Supplementary Data 2 (Bell & Britton)

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Supplementary data 2

 Supplementary Table 2A – Detailed parameter estimates (95% confidence intervals) for all LCS model specifications of weekly alcohol consumption and mental health symptoms in the Whitehall II study

Supplementary Table 2A - Detailed parameter estimates (95% confidence intervals) for all LCS model specifications of weekly alcohol consumption and mental health symptoms in the Whitehall II study

Baseline	Age and sex adjusted		Fully adjusted	
Fixed effects				
	Alcohol	MCS	Alcohol	MCS
Intercept	17.15*** (16.73, 17.57)	51.57*** (51.31, 51.82)	17.63*** (16.69, 18.57)	53.46*** (52.86, 54.05)
Slope (α)	4.82*** (3.26, 6.39)	5.34 (-8.16, 18.85)	5.22*** (3.56, 6.89)	7.77 (-4.69, 20.24)
Autoproportional (β)	-0.43*** (-0.53, -0.33)	-0.08 (-0.34, 0.18)	-0.42*** (-0.52, -0.33)	-0.12 (-0.36, 0.11)
Coupling (γ)				
Random effects				
Residual variance	36.29*** (34.78, 37.80)	34.89*** (33.38, 36.39)	36.34*** (34.82, 37.85)	34.77*** (33.3, 36.24)
Intercept variance	176.69*** (169.11, 184.27)	47.38*** (44.21, 50.55)	143.00*** (136.55, 149.45)	40.15*** (37.26, 43.04)
Slope variance	15.93*** (8.23, 23.63)	2.41*** (1.4, 3.43)	13.88*** (7.51, 20.25)	2.02*** (0.90, 3.14)
Intercept/slope correlation	0.69***	-0.29	0.65***	-0.10
Intercepts correlation	-0.03		0.01	
Slopes correlation	-0.13*		-0.12	
Alcohol intercept, MCS				
slope correlation	-0.04		-0.04	
MCS intercept, alcohol				
slope correlation	0.03		0.05	
Alcohol $\rightarrow \Delta$ MCS model	Age and sex adjusted		Fully adjusted	
Fixed effects				
	Alcohol	MCS	Alcohol	MCS
Intercept	17.15*** (16.73, 17.57)	51.57*** (51.31, 51.83)	17.63*** (16.70, 18.57)	53.47*** (52.87, 54.06)
Slope (α)	4.83*** (3.26, 6.39)	7.86 (-8.21, 23.94)	5.23*** (3.56, 6.89)	10.82 (-3.90, 25.55)
Autoproportional (β)	-0.43*** (-0.53, -0.33)	-0.12 (-0.41, 0.17)	-0.43*** (-0.52, -0.33)	-0.17 (-0.42, 0.09)
Coupling (γ)	-0.03 (-0.15, 0.09)		-0.04 (-0.15, 0.08)	

Supplementary Table 2A. Pa	arameter estimates (95% confid	lence intervals) for LCS mo	dels of weekly alcohol consum	otion and mental health
symptoms in the Whitehall I	· ·	ionee mier vals) for 200 mo	acis of weekly areonor consum	
Random effects				
Residual variance	36.30*** (34.78, 37.81)	34.79*** (33.23, 36.34)	36.35*** (34.83, 37.86)	34.65*** (33.14, 36.16)
Intercept variance	176.68*** (169.10, 184.27)	47.55*** (44.30, 50.79)	142.98*** (136.53, 149.44)	40.34*** (37.39, 43.29)
Slope variance	15.93*** (8.22, 23.64)	2.50** (0.98, 4.03)	13.89*** (7.51, 20.27)	2.32* (0.09, 4.56)
Intercept/slope correlation	0.69***	-0.14	0.65***	0.08
Intercepts correlation	-0.02		0.02	
Slopes correlation	0.06		0.11	
Alcohol intercept, MCS slope correlation	0.19		0.23	
MCS intercept, alcohol slope correlation	0.03		0.05	
$MCS \rightarrow \Delta$ Alcohol model	Age and sex adjusted		Fully adjusted	
Fixed effects				
	Alcohol	MCS	Alcohol	MCS
Intercept	17.11 (16.69, 17.53)	51.54*** (51.28, 51.79)	17.58 (16.64, 18.52)	53.41*** (52.81, 54)
Slope (α)	21.46** (8.50, 34.43)	4.96 (-8.62, 18.54)	23.31*** (11.00, 35.62)	7.20 (-5.55, 19.96)
Autoproportional (β)	-0.50*** (-0.61, -0.40)	-0.07 (-0.33, 0.19)	-0.50*** (-0.60, -0.41)	-0.11 (-0.35, 0.12)
Coupling (γ)		-0.30* (-0.53, -0.06)		-0.31** (-0.52, -0.10)
Random effects				
Residual variance	35.77*** (34.23, 37.30)	35.02*** (33.51, 36.54)	35.77*** (34.25, 37.29)	34.94*** (33.45, 36.42)
Intercept variance	177.95*** (170.31, 185.58)	46.91*** (43.70, 50.11)	144.21*** (137.72, 150.71)	39.66*** (36.75, 42.58)
Slope variance	26.26*** (12.55, 39.98)	2.31*** (1.27, 3.34)	23.66*** (12.24, 35.08)	1.88** (0.81, 2.95)
Intercept/slope correlation	0.69***	-0.30	0.67***	-0.12
Intercepts correlation	-0.02		0.02	
Slopes correlation	-0.11		-0.02	
Alcohol intercept, MCS slope correlation	-0.05		-0.06	

Supplementary Table 2A. Pa	arameter estimates (95% confid	dence intervals) for LCS mo	dels of weekly alcohol consum	ption and mental health
symptoms in the Whitehall	II study (continued)			
MCS intercept, alcohol				
slope correlation	0.37**		0.40***	
Reciprocal Δ model	Age and sex adjusted		Fully adjusted	
Fixed effects				
	Alcohol	MCS	Alcohol	MCS
Intercept	17.11*** (16.69, 17.54)	51.55*** (51.29, 51.81)	17.59*** (16.65, 18.53)	53.42*** (52.83, 54.02)
Slope (α)	21.49** (9.07, 33.92)	8.72 (-6.03, 23.47)	23.2*** (11.42, 34.99)	11.05 (-2.7, 24.79)
Autoproportional (β)	-0.50*** (-0.6, -0.4)	-0.13 (-0.4, 0.14)	-0.50*** (-0.59, -0.40)	-0.17 (-0.41, 0.08)
Coupling (γ)	-0.05 (-0.16, 0.06)	-0.30** (-0.52, -0.07)	-0.06 (-0.16, 0.05)	-0.31** (-0.52, -0.11)
Random effects				
Residual variance	35.77*** (34.23, 37.3)	34.86*** (33.32, 36.4)	35.78*** (34.25, 37.3)	34.77*** (33.26, 36.28)
Intercept variance	177.97*** (170.33, 185.6)	47.16*** (43.91, 50.42)	144.21*** (137.71, 150.71)	39.91*** (36.95, 42.87)
Slope variance	25.75*** (12.76, 38.73)	2.67* (0.51, 4.82)	23.05*** (12.28, 33.82)	2.42 (-0.04, 4.88)
Intercept/slope correlation	0.69***	-0.08	0.66***	0.09
Intercepts correlation	-0.02		0.03	
Slopes correlation	0.28		0.37	
Alcohol intercept, MCS				
slope correlation	0.32		0.33	
MCS intercept, alcohol				
slope correlation	0.38**		0.41***	

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

N=6,330

Fully adjusted = age (centred around the sample mean), sex (male referent group), ethnicity (white [referent] vs non-white), socioeconomic status (defined by last recorded employment grade – entered as a linear term with high [referent], intermediate and low categories), marital status (married/cohabiting [referent] vs other), highest educational qualification (University [referent], post-secondary, secondary or no qualifications – entered as a continuous variable), economic activity (active [referent] vs in-active

[merging retired and unemployed groups together]), social network (centred around the mean score), current smoking status (no [referent] vs yes), level of physical activity (active [referent], moderately active or low – entered as a linear term), CAGE caseness (no case [referent] vs case), use of anti-depressant medication was also controlled for (no [referent] vs current), self-reported long-standing physical illness (no [referent] vs yes), belonging to the lowest sex-specific SF-36 physical health component quartile (no [referent] vs yes), known diabetes (no [referent] vs yes), CHD (no [referent] vs yes), stroke (no [referent] vs yes), TIA (no [referent] vs yes), total serum cholesterol (centred around the sample mean), systolic and diastolic blood pressure (centred around their mean values), a resting heart rate > 80 beats per minute (no [referent] vs yes) and BMI (centred around the sample mean).