

Wellbeing factors found in USoc and how used in our model (or not)

Wellbeing indicators from research lit	Age UK Wellbeing Index Indicator	More on how used or not, why	Usoc variables used
	(Or how else used in the model)		
Engagement with arts and culture (not membership, but going to and frequency)	Creative and cultural participation		b_arts1freq, b_arts2freq, b_libfreq, b_arcfreq, b_musfreq, b_herfreq
Physical activity	Physical activities	We had some discussion about the suitability of this indicator, but we felt it includes (in our interpretation) not just the sports activities but also physical activities of a general nature.	b_sportact
cognition	Thinking ability	We used two indicators for memory and three for intelligence, based on literature	c_cgwrd_dv, c_cgwri_dv, c_cgs7ca_dv, c_cgvfc_dv, c_cgna_dv
WEMWBS	Mental wellbeing		Sum of Warwick-Edinburgh Mental Well-being Scale (WEMWBS) using the variables d_scwemwba to d_scwemwbg
Feel optimistic	Mental wellbeing		
Feel useful	Mental wellbeing		
Relaxed	Mental wellbeing		
Deal well with problems	Mental wellbeing		
Feel close to others	Mental wellbeing		

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Able to make own choices	Mental wellbeing		
Think clearly	Mental wellbeing		
Degree achieved/education level/qualification	Level of education		d_qfhigh_dv
Health, e.g. long-term illness, ADL/IADL	2 indicators: Health conditions; Longstanding illness or disability		Health conditions: sum of a_hcond1 to a_hcond16; longstanding illness: d_health
personality	The Big 5, broken down into 5 indicators by type.	These are the widely-used 'OCEAN' factors, but due to feedback we wanted all to be positive so inverted 'neuroticism' to 'emotional stability'.	Sum of scores in each of the five traits – e.g. agreeableness=sum(c_scptrt5a1 c_scptrt5a2 c_scptrt5a3).
engagement with society/community	2 separate indicators: Social Participation; Civic participation		Social participation: sum of c_orga12 to c_orga16; Civic participation: sum of c_orga1 to c_orga11
felt capable of making decisions about things	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
depression	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
felt constantly under strain	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
felt you couldn't overcome your difficulties	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)



been able to enjoy your normal day-to-day activities	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
been able to face up to your problems	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
been feeling unhappy and depressed	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
mental health	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
confidence	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
get enough sleep/rest	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
feel useful	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
how worthwhile the things they do are	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)
happiness (at some time interval, e.g. yesterday, last week, last month)	Mental health	Used as part of GHQ-12	One-factor solution using GHQ-12 variables from wave 4 (d_scghqa to d_scghql)



resources	Split into 2 indicators: Home owned outright; Home owner with a mortgage. Renters used as a comparator.	We split 'resources' into various financial and asset indicators; here it is around home ownership	d_hsownd
Benefits	No means-tested benefits		Inverse of benefits sum of c_ficode14 to c_ficode26 and c_ficode39
Income (pensions)	Level of pension income		Sum of c_ficode1 to c_ficode13
Marital status	Legal marital status broken into 3 indicators: married, divorced, widowed		d_marstat
Social networks	Have friends		c_closenum (with a truncation at 22)
feel they belong to their neighbourhood	Neighbourliness of local area	Used as part of 'neighbourliness', which is synthesised from several questions in USoc	c_scopngbha to c_scopngbhh
Material wellbeing	Level of financial wealth	We used net wealth.	sum of d_svamt1 to d_svamt6
Lives alone	Live with other people	Household size	d_hhsize
Employment status	Working		d_jbstat
community and services support available {satisfied with shops and amenities available, e.g. post office, banks}	Broken into 4 indicators: Satisfaction with the standard of local leisure facilities; Satisfaction with the standard of local medical services; Satisfaction with the standard of local shopping facilities; and Satisfaction with the standard of local public transport	Used 'satisfaction with services'	c_Locserb, c_Locserc, c_Locserd, c_Locsere
caring duties	Intensity of caring duties broken into 3 indicators: none, low, high		d_aidhrs



resources (2)	Housing wealth	value of the property	d_hsval
needs being met	Intergenerational Connections		Sum of c_paaid1 to c_paaid97 and c_paidu1 to c_paidu97 and c_chaid1 to c_chaid97 and c_caidu1 to
Material deprivation	Material resources (inverse of deprivation)	We created a MATERIAL DEPRIVATION indicator using: holiday, money for self, keep up with bills, house, contents insurance, savings, furniture, and electrical goods. We also created a POVERTY indicator using: One filling meal a day, Go out socially, See friends/family, Holiday away from home, Replace cooker when broken, Home good state of repair, Services in working order, Damp-free home, Home kept warm, Has a telephone, Access to a car/taxi, Has warm waterproof coat, and Able to pay unexpected expense	Sum (d_matdepa to d_matdepj), reversed to be enter into the model as 'material resources'
Income level (household, individual)	Level of earnings	other than pensions (separate indicator)	Sum of c_ficode27 - c_ficode39
Debt	Financial debt	Total amount owed	d_debty
Children	Have children (adult)	Son/daughter alive but not living in the household	c_lvrel3



Not indicators, but used in		
the analysis		
Age	Used as a differentiating factor	d_dvage
Gender	Used as a differentiating factor	d_sex
Analysed but not included in		
final model		
Access and use of ICT	We didn't use this indicator for	netuse' for Waves 1&2, 'netpuse'
	one technical statistical reason:	for Waves 3&4
	its variance suggests there is a	
	large measurement error	
Feeling safe from crime	Used 'neighbourliness', as	
	'worry about crime' question did	
	not make any difference beyond	
	the neighbourliness factor.	
Relative poverty (including	We have included the items that	Sum of d_pdepa to d_pdepo
housing indicators)	measure adult material	
	deprivation, as recommended by	
	McKay (2008) 'Measuring	
	material deprivation among	
	older people: Methodological	
	study to revise the Family	
	Resources Survey questions',	
	Working Paper No 54,	
	Department for Work and	
	Pensions.	
Religiosity	Not significant	d_oprlg (this is a different variable
		to the one asked about below)



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Religiosity, spiritual fulfilment	The correlation between this	Oprlg3. Religion makes a difference
	indicator and the previous one	to life
	was NEGATIVE	
Having children (age 16 under)	Not significant	
in the house	Not significant	
Rural/suburban/urban	Analysed, but not included	
	because per se it would not give	
	us much insight. If any	
	difference had to do with, say,	
	public transport or local	
	services we had these covered	
	already. If it was a question of	
	social networks income	
	social networks, income,	
	neighbournoods, the same.	
Not enough responses to use		
in analyses		
volunteered more than once a	Not used because over 80% of	
year	respondents with no record	
Race/ethnicity	Not used because data for fewer	
	than 2% of respondents	
protection from abuse and	Not used because 92% of	
neglect	respondents are 'not applicable'	
Encapsulated in other		
indicators		
Calm/peaceful	Part of mental wellbeing	
	(relaxed)	
involvement in democracy and	Used Civic participation	
trust in how the country is run	· · · · · · · · · · · · · · ·	



Access to leisure facilities	Not used. We used satisfaction
	with local leisure facilities
	instead
anxiety	We incorporated an index of
	mental illness and another one
	of mental wellbeing
control by the individual over	Control is not in the Big 5, but
day-to-day life (including over	USoc questions refer to
care and support provided and	'mastery' –one of the indicators
the way it is provided)	in Ryff's scale of psychological
	wellbeing. There is a huge
	overlap between the Big 5
	(particularly neuroticism,
	extraversion and
	conscientiousness) and mastery
	-see Anglim & Sharon (2016).
	'Grant Predicting Psychological
	and Subjective Well-Being from
	Personality: Incremental
	Prediction from 30 Facets Over
	the Big 5', J of Happiness Studies,
	17:59-80
have trust in national	Used political participation as
Government	part of our civic participation
	indicator.
suitability of living	Used the indicators of material
accommodation	deprivation as recommended by
	DWP (see above).



Driving licence or access to car	Used 'satisfaction with standard
	of transport'. We understand
	that satisfaction is more
	encompassing than access.
	Those respondents who said
	their satisfaction with local
	public transport was 'poor' were
	asked the reasons for such
	answer, among which we have
	'lack of transport', 'no public
	transport', 'cost of transport',
	etc. So, those who can't access to
	public transport were included
	among those who responded
	'poor'. However, if we had only
	used access, we would have lost
	the granularity that the
	satisfaction question gives us.
Services use	We used Satisfaction with
	Standard of the following local
	services: medical services,
	shops, public transport, and
	leisure facilities because use of
	some services (eg. medical) is
	hardly a choice and reflects
	needs, which we covered in, for
	example, the long-standing
	illness or the health/co-
	morbidities indicator. However,
	what's not a given is how
	satisfied someone is with the



	service they received –and that's
	what we measured.
Healthy behaviours	The only ones available were
	around amount of fruit and veg
	eaten per day/week. We tried to
	look for 'state' indicators as
	much as possible.
level of independence	We preferred to use long-
	standing illnesses and medical
	conditions (co-morbidities). We
	know that self-reported health
	status among older people tends
	to be higher than objective
	indicators would suggest for a
	number of reasons (eg,
	'Compared to Mrs X, I'm not <i>that</i>
	bad') so we opted for more
manageability of life	objective ones. Limitations due
mobility	to health were covered with
	long-standing illnesses.
Didn't use because there	
were alternative measures	
satisfaction with their lives	Correlation between predicted
overall	wellbeing scores as life
	satisfaction was high.
satisfaction with their health	We used an aggregate index of
	health conditions (see above)



health self-assessment	We used an aggregate index of	
	Manage have here here	
satisfaction with the income of	we used nousehold income by	
their nousenoid	source	
having energy to do things	We used health indicators	
satisfaction with family life	We didn't use because they are	
satisfaction with their job	dimensions of the life	
satisfaction with their amount	satisfaction construct, which we	
of leisure time	decided against incorporating as	
	part of our operational	
	definition of wellbeing.	
Not in USOC		
meaning in life		
overall quality of life		
feel sense of achievement in life		
congruence between desired		
and achieved goals		
access to health care		
self-care		
having someone they could		
really count on in a crisis		
feeling loved		
alienation		
likable		
loneliness		
intimacy		
coping		





satisfaction with living accommodation		
pain		
use of social media		
Indicators - area level (local		
up to national)		
Healthy life expectancy		
Unemployment (rate for area)		
Crimes against the person (per 1,000 adults)		
living in households with less than 60 per cent of median income after housing costs		
UK public sector net debt as a percentage of GDP		
Inflation rate (as measured by the Consumer Price index, Age UK Enterprises Silver RPI ?)		
registered voters who voted		
Total greenhouse gas emissions (millions of tonnes)		
Air pollutants - PM10 (000's tonnes)		
The extent of protected areas in the (area) (Millions hectares)		
Energy consumed within the (area) from renewable sources		