

**Supplementary File 4 – Models adjusted for non-linear age effects**

**Association between the living below the minimum income for healthy living during 2002-2006 and being frail in 2008, England.**

Models	Number of periods MIHL poor	N	Frail in 2008					Trend P-value	AIC
			OR	LCI	UCI	P-value			
Frailty definition: Fried's phenotype									
Adjusted* baseline model	No	1159	Ref					1070.5	
	Yes	183	<b>1.63</b>	<b>1.05</b>	<b>2.53</b>	<b>0.029</b>			
Adjusted* accumulation model	0	940	Ref				0.408	1076.9	
	1	211	1.33	0.83	2.13	0.237			
	2	118	1.26	0.71	2.23	0.424			
	3	73	1.62	0.82	3.20	0.166			
Frailty definition: Rockwood's index									
Adjusted* baseline model	No	1159	Ref					1192.9	
	Yes	183	<b>2.01</b>	<b>1.26</b>	<b>3.14</b>	<b>0.002</b>			
Adjusted* accumulation model	0	940	Ref				0.084	1200.5	
	1	211	<b>1.69</b>	<b>1.04</b>	<b>2.75</b>	<b>0.033</b>			
	2	118	1.79	0.99	3.24	0.054			
	3	73	1.42	0.69	2.93	0.337			

\*Adjusted for age(continuous), age squared, and gender; Note: MIHL=Minimum Income for Healthy Living; OR=Odds Ratio; LCI=Lower confidence interval; UCI=Upper confidence interval; AIC= Akaike Information Criterion.