

Supplementary Materials

Table 4. Place of Death distribution

Place of Death	Sample (%) (count)
Private Home	20.91% (151)
Hospital	54.57% (394)
Care Home	15.65% (113)
Hospice	8.86% (64)
Total observations	100% (722)

Table 5. Model 1 AMEs – Control variables: Age, Gender, Education, Wealth, and Disability Level

	Outcomes														
Factors	Private Home Death			Hospital Death			Care Home Death				Hospice Death				
	dx/dy ¹	SE	95% CI	dx/dy	SE	95% CI	dx/dy	SE	95% CI	dx/dy	SE	95% CI	dx/dy	SE	95% CI
	.168**	.050	.066 .267	-.075	.071	-.213 .064	-.228**	.072	-.368 -.088	.135***	.034	.067 .202			
	.129**	.044	.044 .214	-.112*	.052	.214 -.0101	-.127**	.038	-.201 -.054	.11**	.033	.046 .175			
	.126**	.038	.053 .120	-.108*	.043	-.191 -.024	-.080**	.028	-.135 -.024	.061*	.032	-.001 .124			
	Reference category														
	-.018	.030	-.077 .041	-.038	.037	-.108 .032	.029	.026	-.022 .080	.026	.020	-.014 .067			
	-.068	.040	-.146 .010	.114*	.048	.018 .209	.017	.039	-.059 .094	-.064**	.023	-.109 -.019			
	-.005	.047	-.097 .089	.060	.063	-.063 .183	.007	.051	-.093 .107	-.063	.033	-.128 .009			
	Reference category														
(10,000s)	.000	.000	-.000 .000	-.000	.000	-.001 .000	-1.71e-06	.000	-.000 .000	.000	.000	-.000 .000			
ility	-.0926*	.037	-.164 -.019	.314***	.040	.236 .392	-.200***	.039	-.276 -.124	-.023	.024	-.071 .025			
ility	-.065	.035	-.133 .003	.202***	.039	.125 .279	-.108***	.030	-.169 -.048	-.029	.025	-.078 .021			
ibility	Reference category														

*p<0.05 **p<0.01 ***p<0.001

¹dx/dy denotes the average marginal effect (AME), representing the change in the predicted probability of the outcome for a one-unit increase in the predictor, averaged across all observations.

Table 6. Model 2 AMEs – Control variables and Disease Diagnoses

Predictors	Outcomes											
	Private Home Death			Hospital Death			Care Home Death			Hospice Death		
	dx/dy ¹	SE	95% CI	dx/dy	SE	95% CI	dx/dy	SE	95% CI	dx/dy	SE	95% CI
50 – 64 y/o	.108*	.052	.005 .210	-.047	.073	-.189 .096	-.119	.065	-.246 -.008	.058	.034	-.009 .125
65 – 79 y/o	.086	.038	.027 .177	-.081	.053	-.186 .024	-.047	.040	-.125 .032	.042	.030	-.018 .101
80 – 84 y/o	.102**	.038	.028 .177	-.084	.043	-.167 .000	-.034	.029	-.090 .022	.015	.030	-.043 .074
85+ y/o	Reference category											
Gender	-.017	.030	-.076 .043	-.031	.035	-.100 .038	.025	.025	-.024 .074	.023	.019	-.015 .061
< GCSE	-.067	.039	-.144 .010	.100*	.049	.005 .195	.008	.037	-.066 .081	-.041	.023	-.085 .004
GCSE	-.004	.047	-.095 .089	.075	.062	-.046 .197	-.008	.052	-.109 .094	-.064*	.030	-.124 -.004
A-level+	Reference category											
Wealth (in £10,000s)	.000	.000	-.000 .000	-.000	.000	-.001 .000	-.000	.000	-.000 .000	.000	.000	-.000 .000
Light Disability	-.119**	.034	-.190 -.049	.286***	.040	.207 .365	-.157***	.037	-.230 -.085	-.010	.023	-.055 .035
Mild Disability	-.083*	.035	-.151 -.014	.200***	.040	.122 .278	-.092*	.030	-.150 -.034	-.025	.024	-.072 .022
Severe Disability	Reference category											
Cancer	-.006	.041	-.085 .074	-.172**	.052	-.274 -.070	-.055	.030	-.115 .004	.233**	.068	.100 .367
Heart Condition	.024	.037	-.047 .096	.056	.043	-.029 .140	.009	.031	-.053 .071	-.089**	.030	-.148 -.030
COPD	.064	.038	-.010 .139	-.021	.046	-.111 .069	.015	.034	-.052 .082	-.058	.031	-.119 .003
Dementia	-.158**	.061	-.275 -.039	.003	.059	-.113 .118	.170***	.030	.111 .230	-.016	.040	-.100 .064
Stroke	-.077	.047	-.170 -.014	.082	.052	-.020 .184	.058	.033	.006 .124	-.063	.039	-.140 .012
Arthritis	.016	.040	-.072 .084	-.053	.045	-.142 .036	.057	.030	-.001 .115	-.010	.028	-.064 .044
Psychiatric Condition	.020	.060	-.099 .137	.033	.070	-.103 .168	.031	.049	-.064 .127	-.083	.049	-.180 .013
Multimorbidity	.0668	.049	-.029 .161	-.074	.058	-.187 .040	.040	.043	-.044 .124	-.032	.030	-.091 .026
Number of Chronic Illnesses	-.017	.019	-.055 .021	.025	.023	-.020 .070	-.037*	.017	-.070 -.003	.029*	.014	.002 .056

*p<0.05 **p<0.01 ***p<0.001

¹dx/dy denotes the average marginal effect (AME), representing the change in the predicted probability of the outcome for a one-unit increase in the predictor, averaged across all observations

Table 7. Model 3 AMEs - Control variables, Disease Diagnoses and Care Provider Types

	Outcomes													
Predictors	Home Death			Hospital Death			Care Home Death			Hospice Death				
	dx/dy ¹	SE	95% CI	dx/dy	SE	95% CI	dx/dy	SE	95% CI	dx/dy	SE	95% CI		
50 – 64 y/o	.137*	.055	.029 .243	-.092	.075	-.239 .056	-.108	.064	-.234 .017	.064	.037	-.009 .137		
65 – 79 y/o	.087	.046	-.002 .177	-.140*	.054	-.245 -.033	-.004	.040	-.081 .076	.054	.032	-.009 .117		
80 – 84 y/o	.102**	.038	.027 .177	-.114**	.044	-.200 -.129	-.014	.029	-.070 .042	.026	.030	-.034 .085		
85+ y/o	Reference category													
Gender	-.023	.032	-.086 .041	.021	.038	-.054 .096	-.015	.026	-.066 .040	.016	.022	-.027 .060		
< GCSE	-.072	.040	-.151 .007	.114*	.050	.016 .211	-.003	.037	-.075 .070	-.039	.023	-.083 .006		
GCSE	-.013	.048	-.107 .081	.080	.063	-.042 .202	-.009	.050	-.107 .090	-.058	.031	-.119 .004		
A-level+	Reference category													
Wealth	.000	.000	-.000 .000	-.000	.000	-.001 .000	-.000	.000	-.000 .000	.000	.000	-.000 .000		
Light Disability	-.116**	.036	-.188 -.046	.292***	.040	.213 .371	-.164***	.036	-.233 -.093	-.012	.024	-.059 .034		
Mild Disability	-.078*	.034	-.146 -.011	.209***	.040	.131 .287	-.108***	.029	-.166 -.050	-.023	.024	-.070 .024		
Severe Disability	Reference category													
Cancer	-.012	.042	-.093 .070	-.183**	.052	-.284 -.082	-.036	.031	-.096 .024	.230**	.068	.097 .363		
Heart Condition	.021	.038	-.053 .095	.061	.043	-.024 .146	.008	.030	-.051 .066	-.089*	.030	-.149 -.030		
COPD	.066	.038	-.008 .141	-.019	.045	-.108 .071	.100	.034	-.057 .077	-.057	.032	-.121 .006		
Dementia	-.145*	.059	-.260 -.030	-.027	.052	-.142 .088	.183***	.029	.125 .241	-.011	.040	-.090 .068		
Stroke	-.074	.046	-.164 .017	.071	.052	-.032 .173	.066	.034	-.001 .133	-.063	.040	-.142 .016		
Arthritis	.010	.040	-.068 .087	-.050	.046	-.139 .040	.057*	.029	.001 .113	-.018	.029	-.075 .039		
Psychiatric Condition	.015	.059	-.100 .130	.036	.067	-.096 .168	.030	.043	-.052 .114	-.082	.050	-.179 .015		
Multimorbidity	.066	.048	-.030 .161	-.074	.058	-.187 .039	-.038	.041		-.030	.030	-.090 .029		
Number of Chronic Illnesses	-.017	.020	-.056 .021	.026	.024	-.021 .073	-.037*	.018	-.072 -.002	.028	.014	-.000 .056		
Partner Care	.014	.036	-.056 .085	.144**	.044	.058 .230	-.118	.033	-.182 -.054	-.040	.026	-.090 .010		
Partner No Care	-.103	.072	-.243 .038	.32	.077	-.018 .282	-.055	.050	-.152 .042	.025	.035	-.044 .095		
No Partner	Reference category													
Living-in Child Care	.005	.066	-.125 .135	.119	.075	-.027 .265	-.092	.049	-.189 -.004	-.031	.041	-.113 .049		
Living-in Child No Care	-.088	.064	-.213 .038	.190*	.088	.017 .362	-.105	.060	-.222 -.012	.003	.064	-.123 .129		
Living-out Child Care	.019	.052	-.083 .120	.054	.062	-.067 .176	-.044	.039	-.183 -.029	-.029	.039	-.104 .046		
Living-out Child No Care	.013	.052	-.089 .114	.063	.058	-.051 .177	-.106**	.039	-.183 -.029	.030	.042	-.053 .112		

Other Relative Care	.023	.048	-.070	.117	.015	.054	-.090	.122	-.087**	.032	-.150	-.026	.048	.029	-.009	.105
Friend Care	.025	.048	-.069	.118	-.029	.057	-.140	.085	-.006	.040	-.086	.073	.009	.031	-.051	.070
Paid Care	.063	.050	-.036	.162	-.002	.061	-.118	.122	-.030	.042	-.113	.052	-.035	.043	-.118	.050
*p<0.05 **p<0.01 ***p<0.001 ¹dx/dy denotes the average marginal effect (AME), representing the change in the predicted probability of the outcome for a one-unit increase in the predictor, averaged across all observations																

Table 9. Model 6 AMEs – Control variables and Prognostic Uncertainty (Unexpected Death)

Predictors	Outcomes															
	Private Home Death				Hospital Death				Care Home Death				Hospice Death			
	dx/dy ¹	SE	95% CI		dx/dy	SE	95% CI		dx/dy	SE	95% CI		dx/dy	SE	95% CI	
50 – 64 y/o	.169**	.050	.070	.268	-.078	.069	-.214	.058	-.226**	.071	-.365	-.086	.135***	.034	.067	.202
65 – 79 y/o	.130*	.043	.045	.216	-.120*	.051	-.221	-.020	-.123**	.028	-.132	-.022	.112**	.033	.048	.176
80 – 84 y/o	.128*	.037	.054	.201	-.113**	.042	-.196	-.030	-.077**	.028	-.132	-.022	.063*	.032	-.003	.125
85+ y/o	Reference category															
Gender	-.017	.030	-.076	.041	-.039	.035	-.108	.031	.030	.026	-.020	.080	.026	.020	-.014	.066
< GCSE	-.067	.040	-.146	.011	.110	.048	-.016	.206	.018	.039	-.058	.093	-.061**	.023	-.105	-.017
GCSE	-.001	.047	.093	.092	.048	.062	-.074	.171	.011	.051	-.087	.110	-.058	.033	-.124	.007
A-level+	Reference category															
Wealth (in £10,000s)	-.000	.000	-.000	.000	-.000	.000	-.000	.000	-.000	.000	-.000	.000	.000	.000	-.000	.000
Light Disability	-.083*	.038	-.157	.009	.283***	.041	.202	.364	-.186***	.039	-.263	-.108	-.014	.025	-.063	.034
Mild Disability	-.060	.034	-.129	.008	.187***	.040	.110	.264	-.100**	.030	-.161	-.040	-.026	.025	-.076	.024
Severe Disability	Reference category															
Unexpected Death	-.033	.033	-.097	.030	.122**	.038	.048	.196	-.045	.030	-.104	.015	-.044	0.25	-.092	.004
*p<0.05 **p<0.01 ***p<0.001 ¹dx/dy denotes the average marginal effect (AME), representing the change in the predicted probability of the outcome for a one-unit increase in the predictor, averaged across all observations																

Table 10. Variance Inflation Factors (VIFs)

Predictor	VIF	1/VIF (Tolerance)
Adulthood	1.51	0.664
Young-Old	1.56	0.642
Old-Old	1.45	0.691

Oldest-Old	1.24	0.807
Gender	1.80	0.554
< GCSE	1.69	0.591
GCSE	1.06	0.947
A-level+	1.34	0.746
Wealth	1.23	0.815
Light Disability	1.67	0.597
Mild Disability	1.71	0.584
Severe Disability	1.38	0.725
Cancer	1.34	0.745
Heart Condition	1.45	0.692
COPD	1.58	0.633
Dementia	1.08	0.928
Stroke	1.73	0.577
Arthritis	3.43	0.291
Psychiatric Condition	1.73	0.577
Multimorbidity	1.20	0.835
Number of Chronic Illnesses	1.74	0.574
Partner Care	1.36	0.736
Partner No Care	3.01	0.332
No Partner	2.69	0.372
Living-in Child Care	2.42	0.413
Living-in Child No Care	1.09	0.920
Living-out Child Care	1.08	0.925
Living-out Child No Care	1.11	0.903
No Child	1.51	0.664
Other Relative Care	1.56	0.642
Friend Care	1.45	0.691
Paid Care	1.24	0.807
Unexpected Death	1.80	0.554
Mean VIF	1.63	