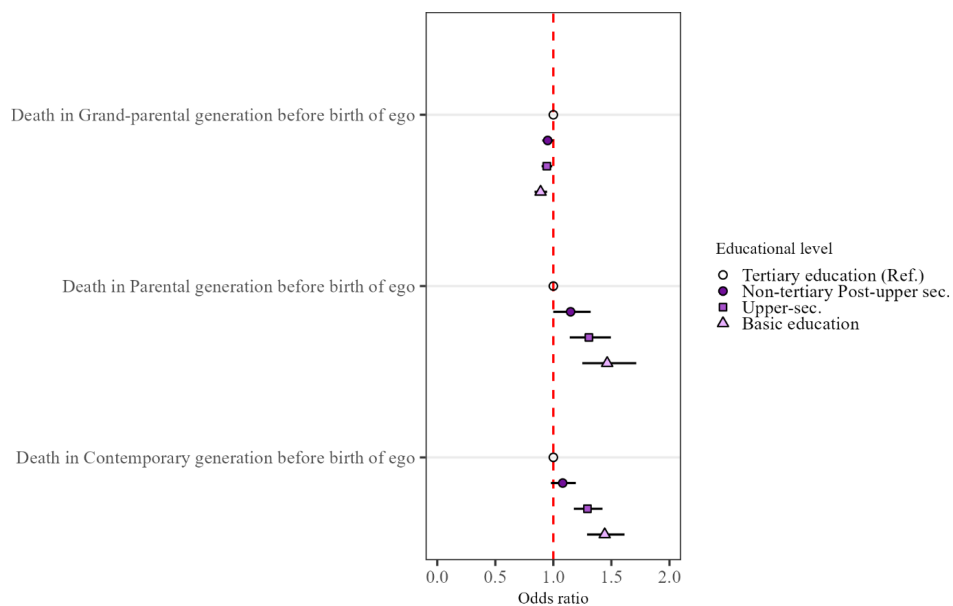
Note: Logistic regression. Reference group: tertiary education.

Figure S18. Odds ratios of ever experiencing kin death in contemporaneous and descendant generation by age and level of education, 1973 Swedish birth cohort (men and women combined; not conditioned on survival).



Note: Logistic regression. Reference group: tertiary education.

Figure S19. Odds ratios of kin death prior to *ego*'s birth by level of education, 1973 Swedish birth cohort (men and women combined; not conditioned on survival).



Note: Logistic regression. Reference group: tertiary education.