

Supplementary Table 1 Odds of increasing severity of food insecurity by household socio-demographic characteristics in England, Wales, and Northern Ireland, 2016.

	Fully food secure vs. marginal/moderate/severe food insecurity		Fully food secure/marginal vs. moderate/severe food insecurity		Fully food secure/marginal/moderate vs severe food insecurity	
	Model 1	Model 2 (income adjusted)	Model 1	Model 2 (income adjusted)	Model 1	Model 2 (income adjusted)
	OR	OR	OR	OR	OR	OR
Gender						
Men	Ref	Ref	Ref	Ref	Ref	Ref
Women	1.23 (0.93-1.62)	1.19 (0.90-1.58)	1.34 (0.93-1.93)	1.28 (0.90-1.81)	1.71 (0.77-3.82)	1.56 (0.70-3.49)
Age						
16-24	1.94 (1.03-3.67)	2.09 (1.11-3.93)	1.61 (0.80-3.23)	1.69 (0.82-3.50)	2.18 (0.91-5.24)	2.27 (0.87-5.90)
25-34	1.76 (1.16-2.69)	1.65 (1.06-2.57)	1.52 (0.97-2.38)	1.48 (0.90-2.43)	1.41 (0.65-3.06)	1.52 (0.59-3.90)
35-44	1.34 (0.90-1.99)	1.30 (0.86-1.95)	1.39 (0.84-2.32)	1.22 (0.69-2.17)	0.98 (0.49-1.93)	0.89 (0.42-1.88)
45-54	Ref	Ref	Ref	Ref	Ref	Ref
55-64	0.71 (0.47-1.08)	0.68 (0.45-1.02)	0.62 (0.36-1.06)	0.55 (0.31-0.98)	0.46 (0.20-1.07)	0.43 (0.18-1.06)
65+	0.31 (0.14-0.71)	0.28 (0.12-0.65)	0.14 (0.03-0.66)	0.12 (0.02-0.69)	0.09 (0.01-0.61)	0.07 (0.01-0.46)
Self-assigned ethnicity						
White British/White	Ref	Ref	Ref	Ref	Ref	Ref
Other/mixed ethnicity	1.81 (1.17-2.82)	1.68 (1.08-2.60)	1.51 (0.80-2.85)	1.31 (0.72-2.40)	2.07 (0.91-4.73)	1.59 (0.73-3.46)
Marital status						
Married/cohabiting	Ref	Ref	Ref	Ref	Ref	Ref
Single/Widowed/Divorced/Separated/Other	1.20 (0.80-1.82)	1.05 (0.68-1.61)	1.14 (0.71-1.82)	1.03 (0.62-1.72)	0.93 (0.46-1.86)	0.81 (0.41-1.62)
Children in household						
No children in household	Ref	Ref	Ref	Ref	Ref	Ref
Children under 16, but none under 6	2.00 (1.30-3.06)	1.74 (1.13-2.69)	1.23 (0.63-2.39)	1.01 (0.49-2.06)	2.55 (0.62-10.5)	2.21 (0.52-9.40)
Children under 6 and possibly	2.20 (1.38-3.53)	1.64 (1.00-2.71)	1.79 (0.88-3.67)	1.25 (0.58-2.71)	4.31 (1.27-14.6)	2.84 (0.69-11.8)

older children						
Qualifications						
No qualifications identified	3.04 (1.88-4.93)	2.46 (1.52-3.98)	3.33 (1.74-6.39)	2.71 (1.31-5.57)	3.36 (1.13-10.02)	2.75 (0.79-9.49)
O level/GCSE, CSE, NVQ level 2 or below ¹	2.71 (1.80-4.10)	2.22 (1.49-3.30)	2.38 (1.38-4.10)	1.86 (0.99-3.47)	2.00 (0.75-5.37)	1.63 (0.53-5.01)
Diplomas in higher education ²	1.72 (1.15-2.57)	1.45 (0.97-2.16)	1.78 (1.01-3.14)	1.49 (0.81-2.74)	1.94 (0.63-6.01)	1.61 (0.44-5.83)
Undergrad degree/postgrad diplomas ³	Ref	Ref	Ref	Ref	Ref	Ref
Higher degree/postgraduate qualifications	0.89 (0.52-1.52)	1.10 (0.64-1.89)	0.36 (0.15-0.84)	0.40 (0.16-0.98)	0.11 (0.02-0.61)	0.17 (0.03-0.93)
Other qualifications (including overseas)	2.86 (1.31-6.24)	2.58 (1.15-5.77)	1.37 (0.49-3.81)	1.09 (0.40-2.98)	0.52 (0.05-5.93)	0.51 (0.04-6.19)
Work status						
In work	Ref	Ref	Ref	Ref	Ref	Ref
Retired	0.82 (0.40-1.66)	0.74 (0.37-1.49)	0.97 (0.25-3.78)	0.80 (0.18-3.64)	1.04 (0.23-4.83)	1.06 (0.22-5.13)
Unemployed	2.84 (1.67-4.83)	2.09 (1.24-3.52)	2.93 (1.76-4.89)	2.02 (1.23-3.33)	7.21 (3.37-15.4)	4.17 (1.36-12.8)
Other	1.54 (1.03-2.30)	1.38 (0.91-2.11)	1.62 (1.01-2.59)	1.30 (0.83-2.05)	3.03 (1.52-6.01)	2.03 (0.79-5.20)
Long-term health problem/disability						
None/no impact on daily activities	Ref	Ref	Ref	Ref	Ref	Ref
Yes, reduces daily activities a little	1.52 (1.05-2.21)	1.41 (0.99-2.02)	1.65 (1.08-2.52)	1.69 (1.07-2.65)	1.98 (0.95-4.13)	1.92 (0.89-4.15)
Yes, reduces daily activities a lot	2.17 (1.41-3.32)	1.98 (1.30-3.03)	2.64 (1.62-4.31)	2.62 (1.63-4.20)	6.54 (3.04-14.0)	6.06 (2.92-12.6)
Region						
England	Ref	Ref	Ref	Ref	Ref	Ref
Wales	1.53 (1.13-2.08)	1.35 (0.98-1.88)	1.09 (0.76-1.55)	0.94 (0.63-1.40)	1.05 (0.56-2.00)	0.91 (0.46-1.81)
Northern Ireland	1.09 (0.78-1.51)	0.99 (0.71-1.39)	0.87 (0.59-1.30)	0.77 (0.50-1.18)	1.00 (0.50-2.01)	0.89 (0.41-1.94)

Urban/rural classification						
Urban	Ref	Ref	Ref	Ref	Ref	Ref
Rural	0.82 (0.56-1.20)	0.82 (0.58-1.16)	0.77 (0.51-1.16)	0.70 (0.46-1.07)	1.07 (0.56-2.04)	1.03 (0.51-2.07)
Household income						
<£10,399	---	5.03 (2.69-9.39)	---	5.18 (2.32-11.6)	---	16.1 (2.49-103.5)
£10,400-£25,999	---	4.32 (2.77-6.77)	---	4.03 (2.12-7.66)	---	7.80 (2.28-26.7)
£26,000-£51,999	---	1.94 (1.26-3.00)	Ref	1.28 (0.66-2.46)	Ref	3.04 (0.84-11.0)
>£52,000	---	Ref	---	Ref	---	Ref
Missing	---	1.69 (1.04-2.74)	---	1.52 (0.77-3.01)	---	4.65 (1.17-18.4)

Notes: Odds ratios from a generalised ordered logistic model and SEs adjusted for complex survey design. Models adjusted for household size to adjust household income by size but not shown.