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Capability, health and travel behaviour of older people

Appendices

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Appendix A: Descriptive analysis

Appendix table A.1 Health conditions by age group							
Age groups	50-64	65-79	80+	Total			
Base (weighted)	7420	5516	1810	14746			
Asthma	6.4%	10.0%	9.1%	8.0%			
Arthritis	16.6%	34.1%	42.1%	26.3%			
Congestive heart failure	0.5%	1.2%	4.2%	1.2%			
Coronary heart disease	2.1%	5.1%	8.6%	4.0%			
Angina	2.1%	5.6%	10.3%	4.4%			
Heart attack	2.3%	6.3%	9.9%	4.7%			
Stroke	1.7%	5.1%	9.5%	3.9%			
Emphysema	0.9%	2.3%	2.4%	1.6%			
Hyperthyroidism	0.8%	1.4%	1.1%	1.1%			
Hypothyroidism	3.4%	6.5%	4.7%	4.7%			
Chronic bronchitis	1.4%	3.1%	3.1%	2.3%			
Liver condition	2.1%	2.3%	1.6%	2.1%			
Cancer or malignancy	3.8%	8.7%	12.1%	6.6%			
Diabetes	6.9%	13.1%	16.0%	10.3%			
Epilepsy	0.6%	0.7%	0.3%	0.6%			
High blood pressure	17.1%	35.9%	45.8%	27.7%			
Clinical depression	6.8%	5.0%	3.5%	5.7%			

Appendix table A.2 He	Appendix table A.2 Health conditions by sex							
Sex	Female	Male	Total					
Base (weighted)	7750	6997	14747					
Asthma	9.1%	6.9%	8.0%					
Arthritis	31.4%	20.6%	26.3%					
Congestive heart failure	1.0%	1.5%	1.2%					
Coronary heart disease	2.8%	5.3%	4.0%					
Angina	3.8%	5.0%	4.4%					
Heart attack	3.0%	6.6%	4.7%					
Stroke	3.6%	4.4%	3.9%					
Emphysema	1.6%	1.6%	1.6%					
Hyperthyroidism	1.7%	0.5%	1.1%					
Hypothyroidism	7.5%	1.7%	4.7%					
Chronic bronchitis	2.4%	2.1%	2.3%					
Liver condition	2.0%	2.3%	2.1%					
Cancer or malignancy	6.1%	7.2%	6.6%					
Diabetes	8.6%	12.2%	10.3%					
Epilepsy	0.6%	0.6%	0.6%					
High blood pressure	27.9%	27.4%	27.7%					
Clinical depression	6.8%	4.6%	5.7%					

Understanding Society Wave 7 (2015-2017). Individuals aged 50+, n = 14,747

Appendix table A.3 Impairments by age group								
Age groups	50-64	65-79	80+	Total				
Base (weighted)	7420	5516	1810	14746				
Mobility	13.4%	20.6%	38.8%	19.2%				
Lifting, carrying or moving objects	13.8%	20.2%	33.2%	18.6%				
Manual dexterity	6.2%	8.3%	14.7%	8.0%				
Continence	3.6%	5.8%	10.3%	5.3%				
Hearing	2.6%	5.1%	12.4%	4.7%				
Sight	2.3%	4.1%	11.4%	4.1%				
Communication	1.1%	1.1%	1.8%	1.2%				
Cognitive (memory, learning etc.)	5.2%	4.5%	10.7%	5.6%				
Recognising physical danger	0.8%	0.6%	0.6%	0.7%				
Physical co-ordination	4.4%	7.3%	15.7%	6.8%				
Difficulties with personal care	3.5%	4.7%	9.6%	4.7%				
Other	7.1%	7.1%	9.3%	7.4%				

Appendix table A.4 Impairments by sex							
Sex	Female	Male	Total				
Base (weighted)	7750	6997	14747				
Mobility	21.1%	17.1%	19.2%				
Lifting, carrying or moving objects	21.2%	15.7%	18.6%				
Manual dexterity	9.4%	6.5%	8.0%				
Continence	5.4%	5.1%	5.3%				
Hearing	4.3%	5.2%	4.7%				
Sight	4.5%	3.6%	4.1%				
Communication	1.0%	1.4%	1.2%				
Cognitive (memory, learning etc.)	5.7%	5.6%	5.6%				
Recognising physical danger	0.7%	0.7%	0.7%				
Physical co-ordination	7.2%	6.5%	6.8%				
Difficulties with personal care	5.3%	4.0%	4.7%				
Other	7.1%	7.7%	7.4%				

Appendix table A.5 Number of health conditions by age group ¹							
Age groups 50-64 65-79 80+ Total							
Base (weighted)	7417	5511	1810	14737			
No conditions	57.1%	27.5%	17.1%	41.1%			
Single condition	24.8%	32.2%	30.5%	28.3%			
Multiple conditions	18.1%	40.3%	52.4%	30.6%			

Understanding Society Wave 7 (2015-2017). Individuals aged 50+, n = 14,737

Appendix table A.6 Numl	Number of health conditions by sex						
Sex	Female	Male	Total				
Base (weighted)	7745	6992	14737				
No conditions	43.1%	39.3%	41.1%				
Single condition	28.1%	28.4%	28.3%				
Multiple conditions	28.7%	32.3%	30.6%				

Understanding Society Wave 7 (2015-2017). Individuals aged 50+, n = 14,737

¹ Sum of population by age group does not equal total due to rounding.

Appendix table A.7 Impairments by number of health conditions ²								
Number of conditions	No conditions	Single condition	Multiple conditions	Total				
Base (weighted)	6049	4157	4497	14703				
Mobility	7.4%	16.9%	37.2%	19.2%				
Lifting, carrying or moving objects	7.6%	16.1%	35.8%	18.6%				
Manual dexterity	2.9%	6.9%	16.0%	8.0%				
Continence	2.5%	3.7%	10.4%	5.3%				
Hearing	2.0%	3.9%	9.2%	4.7%				
Sight	1.9%	3.3%	7.8%	4.1%				
Communication	0.6%	1.1%	2.1%	1.2%				
Cognitive (memory, learning etc.)	2.7%	4.6%	10.5%	5.6%				
Recognising physical danger	0.3%	0.4%	1.4%	0.7%				
Physical co-ordination	2.6%	5.2%	14.0%	6.8%				
Difficulties with personal care	1.8%	3.5%	9.7%	4.7%				
Other	3.4%	6.1%	14.0%	7.4%				
At least one of above impairments	16.1%	30.8%	57.1%	32.8%				

Appendix table A.8 Multiple health condition cluster by age group								
Age groups	50-64	65-79	80+	Total				
Base (weighted)	1344	2216	949	<i>450</i> 8				
Heart disease plus	12.0%	15.7%	19.1%	15.3%				
High blood pressure and arthritis	19.0%	25.1%	28.8%	24.1%				
Lung and breathing conditions plus	21.1%	17.3%	14.8%	17.9%				
Arthritis, cancer and depression	13.1%	11.1%	10.2%	11.5%				
High blood pressure, cancer and depression	14.6%	12.7%	14.9%	13.7%				
Hyperthyroidism plus	13.3%	12.7%	8.1%	11.9%				
High blood pressure and diabetes	6.9%	5.4%	4.0%	5.6%				

Understanding Society Wave 7 (2015-2017). Individuals aged 50+, n = 4,508

 $^{\rm 2}$ Sum of population by number of conditions does not equal total due to rounding.

Appendix table A.9 Multiple health condition cluster by sex ³								
Sex	Female	Male	Total					
Base (weighted)	2500	2009	<i>4</i> 508					
Heart disease plus	33.3%	10.9%	15.3%					
High blood pressure and arthritis	31.1%	30.1%	24.1%					
Lung and breathing conditions plus	24.6%	21.5%	17.9%					
Arthritis, cancer and depression	17.2%	13.0%	11.5%					
High blood pressure, cancer and depression	25.8%	12.3%	13.7%					
Hyperthyroidism plus	6.7%	20.2%	11.9%					
High blood pressure and diabetes	10.8%	4.8%	5.6%					

Appendix table A.10	Impair	Impairments by multiple health condition cluster					
Multiple health condition cluster	Heart disease plus	HBP & arthritis	Lung & breathing conditions plus	Arthritis, cancer & depression	HBP, cancer & depression	Hyperthyroidism plus	HBP & diabetes
Base (weighted)	687	1085	803	518	615	538	249
Mobility	45.3%	40.7%	38.3%	39.1%	29.6%	34.7%	16.9%
Lifting, carrying or moving objects	46.8%	38.1%	38.1%	35.5%	26.3%	32.9%	18.1%
Manual dexterity	18.5%	16.8%	16.4%	20.5%	12.4%	14.8%	5.9%
Co-ordination	19.6%	13.4%	12.2%	14.6%	14.4%	13.2%	6.8%
Continence	13.2%	8.7%	11.7%	9.9%	9.1%	12.0%	7.2%
Memory	16.3	8.0%	8.0%	10.5%	13.9%	9.3%	3.2%
Hearing	11.7%	10.2%	10.5%	7.9%	9.0%	7.0%	1.8%

Understanding Society Wave 7 (2015-2017). Individuals aged 50+, n = 4,494

Appendix table A.11 Number of impairments by age group ⁴								
Age groups 50-64 65-79 80+ Total								
Base (weighted)	7406	5502	1802	14710				
No impairments	75.0%	64.4%	43.6%	67.2%				
Single impairment	9.8%	13.1%	15.3%	11.7%				
Multiple impairments	15.2%	22.5%	41.1%	21.1%				

 $^{^{3}}$ Sum of population by age group does not equal total due to rounding.

⁴ Impairments considered in this analysis were: (1) Mobility, (2) Lifting, carrying or moving objects, (3) Manual dexterity, (4) Continence, (5) Hearing, (6) Sight, (7) Communication, (8) Memory, (9) Recognising physical danger, (10) Physical co-ordination, (11) Difficulty with personal care, and (12) Other.

Appendix table A.12 Number of impairments by sex						
Sex	Female	Male	Total			
Base (weighted)	7732	6979	14711			
No impairments	65.6%	68.9%	67.2%			
Single impairment	11.5%	12.0%	11.7%			
Multiple impairments	22.9%	19.1%	21.1%			

Appendix table A.13 Severity of impairment by age group					
Age groups		50-64	65-79	80+	Total
Base (weighted)		7420	5516	1810	14746
	No difficulty	86.6%	79.4%	61.2%	80.8%
Mobility	Some difficulty	7.6%	12.4%	19.6%	10.9%
Wiodility	A lot of difficulty	5.6%	8.0%	18.5%	8.1%
	Unable to do this	0.1%	0.2%	0.7%	0.2%
	No difficulty	86.2%	79.8%	66.9%	81.4%
Lifting, carrying or	Some difficulty	7.4%	10.6%	13.2%	9.3%
moving objects	A lot of difficulty	5.7%	7.9%	16.2%	7.8%
	Unable to do this	0.8%	1.7%	3.8%	1.5%
	No difficulty	93.8%	91.7%	85.3%	92.0%
Manual dexterity	Some difficulty	3.9%	5.1%	9.1%	5.0%
Wallual Gexterity	A lot of difficulty	2.3%	3.0%	5.2%	2.9%
	Unable to do this	0.1%	0.1%	0.4%	0.1%
Continence	No difficulty	96.4%	94.2%	89.8%	94.7%
	Some difficulty	2.3%	4.2%	7.1%	3.6%
Continence	A lot of difficulty	1.2%	1.6%	3.2%	1.6%
	Unable to do this	0.1%	0.1%	0.0%	0.1%
	No difficulty	97.4%	94.9%	87.6%	95.3%
Hearing	Some difficulty	1.8%	3.9%	7.9%	3.3%
ricaring	A lot of difficulty	0.7%	1.1%	4.4%	1.3%
	Unable to do this	0.0%	0.1%	0.1%	0.1%
	No difficulty	97.7%	96.0%	88.6%	95.9%
Sight	Some difficulty	1.4%	3.0%	6.2%	2.6%
Signi	A lot of difficulty	0.9%	1.1%	5.0%	1.4%
	Unable to do this	0.1%	0.0%	0.2%	0.1%
	No difficulty	94.8%	95.5%	89.4%	94.4%
Memory	Some difficulty	3.5%	3.3%	7.9%	4.0%
incilior y	A lot of difficulty	1.7%	1.1%	2.7%	1.6%
	Unable to do this	0.0%	0.0%	0.1%	0.0%

Appendix table A.13 Severity of impairment by age group					
Age groups 50-64 65-79 80+				Total	
Base (weighted)		7420	5516	1810	14746
	No difficulty	99.2%	99.5%	99.4%	99.4%
Dhysical danger	Some difficulty	0.5%	0.4%	0.4%	0.4%
Physical danger	A lot of difficulty	0.3%	0.1%	0.1%	0.2%
	Unable to do this	0.0%	0.0%	0.1%	0.0%
	No difficulty	95.7%	92.7%	84.4%	93.2%
Coordination	Some difficulty	2.6%	4.8%	10.4%	4.4%
Coordination	A lot of difficulty	1.7%	2.4%	4.9%	2.3%
	Unable to do this	0.0%	0.1%	0.4%	0.1%
	No difficulty	96.5%	95.3%	90.4%	95.3%
Personal care	Some difficulty	2.3%	2.8%	5.2%	2.8%
reisonai cale	A lot of difficulty	1.1%	1.5%	3.4%	1.5%
	Unable to do this	0.1%	0.4%	0.9%	0.3%

Appendix table A.14 Severity of impairment by sex					
Sex		Female	Male	Total	
Base (weighted)		7750	6997	14747	
	No difficulty	78.9%	80.8%	82.9%	
Mobility	Some difficulty	11.9%	10.9%	9.8%	
Mobility	A lot of difficulty	9.0%	8.1%	7.0%	
	Unable to do this	0.2%	0.2%	0.3%	
	No difficulty	78.8%	81.4%	84.3%	
Lifting, carrying	Some difficulty	10.5%	9.3%	8.0%	
or moving objects	A lot of difficulty	9.1%	7.8%	6.4%	
,	Unable to do this	1.6%	1.5%	1.3%	
	No difficulty	90.6%	92.0%	93.5%	
Monriel destants	Some difficulty	5.8%	5.0%	4.1%	
Manual dexterity	A lot of difficulty	3.4%	2.9%	2.3%	
	Unable to do this	0.1%	0.1%	0.1%	
	No difficulty	94.6%	94.7%	95.0%	
Continence	Some difficulty	3.6%	3.6%	3.6%	
Continence	A lot of difficulty	1.8%	1.6%	1.3%	
	Unable to do this	0.1%	0.1%	0.1%	
	No difficulty	95.7%	94.8%	95.3%	
Hooring	Some difficulty	2.9%	3.8%	3.3%	
Hearing	A lot of difficulty	1.3%	1.3%	1.3%	
	Unable to do this	0.1%	0.1%	0.1%	

Appendix table A.14 Severity of impairment by sex						
Sex		Female	Male	Total		
Base (weighted)		7750	6997	14747		
	No difficulty	95.5%	96.4%	95.9%		
C: mb4	Some difficulty	2.8%	2.3%	2.6%		
Sight	A lot of difficulty	1.6%	1.3%	1.4%		
	Unable to do this	0.1%	0.0%	0.1%		
	No difficulty	99.0%	98.6%	98.8%		
Communication	Some difficulty	0.8%	1.0%	0.9%		
or speech problems	A lot of difficulty	0.3%	0.4%	0.3%		
	Unable to do this	0.0%	0.0%	0.0%		
	No difficulty	94.3%	94.5%	94.4%		
Momory	Some difficulty	3.8%	4.1%	4.0%		
Memory	A lot of difficulty	1.8%	1.4%	1.6%		
	Unable to do this	0.0%	0.0%	0.0%		
	No difficulty	99.4%	99.4%	99.4%		
Physical danger	Some difficulty	0.4%	0.5%	0.4%		
Physical danger	A lot of difficulty	0.2%	0.1%	0.2%		
	Unable to do this	0.0%	0.0%	0.0%		
	No difficulty	92.8%	93.5%	93.2%		
Coordination	Some difficulty	4.8%	4.0%	4.4%		
Coordination	A lot of difficulty	2.3%	2.3%	2.3%		
	Unable to do this	0.1%	0.1%	0.1%		

Appendix table A.15 Difficulty with ADL/IADL tasks by age group						
Age groups	50-64	65-79	80+	Total		
Base (weighted)	1837	2903	874	5614		
No difficulties	85.9%	81.4%	62.8%	80.0%		
Difficulty with a single task	7.8%	10.7%	15.4%	10.5%		
Difficulty with several tasks	3.6%	4.1%	10.5%	4.9%		
Difficulty with all tasks	2.6%	3.9%	11.2%	4.6%		

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 5,614

Appendix table A.16 Difficulty with ADL/IADL tasks by sex						
Sex Female Male Total						
Base (weighted)	3013	2601	5614			
No difficulties	77.5%	82.8%	80.0%			
Difficulty with a single task	11.2%	9.7%	10.5%			
Difficulty with several tasks	5.6%	4.1%	4.9%			
Difficulty with all tasks	5.7%	3.3%	4.6%			

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 5,614

Appendix table A.17 Difficulty with individual ADL/IADL tasks by age group					
	Age groups	50-64	65-79	80+	Total
	Base (weighted)	4197	2953	1002	8152
	Dressing, inc. shoes & socks	7.5%	12.7%	24.4%	11.4%
ADL	Walking across a room	1.8%	3.8%	11.6%	3.7%
¥	Using the toilet (inc. up/down)	2.4%	3.6%	8.1%	3.5%
	Eating, such as cutting up food	1.4%	1.8%	5.9%	2.1%
	Using a map in a strange place	2.2%	4.2%	13.0%	4.3%
	Recognising physical danger	1.0%	0.9%	4.3%	1.4%
IADL	Shopping for groceries	5.4%	8.1%	27.1%	9.1%
_	Taking medications	1.5%	2.0%	7.4%	2.4%
	Managing money	1.8%	2.6%	11.9%	3.3%

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appe	Appendix table A.18 Difficulty with individual ADL/IADL tasks by sex					
	Sex	Female	Male	Total		
	Base (weighted)	<i>4</i> 2 <i>7</i> 5	3877	8152		
	Dressing, inc. shoes & socks	11.6%	11.3%	11.4%		
ADL	Walking across a room	4.5%	2.8%	3.7%		
A	Using the toilet (inc. up or down)	4.4%	2.6%	3.5%		
	Eating, such as cutting up food	2.7%	1.5%	2.1%		
	Using a map in a strange place	6.2%	2.2%	4.3%		
	Recognising physical danger	1.6%	1.2%	1.4%		
ADL	Shopping for groceries	12.0%	5.8%	9.1%		
-	Taking medications	2.4%	2.3%	2.4%		
	Managing money	3.8%	2.8%	3.3%		

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appendix table A.19 Other difficulties by age group						
Age groups	50-64	65-79	80+	Total		
Base (weighted)	1836	2903	875	5614		
No other difficulties	89.1%	81.9%	46.6%	78.8%		
One other difficulty	7.8%	12.9%	30.9%	14.1%		
Several other difficulties	0.5%	2.1%	7.8%	2.5%		
All other difficulties	2.5%	3.1%	14.7%	4.7%		

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 5,614

Appendix table A.20 Other difficulties by sex						
Sex	Female	Male	Total			
Base (weighted)	3012	2602	5614			
No other difficulties	76.2%	81.8%	78.8%			
One other difficulty	14.9%	13.1%	14.1%			
Several other difficulties	3.1%	1.8%	2.5%			
All other difficulties	5.9%	3.3%	4.7%			

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 5,614

Appendix table A.21 Other difficulties (individual) by age group						
50-64	65-79	80+	Total			
4197	2953	1002	8152			
7.5%	13.6%	35.0%	13.1%			
12.3%	13.4%	15.5%	13.1%			
18.3%	25.7%	41.7%	23.8%			
17.9%	34.7%	61.7%	29.4%			
7.8%	15.3%	39.6%	14.4%			
26.4%	40.1%	63.3%	35.9%			
8.6%	10.7%	20.6%	10.8%			
11.3%	17.1%	37.9%	16.7%			
14.1%	22.8%	46.1%	21.2%			
3.1%	6.3%	13.2%	5.5%			
	50-64 4197 7.5% 12.3% 18.3% 17.9% 7.8% 26.4% 8.6% 11.3% 14.1%	50-64 65-79 4197 2953 7.5% 13.6% 12.3% 13.4% 18.3% 25.7% 17.9% 34.7% 7.8% 15.3% 26.4% 40.1% 8.6% 10.7% 11.3% 17.1% 14.1% 22.8%	50-64 65-79 80+ 4197 2953 1002 7.5% 13.6% 35.0% 12.3% 13.4% 15.5% 18.3% 25.7% 41.7% 17.9% 34.7% 61.7% 7.8% 15.3% 39.6% 26.4% 40.1% 63.3% 8.6% 10.7% 20.6% 11.3% 17.1% 37.9% 14.1% 22.8% 46.1%			

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appendix table A.22 Other difficulties (individual) by sex						
Sex	Female	Male	Total			
Base (weighted)	<i>4</i> 275	3877	8152			
Walking 100 yards	15.0%	11.0%	13.1%			
Sitting for about 2 hours	14.5%	11.6%	13.1%			
Getting up from a chair	27.2%	20.1%	23.8%			
Climbing > 1 flights of stairs (no rest)	35.7%	22.4%	29.3%			
Climbing 1 flight of stairs (no rest)	18.4%	10.0%	14.4%			
Stooping, kneeling or crouching	40.7%	30.6%	35.9%			
Reaching or extending arms	13.3%	8.2%	10.8%			
Pulling or pushing large objects	22.3%	10.5%	16.7%			
Lifting or carrying objects (>10lbs)	29.2%	12.2%	21.2%			
Picking up a 5p coin from a table	6.4%	4.5%	5.5%			

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appendix table A.23 Frequency of public transport use by difficulties with ADL/IADL tasks								
Difficulty with ADL/IADL tasks	None	Single	Several	All	Total			
Base (weighted)	4489	589	277	259	5614			
Every day or nearly every day	7.7%	7.5%	4.1%	6.2%	7.4%			
Two or three times a week	14.8%	14.4%	10.3%	9.9%	14.3%			
Once a week	8.0%	8.6%	4.3%	10.4%	8.0%			
Two or three times a month	10.5%	6.3%	4.8%	6.7%	9.6%			
Once a month or less	33.5%	25.1%	13.6%	19.0%	30.9%			
Never	25.7%	38.1%	62.8%	47.8%	29.8%			

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 5,614

Appendix table A.24 Use of mobility aids by age group							
Age groups	50-64	65-79	80+	Total			
Base (weighted)	4197	2953	1002	8152			
Cane / walking stick	6.2%	16.3%	46.3%	14.8%			
Zimmer frame / walker	0.7%	3.2%	19.7%	3.9%			
Manual wheelchair	0.9%	2.6%	9.1%	2.5%			
Electric wheelchair	0.2%	0.5%	1.1%	0.4%			
Buggy or scooter	0.8%	2.7%	6.1%	2.1%			
Personal alarm	0.3%	2.0%	12.0%	2.3%			
Elbow crutches	0.9%	1.7%	1.4%	1.2%			
Hearing aids	3.2%	14.0%	35.5%	11.0%			

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appendix table A.25 Use of mobility aids by sex						
Sex	Female	Male	Total			
Base (weighted)	<i>4</i> 275	3877	8152			
Cane / walking stick	16.6%	12.8%	14.8%			
Zimmer frame / walker	5.4%	2.3%	3.9%			
Manual wheelchair	3.2%	1.7%	2.5%			
Electric wheelchair	0.5%	0.4%	0.4%			
Buggy or scooter	2.3%	1.9%	2.1%			
Personal alarm	3.3%	1.3%	2.3%			
Elbow crutches	1.3%	1.1%	1.2%			
Hearing aids	9.8%	12.3%	11.0%			

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appendix table A.26 Num	Number of mobility aids used (0-7) by age group							
Age groups	50-64	65-79	80+	Total				
Base (weighted)	4197	2953	1002	8152				
None	92.8%	80.6%	42.8%	82.3%				
Single aid	5.3%	13.4%	30.2%	11.3%				
Two aids	1.3%	3.4%	16.5%	3.9%				
Three (or more) aids	0.5%	2.5%	10.5%	2.5%				

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appendix table A.27 Numb	Number of mobility aids used (0-7) by sex						
Sex	Female Male Total						
Base (weighted)	4275	3877	8152				
None	79.7%	85.2%	82.3%				
Single aid	12.2%	10.3%	11.3%				
Two aids	5.1%	2.7%	3.9%				
Three (or more) aids	3.1%	1.8%	2.5%				

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appendix table A.28 Self-reported general health by age group								
Age groups	50-64	65-79	80+	Total				
Base (weighted)	4197	2953	1002	8152				
Excellent health	17.6%	8.9%	4.0%	12.3%				
Very good health	30.7%	28.7%	20.7%	27.7%				
Good health	30.6%	33.8%	32.7%	30.8%				
Fair health	14.0%	20.8%	30.1%	17.7%				
Poor health	7.1%	7.9%	12.5%	7.8%				

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appendix table A.29 Self-reported general health by sex						
Sex	Female	Male	Total			
Base (weighted)	4275	3877	8152			
Excellent health	12.7%	12.9%	12.3%			
Very good health	27.0%	30.8%	27.7%			
Good health	32.1%	31.9%	30.8%			
Fair health	19.6%	17.0%	17.7%			
Poor health	8.6%	7.4%	7.8%			

English Longitudinal Study of Ageing Wave 7 (2014-2015). Individuals aged 50+, n = 8,152

Appendix B: Multivariate analysis

Appendix table B.1 Characteristics associate	ted with having one or more health conditions	
		One or more conditions
Age (Ref = 50-59)	60-64	3.027*** (0.191)
	65-69	3.069*** (0.235)
	70-79	4.377*** (0.348)
	80+	6.129*** (0.609)
Sex (Ref = Male)	Female	1.089** (0.044)
Region (Ref = East Midlands)	East of England	1.007 (0.093)
	London	0.788** (0.080)
	North East	1.060 (0.121)
	North West	1.134 (0.103)

		Ome on mone and little and
		One or more conditions
Region	Northern Ireland	0.638***
Ref = East Midlands)		(0.063)
	Scotland	0.750***
		(0.069)
	South East	0.908
		(0.077)
	South West	0.948
		(0.086)
	Wales	0.763***
		(0.073)
	West Midlands	1.060
		(0.103)
	Yorkshire and Humber	0.967
		(0.092)
Jrban/rural	Urban	1.149***
Ref = Rural)		(0.050)
Employment status	Retired	1.552***
Ref = Employed)		(0.096)
	Unemployed	2.278***
		(0.320)
	Sick	5.038***
		(0.582)

		One or more conditions
Employment status	Other	1.189
(Ref = Employed)		(0.148)
Household composition	Couple	0.741***
(Ref = Single adult)		(0.039)
	Two adults	0.815**
		(0.085)
	Three adults	0.707***
		(0.047)
Children in household	Mentioned	0.721***
(Ref = None)		(0.045)
		'
	Observations	14,734
	R ²	0.142

Notes: * p < 0.1, ** p < 0.05, *** p <0.01. Logistic regression (complex surveys), with coefficients expressed as odds ratios. Understanding Society, Wave 7 (2015-2017). Standard errors (log base) in parentheses.

		Mobility	Lifting	Manual dexterity	Continence	Hearing	Memory	Coordination
Health conditions								
Asthma	Mentioned	1.083	1.301	1.253	0.549	0.846	0.789	0.434**
(Ref = Not mentioned)		(0.322)	(0.357)	(0.488)	(0.219)	(0.392)	(0.321)	(0.174)
Arthritis	Mentioned	1.710***	1.427**	2.061***	0.704	1.394	0.402***	1.240
(Ref = Not mentioned)		(0.287)	(0.221)	(0.453)	(0.175)	(0.348)	(0.096)	(0.284)
Angina	Mentioned	0.925	1.564*	0.819	0.885	1.002	0.944	0.938
(Ref = Not mentioned)		(0.224)	(0.366)	(0.246)	(0.304)	(0.312)	(0.293)	(0.271)
Heart attack	Mentioned	1.243	1.608**	0.762	0.459**	1.002	0.874	0.640
(Ref = Not mentioned)		(0.295)	(0.384)	(0.231)	(0.154)	(0.339)	(0.295)	(0.200)
Hypothyroidism	Mentioned	0.523	0.480	0.313	0.422	0.511	1.108	0.526
(Ref = Not mentioned)		(0.301)	(0.254)	(0.226)	(0.349)	(0.375)	(0.864)	(0.370)
Cancer	Mentioned	0.799	1.123	1.068	1.134	0.637**	0.784	0.582***
(Ref = Not mentioned)		(0.139)	(0.173)	(0.220)	(0.251)	(0.145)	(0.174)	(0.118)
Diabetes	Mentioned	0.470***	0.947	0.883	1.726**	1.373	0.992	0.621**
(Ref = Not mentioned)		(0.081)	(0.153)	(0.178)	(0.405)	(0.370)	(0.230)	(0.131)
High blood pressure	Mentioned	0.702**	0.760*	0.803	0.667	0.888	0.585**	0.599**
(Ref = Not mentioned)		(0.126)	(0.125)	(0.184)	(0.165)	(0.220)	(0.141)	(0.133)
Clinical depression	Mentioned	0.593**	0.777	0.559**	0.478**	0.425***	0.930	0.676
(Ref = Not mentioned)		(0.139)	(0.168)	(0.154)	(0.140)	(0.140)	(0.266)	(0.190)
Number of conditions		1.333***	1.175*	1.318**	1.383***	1.292**	1.369***	1.660***
		(0.131)	(0.106)	(0.142)	(0.173)	(0.167)	(0.159)	(0.186)

				Manual				
		Mobility	Lifting	dexterity	Continence	Hearing	Memory	Coordination
lealth condition cluster	No conditions	0.623***	0.475***	0.726	0.579***	0.676*	0.372***	0.814
Ref = Single health		(0.084)	(0.061)	(0.154)	(0.119)	(0.136)	(0.076)	(0.162)
condition)	Heart disease plus	1.371	1.643**	1.088	1.480	0.790	1.709*	1.564*
		(0.297)	(0.332)	(0.296)	(0.465)	(0.224)	(0.502)	(0.424)
	HBP and arthritis	1.498**	1.594***	1.134	1.173	1.040	1.351	1.092
		(0.262)	(0.261)	(0.248)	(0.282)	(0.267)	(0.351)	(0.245)
	Lung & breathing	0.875	1.209	0.957	1.531	1.336	1.155	1.680
	conditions plus	(0.211)	(0.261)	(0.305)	(0.486)	(0.461)	(0.408)	(0.561)
	Arthritis, cancer &	1.224	1.176	1.222	0.912	0.683	1.379	1.084
	depression	(0.206)	(0.191)	(0.232)	(0.210)	(0.174)	(0.327)	(0.230)
	HBP, cancer &	1.525**	1.342*	1.139	1.461	0.933	1.059	1.157
	depression	(0.275)	(0.219)	(0.271)	(0.347)	(0.239)	(0.231)	(0.258)
	Hyperthyroidism	1.876	3.262**	2.612	2.226	1.961	0.676	1.287
	plus	(0.951)	(1.589)	(1.733)	(1.725)	(1.347)	(0.482)	(0.827)
	HBP & diabetes	2.360***	1.413	0.770	0.459**	0.797	1.183	1.356
		(0.605)	(0.351)	(0.305)	(0.173)	(0.319)	(0.486)	(0.449)

				Manual				
		Mobility	Lifting	dexterity	Continence	Hearing	Memory	Coordination
Control variables								
Age group	65-79	0.845**	0.810***	0.731***	0.949	0.945	1.001	0.797*
(Ref = 50-64)		(0.073)	(0.063)	(0.078)	(0.119)	(0.125)	(0.132)	(0.095)
	80+	1.194	0.955	0.853	0.921	1.068	1.597**	0.978
		(0.174)	(0.130)	(0.156)	(0.189)	(0.219)	(0.343)	(0.185)
Sex		-	-	-	-	-	-	-
(Omitted – no change)		-	-	-	-	-	-	-
Region	East of	0.799	0.741	2.225	0.145*	0.335	2.105	0.902
(Ref = East Midlands)	England	(0.453)	(0.421)	(1.447)	(0.159)	(0.360)	(1.874)	(0.680)
	London	5.914**	1.645	1.089	-	-	18.34*	1.629
		(5.351)	(1.275)	(1.280)	-	-	(29.12)	(1.848)
	North East	0.109*	1.285	6.538	0	6.161	6.965	2.064
		(0.134)	(1.185)	(8.677)	(0.001)	(8.691)	(12.05)	(2.271)
	North West	1.349	0.578	0.512	0.0500**	7.396	0	0.533
		(1.190)	(0.439)	(0.448)	(0.072)	(9.528)	(0.001)	(0.455)
	Northern	757,804	54,773	0	-	-	-	-
	Ireland	(0)	(0)	(0.040)	-	-	-	-
	Scotland	3.988	0.124**	0.129	-	0	7.791	0.644
		(4.578)	(0.115)	(0.186)	_	(0.002)	(11.94)	(1.050)

Appendix table B.2	Relationship between	n impairme nts a	and ne alth cor	iditions				
		Mobility	Lifting	Manual dexterity	Continence	Hearing	Memory	Coordination
Region (Ref = East Midlands)	South East	1.290 (0.937)	0.535 (0.340)	0.931 (0.725)	0.215 (0.203)	11.32 (19.29)	83.25** (148.6)	3.211 (3.399)
	South West	2.508 (2.008)	1.381 (0.862)	0.491 (0.411)	0.273 (0.376)	8.555 (11.58)	3.598 (4.497)	3.526 (3.609)
	Wales	1.176 (1.049)	0.314 (0.243)	2.686 (2.838)	0.223 (0.314)	5.556 (11.63)	3.501 (4.959)	0.657 (0.618)
	West Midlands	3.011 (2.513)	1.622 (1.175)	0.480 (0.453)	0.315 (0.432)	(0) (0.002)	5.850 (7.083)	0.421 (0.393)
	Yorkshire and Humber	0.327 (0.226)	0.377 (0.277)	1.558 (1.783)	0.163 (0.220)	8.521 (11.69)	5.910 (8.926)	1.501 (1.831)
Urban/rural (Ref = Rural)	Urban	0.883 (0.190)	0.798 (0.159)	1.091 (0.271)	1.155 (0.359)	0.939 (0.341)	1.076 (0.342)	1.294 (0.331)
Work status (Ref = Employed)	Retired	1.065 (0.096)	1.135 (0.096)	1.237* (0.158)	1.378** (0.204)	0.830 (0.128)	1.396** (0.211)	1.249 (0.181)
	Unemployed	1.190 (0.184)	1.299* (0.184)	1.176 (0.250)	1.918** (0.491)	0.669 (0.182)	1.472* (0.317)	1.221 (0.281)
	Sick	2.967*** (0.402)	3.298*** (0.426)	2.263*** (0.349)	2.244*** (0.414)	1.335 (0.289)	2.585*** (0.448)	2.457*** (0.416)
	Other	1.181 (0.179)	1.216 (0.170)	1.248 (0.251)	1.305 (0.325)	0.840 (0.233)	2.043*** (0.484)	1.399 (0.316)

Appendix table B.2	Relationship between	impairments a	and health con	ditions				
		Mobility	Lifting	Manual dexterity	Continence	Hearing	Memory	Coordination
Household composition (Ref = Single adult)	Couple	0.751** (0.098)	1.053 (0.127)	0.972 (0.154)	0.817 (0.148)	1.165 (0.218)	0.887 (0.161)	0.710** (0.118)
	Two adults	1.129 (0.181)	1.169 (0.170)	1.025 (0.196)	0.970 (0.234)	0.864 (0.220)	1.189 (0.264)	1.057 (0.220)
	Three adults	0.661*** (0.098)	0.885 (0.123)	0.890 (0.166)	0.672* (0.149)	0.829 (0.193)	0.792 (0.169)	0.706* (0.141)
Children in household (Ref = None)	Mentioned	0.842 (0.090)	0.966 (0.095)	0.893 (0.117)	0.803 (0.137)	0.970 (0.169)	0.934 (0.140)	1.015 (0.150)
	Observations	19,030	21,427	12,202	8,826	8,866	8,972	10,847
	R ²	0.032	0.026	0.018	0.021	0.017	0.027	0.026

Notes: *p < 0.1, **p < 0.05, ***p < 0.01. Fixed effects logistic regression (longitudinal data), with coefficients expressed as odds ratios. Understanding Society, Waves 1-7 (2009-2017). Standard errors (log base) in parentheses.

		Frequency of car travel	Frequency of bus travel	Frequency of train travel	Frequency of bicycle travel	Distance driver
Health conditions						
Asthma	Mentioned	0.253	-0.664*	0.273	-0.317	0.358
(Ref = Not mentioned)		(0.391)	(0.400)	(0.353)	(0.210)	(0.243)
Arthritis	Mentioned	-0.151	0.096	0.368*	-0.081	0.012
(Ref = Not mentioned)		(0.211)	(0.214)	(0.190)	(0.113)	(0.139)
Angina	Mentioned	-0.290	-0.116	-0.036	0.080	0.369
(Ref = Not mentioned)		(0.346)	(0.351)	(0.312)	(0.185)	(0.228)
Heart attack	Mentioned	-0.432	0.440	-0.029	0.031	0.261
(Ref = Not mentioned)		(0.327)	(0.331)	(0.295)	(0.175)	(0.227)
Hypothyroidism	Mentioned	-0.175	-0.060	0.530	-0.190	-0.105
(Ref = Not mentioned)		(0.562)	(0.571)	(0.508)	(0.302)	(0.303)
Cancer	Mentioned	-0.049	-0.055	0.170	-0.036	0.321**
(Ref = Not mentioned)		(0.202)	(0.205)	(0.182)	(0.108)	(0.154)
Diabetes	Mentioned	0.064	0.369	-0.079	-0.255**	0.073
(Ref = Not mentioned)		(0.234)	(0.238)	(0.212)	(0.126)	(0.160)
High blood pressure	Mentioned	-0.085	0.328	-0.058	0.061	0.110
(Ref = Not mentioned)		(0.220)	(0.224)	(0.199)	(0.118)	(0.137)
Clinical depression	Mentioned	-0.429	-0.116	0.447	0.056	0.394**
(Ref = Not mentioned)		(0.327)	(0.332)	(0.295)	(0.175)	(0.182)
Number of conditions		0.148	-0.078	-0.172	0.018	-0.296***
		(0.134)	(0.135)	(0.120)	(0.072)	0.095
Haalth agudition alveter						
Health condition cluster Health condition cluster	No conditions	0.232	-0.178	0.004	0.095	-0.161*
(Ref = Single health condition)	No conditions	(0.148)	(0.151)	(0.134)	(0.080)	(0.092)

		Frequency of car travel	Frequency of bus travel	Frequency of train travel	Frequency of bicycle travel	Distance driver
Health condition cluster (Ref = Single health	Heart disease plus	0.332	-0.298	0.068	0.058	0.093
condition)		(0.263)	(0.267)	(0.237)	(0.141)	(0.211)
	HBP and arthritis	0.304	-0.221	0.030	-0.106	0.196
		(0.230)	(0.233)	(0.207)	(0.123)	(0.145)
	Lung & breathing					
	conditions plus	-0.207	0.485*	-0.169	0.239	0.161
		(0.288)	(0.293)	(0.260)	(0.155)	(0.196)
	Arthritis, cancer &	0.044				0.000##
	depression	0.014	-0.057	-0.060	-0.089	0.308**
	1155	(0.230)	(0.234)	(0.208)	(0.123)	(0.154)
	HBP, cancer &	0.191	-0.091	0.197	0.004	0.161
	depression					
	Hyperthyroidism	(0.209)	(0.213)	(0.189)	(0.112)	(0.150)
	plus	0.504	0.105	-0.833	0.071	0.500*
	Pido	(0.575)	(0.584)	(0.519)	(0.308)	(0.267)
	HBP & diabetes	0.798***	-0.375	0.346	0.233	0.303
	TIDI & diabotos	(0.307)	(0.312)	(0.277)	(0.165)	(0.215)
		(0.007)	(0.012)	(0.211)	(0.100)	(0.210)
Control variables						
Age group	65-79	0.080	-0.019	0.082	0.038	0.080
Ref = 50-64)		(0.086)	(0.088)	(0.080)	(0.046)	(0.056)
•	80+	-0.064	0.216	0.174	0.104	0.056
		(0.163)	(0.166)	(0.147)	(0.088)	(0.124)
Sex	Female	1.697	1.661	0.120	0.357	-2.081***
Ref = Male)		(1.220)	(1.240)	(1.102)	(0.654)	(0.779)

		Frequency of car travel	Frequency of bus travel	Frequency of train travel	Frequency of bicycle travel	Distance driver
Region	East of England	0.020	0.499	0.728	-0.085	-0.530
(Ref = East Midlands)	_	(0.570)	(0.579)	(0.515)	(0.306)	(0.393)
	London	-1.719**	-0.235	0.231	-0.207	-1.293**
		(0.767)	(0.780)	(0.693)	(0.412)	(0.522)
	North East	0.046	1.118	0.891	0.020	-
		(0.711)	(0.722)	(0.642)	(0.381)	-
	North West	1.197*	-0.359	1.616**	-0.989**	-0.749
		(0.722)	(0.734)	(0.653)	(0.387)	(0.514)
	Northern Ireland	-	-	-	-	-
		-	-	-	-	-
	Scotland	-0.005	1.216	1.466**	-1.617***	0.792
		(0.826)	(0.839)	(0.746)	(0.443)	(0.556)
	South East	0.231	-0.603	0.625	-0.240	-0.953**
		(0.799)	(0.812)	(0.722)	(0.429)	(0.417)
	South West	0.230	-0.376	0.114	-0.342	-0.608
		(0.671)	(0.682)	(0.606)	(0.360)	(0.484)
	Wales	1.349	0.774	-0.944	-0.914	-1.577**
		(1.047)	(1.064)	(0.946)	(0.561)	(0.711)
	West Midlands	-0.208	-0.246	0.814	-0.324	-1.218**
		(0.797)	(0.810)	(0.720)	(0.427)	(0.485)
	Yorks. & Humber	-0.013	-0.569	1.118*	-0.008	-0.230
		(0.667)	(0.678)	(0.603)	(0.358)	(0.829)
Jrban/rural	Urban	-0.012	0.418**	0.073	0.110	-0.064
(Ref = Rural)		(0.209)	(0.212)	(0.189)	(0.112)	(0.134)
Work status	Retired	-0.334***	0.083	0.022	0.088*	-0.128**
(Ref = Employed)		(0.085)	(0.086)	(0.077)	(0.046)	(0.057)

		Frequency of car travel	Frequency of bus travel	Frequency of train travel	Frequency of bicycle travel	Distance driven
Work status	Unemployed	-0.425***	-0.241	0.194	0.049	-0.257**
(Ref = Employed)		(0.154)	(0.156)	(0.139)	(0.083)	(0.111)
	Sick	-0.450***	-0.159	0.258*	0.131	-0.373***
		(0.165)	(0.167)	(0.148)	(0.088)	(0.129)
	Other	-0.194	-0.145	0.103	0.219***	-0.136
		(0.148)	(0.151)	(0.134)	(0.080)	(0.111)
Household composition	Couple	0.170	-0.101	0.087	0.067	-0.121
(Ref = Single)		(0.142)	(0.145)	(0.129)	(0.076)	(0.100)
	Two adults	0.053	0.001	0.206	0.025	0.084
		(0.167)	(0.170)	(0.151)	(0.0895)	(0.117)
	Three adults	0.216	-0.210	0.210	0.033	-0.191*
		(0.158)	(0.161)	(0.143)	(0.085)	(0.111)
Kids in household	Mentioned	0.067	-0.017	-0.023	-0.049	-0.056
(Ref = Not mentioned)		(0.109)	(0.111)	(0.099)	(0.059)	(0.070)
Model specific variables						
Wave	Wave 6	0.019	-0.058**	-0.042*	0.004	-0.108***
(Ref = Wave 4)		(0.027)	(0.027)	(0.024)	(0.014)	(0.024)
Constant		-3.839***	-6.108***	-6.329***	-5.034***	6.019***
		(0.845)	(0.858)	(0.763)	(0.453)	(0.501)
	Observations	16,499	16,497	16,502	16,502	13,210
	R ²	0.008	0.006	0.006	0.007	0.018

Notes: *p < 0.1, **p < 0.05, ***p < 0.01. Fixed effects OLS regression (longitudinal data). Understanding Society, Waves 4, 6 (2012-2016). Standard errors in parentheses.

		Frequency of car use	Frequency of bus use	Frequency of train use	Frequency of bicycle use
		OLS regression	OLS regression	OLS regression	OLS regression
Mobility	Some difficulty	-0.086	-0.282***	-0.180***	-0.174***
(Ref = No impairment)		(0.054)	(0.075)	(0.044)	(0.045)
, , ,	A lot of difficulty	-0.200***	-1.154***	-0.365***	-0.242***
		(0.060)	(0.083)	(0.049)	(0.050)
	Unable to do this	-1.863***	-2.323***	-0.398	-0.317
		(0.308)	(0.425)	(0.249)	(0.258)
Lifting/carrying objects	Some difficulty	-0.020	-0.171**	-0.191***	-0.260***
(Ref = No impairment)		(0.059)	(0.081)	(0.047)	(0.049)
, ,	A lot of difficulty	-0.061	-0.863***	-0.339***	-0.278***
		(0.063)	(0.087)	(0.050)	(0.052)
	Unable to do this	-0.456***	-1.278***	-0.420***	-0.282***
		(0.123)	(0.170)	(0.099)	(0.103)
Manual dexterity	Some difficulty	0.003	-0.122	-0.063	-0.184**
/Ref = No impairment)		(0.085)	(0.121)	(0.070)	(0.073)
	A lot of difficulty	0.101	-0.884***	-0.298***	-0.188**
		(0.104)	(0.145)	(0.085)	(0.088)

⁵ This table corresponds to Figure 4.26 in the report. It is based on 48 separate regressions (one for each mode of transport (4) and each impairment type (12)) and simplifies the model output. In each model, the variables controlled for were: health conditions, age group, gender, region, urban/rural and employment status. The model with the smallest number of observations (5,977) was for recognising physical danger and car travel.

Appendix table B.4 Longit	tudinal regression analys	is: relationship between	travel frequency and sev	erity of impairment ⁵	
		Frequency of car use	Frequency of bus use	Frequency of train use	Frequency of bicycle use
Manual dexterity	Unable to do this	-1.266***	-2.180***	0.025	-0.184
Ref = No impairment)		(0.476)	(0.667)	(0.391)	(0.405)
Continence	Some difficulty	-0.191*	-0.095	-0.031	-0.044
'Ref = No impairment)		(0.099)	(0.139)	(0.081)	(0.083)
	A lot of difficulty	-0.210	-0.064	-0.116	-0.121
		(0.132)	(0.185)	(0.107)	(0.110)
	Unable to do this	-0.485	-0.107	-0.238	0.141
		(0.754)	(1.056)	(0.611)	(0.629)
learing	Some difficulty	-0.203**	-0.002	-0.074	-0.085
Ref = No impairment)		(0.103)	(0.146)	(0.083)	(0.086)
, ,	A lot of difficulty	-0.196	-0.272	-0.076	-0.054
		(0.142)	(0.199)	(0.116)	(0.119)
	Unable to do this	-1.165**	2.138***	0.483	-0.380
		(0.530)	(0.742)	(0.431)	(0.444)
Sight	Some difficulty	-0.621***	0.253	-0.279**	-0.072
Ref = No impairment)		(0.106)	(0.160)	(0.116)	(0.139)
, ,	A lot of difficulty	-1.045***	0.058	-0.443***	-0.217
		(0.125)	(0.187)	(0.137)	(0.163)
	Unable to do this	-1.062**	-0.373	-0.315	-0.187
		(0.463)	(0.691)	(0.508)	(0.605)

Appendix table B.4 Longitud	dinal regression analys	is: relationship between	travel frequency and sev	erity of impairment ⁵	
		Frequency of car use	Frequency of bus use	Frequency of train use	Frequency of bicycle use
Communication	Some difficulty	-0.173	-0.567*	-0.356	-0.080
(Ref = No impairment)		(0.221)	(0.330)	(0.248)	(0.300)
,	A lot of difficulty	-0.020	-1.789***	-0.328	-0.436
		(0.416)	(0.622)	(0.468)	(0.566)
	Unable to do this	0.317	0.902	0.447	-1.014
		(1.692)	(2.533)	(1.903)	(2.305)
Memory	Some difficulty	-0.559***	-0.323**	-0.309***	-0.268**
(Ref = No impairment)		(0.095)	(0.142)	(0.102)	(0.124)
	A lot of difficulty	-0.807***	-1.009***	-0.462***	-0.022
		(0.130)	(0.192)	(0.140)	(0.169)
	Unable to do this	-3.951***	-0.178	-0.776	-1.019
		(0.996)	(1.472)	(1.074)	(1.302)
Recognising physical danger	Some difficulty	-0.823**	-0.744	-0.295	-0.058
'Ref = No impairment)		(0.412)	(0.620)	(0.467)	(0.564)
. ,	A lot of difficulty	-1.348**	-0.100	-0.283	-0.634
		(0.542)	(0.816)	(0.615)	(0.742)
	Unable to do this	0.308	-0.675	-0.332	-1.109
		(0.919)	(1.383)	(1.042)	(1.258)
Physical co-ordination	Some difficulty	-0.503***	-0.403***	-0.157	-0.195*
(Ref = No impairment)		(0.092)	(0.136)	(0.099)	(0.117)

Appendix table B.4 Longitu	dinal regression analysi	s: relationship between t	travel frequency and sev	erity of impairment ⁵	
		Frequency of car use	Frequency of bus use	Frequency of train use	Frequency of bicycle use
Physical co-ordination	A lot of difficulty	-0.516***	-0.999***	-0.471***	-0.371***
(Ref = No impairment)		(0.110)	(0.165)	(0.120)	(0.142)
	Unable to do this	-1.440***	-1.591***	-0.505	-0.471
		(0.372)	(0.542)	(0.395)	(0.467)
Personal care (Ref = No impairment)	Some difficulty	-0.885***	-1.238***	-0.494***	-0.209
	-	(0.122)	(0.179)	(0.132)	(0.158)
	A lot of difficulty	-1.166***	-1.667***	-0.620***	-0.368**
		(0.141)	(0.207)	(0.153)	(0.183)
	Unable to do this	-1.797***	-2.876***	-0.737**	-0.147
		(0.288)	(0.423)	(0.312)	(0.374)
Other	Some difficulty	-0.105	0.164	0.021	-0.248**
(Ref = No impairment)	-	(0.090)	(0.137)	(0.101)	(0.121)
	A lot of difficulty	-0.579**	-0.583	-0.301	0.073
		(0.236)	(0.357)	(0.277)	(0.317)
	Unable to do this	0.126	-0.390	-0.176	0.552
		(0.314)	(0.474)	(0.352)	(0.421)

Notes: *p < 0.1, **p < 0.05, ***p < 0.01. Fixed effects OLS regression (longitudinal data). Understanding Society, Waves 4, 6 (2012-2016). Standard errors in parentheses. Minimum observations = 5,977

		ADL/IADL Difficulty	Other difficulties
Age	65-79	-0.035**	0.013
(Ref = 50-64)		(0.017)	(0.014)
	80+	0.018	0.238***
		(0.032)	(0.025)
Sex	Female	-	-
(Ref = Male)		-	-
Region	North West	0.171	-0.118
(Ref = North East)		(0.381)	(0.352)
	Yorkshire and Humber	0.386	-0.039
		(0.353)	(0.287)
	East Midlands	1.002***	-0.033
		(0.360)	(0.302)
	West Midlands	0.161	-0.066
		(0.348)	(0.297)
	East of England	-0.064	-0.226
		(0.310)	(0.295)
	London	-0.273	-0.229
		(0.324)	(0.286)

⁶ See Table 5.1 in the main report for classification of activities

		ADL/IADL Difficulty	Other difficulties
Region	South East	-0.013	0.008
(Ref = North East)		(0.313)	(0.270)
	South West	0.091	-0.049
		(0.323)	(0.282)
Employment status (Ref = retired)	Employed	-0.038	0.003
		(0.036)	(0.031)
	Self-employed	-0.035	0.027
		(0.051)	(0.045)
	Unemployed	0.001	-0.019
	, ,	(0.087)	(0.069)
	Sick	0.276***	0.056*
		(0.042)	(0.029)
	Looking after home/family	-0.026	-0.019
		(0.027)	(0.021)
	Semi-retired	-0.110	-0.069
		(0.076)	(0.064)
Paid work (last month) (Ref = Not mentioned)	Mentioned	-0.014	-0.047*
		(0.032)	(0.027)

		ADL/IADL Difficulty	Other difficulties
Self-employment (last month)	Mentioned	-0.050	-0.035
(Ref = Not mentioned)		(0.044)	(0.040)
Voluntary work (last month)	Mentioned	-0.005	-0.020
(Ref = Not mentioned)		(0.019)	(0.016)
Cared for someone (last month)	Mentioned	0.001	-0.018
(Ref = Not mentioned)		(0.019)	(0.015)
_ooked after home/family (last month)	Mentioned	-0.057***	-0.045***
(Ref = Not mentioned)		(0.013)	(0.010)
Attended educational/training course (last month)	Mentioned	-0.034	-0.007
(Ref = Not mentioned)		(0.036)	(0.030)
Hypertension	Mentioned	0.022	0.014
(Ref = Not mentioned)		(0.022)	(0.018)
Diabetes	Mentioned	0.078*	0.114***
(Ref = Not mentioned)		(0.044)	(0.033)
Cancer	Mentioned	0.070**	0.077***
(Ref = Not mentioned)		(0.030)	(0.022)
Chronic lung disease	Mentioned	0.024	0.139***
(Ref = Not mentioned)		(0.046)	(0.034)

Appendix table B.5 Difficulties with ADL/IADL and other difficulties by health ⁶			
		ADL/IADL Difficulty	Other difficulties
Stroke	Mentioned	0.596***	0.336***
(Ref = Not mentioned)		(0.057)	(0.042)
Psychiatric problem	Mentioned	0.080	0.009
(Ref = Not mentioned)		(0.066)	(0.054)
Arthritis	Mentioned	0.145***	0.166***
(Ref = Not mentioned)		(0.031)	(0.026)
Asthma	Mentioned	0	0.044
(Ref = Not mentioned)		(0.048)	(0.037)
High Cholesterol	Mentioned	0.032*	-0.002
(Ref = Not mentioned)		(0.020)	(0.016)
Cataracts	Mentioned	0.034**	0.051***
(Ref = Not mentioned)		(0.016)	(0.012)
Parkinson's disease	Mentioned	0.537***	0.287***
(Ref = Not mentioned)		(0.128)	(0.107)
Hip fracture	Mentioned	0.597***	0.635***
(Ref = Not mentioned)		(0.077)	(0.055)
Memory problems (Ref = Not mentioned)	Mentioned	0.234 (0.356)	-0.049 (0.262)

Appendix table B.5 Difficulties with ADL/IADL and o	ther difficulties by health ⁶			
		ADL/IADL Difficulty	Other difficulties	
Alzheimer's disease	Mentioned	0.457**	0.246	
(Ref = Not mentioned)		(0.220)	(0.153)	
Dementia	Mentioned	0.540	0.216	
(Ref = Not mentioned)		(0.351)	(0.260)	
	Observations	17897	14566	
	R ²	0.032	0.058	

Notes: * p < 0.1, ** p < 0.05, *** p <0.01. Fixed effects OLS regression (longitudinal data). English Longitudinal Study of Ageing, Waves 4-7 (2008-2015). Standard errors in parentheses.

		Frequency of travel by public transport	Frequency of lifts from family / friends	Drive a car	Use of Taxi	Use of Door-to-door community transport	Use of transport provided by hospital / day centre / lunch club
		OLS Regression	OLS Regression	Logistic Regression	Logistic Regression	Logistic Regression	Logistic Regression
Getting dressed	Has difficulty	-0.002	-0.004	1.049	1.019	2.441***	1.530*
(Ref = No difficulty)		(0.030)	(0.054)	(0.094)	(0.089)	(0.328)	(0.242)
Walking across a room	Has difficulty	-0.146**	0.129	1.211	0.963	0.650	1.259
(Ref = No difficulty)		(0.059)	(0.093)	(0.166)	(0.162)	(0.477)	(0.316)
Using the toilet (inc. getting up/down)	Has difficulty	0.047	0.002	0.984	1.126	0.774	0.856
(Ref = No difficulty)		(0.052)	(0.084)	(0.133)	(0.150)	(0.473)	(0.368)
Eating (inc. cutting food)	Has difficulty	0.096	-0.037	1.099	0.700*	1.492	0.761
(Ref = No difficulty)		(0.072)	(0.120)	(0.170)	(0.210)	(0.597)	(0.445)
Using a map to get around a strange place	Has difficulty	0.081*	0.030	1.012	1.076	1.087	1.506
(Ref = No difficulty)		(0.046)	(0.077)	(0.119)	(0.137)	(0.513)	(0.327)
Recognising you are in physical danger	Has difficulty	-0.005	0.082	0.922	0.939	1.526	0.879
(Ref = No difficulty)		(0.093)	(0.152)	(0.215)	(0.272)	(0.513)	(0.419)
Shopping for groceries	Has difficulty	-0.222***	0.052	1.069	1.000	0.939	0.910
(Ref = No difficulty)		(0.038)	(0.060)	(0.098)	(0.096)	(0.338)	(0.233)
Taking medications	Has difficulty	-0.038	-0.105	1.037	0.981	1.810	0.982
(Ref = No difficulty)		(0.079)	(0.133)	(0.176)	(0.247)	(0.519)	(0.467)
Managing money	Has difficulty	-0.228***	-0.152	0.884	0.899	0.400	0.697
(Ref = No difficulty)		(0.065)	(0.103)	(0.161)	(0.199)	(0.650)	(0.450)
Age	65-79	0.036	-0.088	1.060	0.893	0.476	0.705
(Ref = 50-64)		(0.025)	(0.100)	(0.095)	(0.174)	(0.705)	(0.544)

		Frequency of travel by public transport	Frequency of lifts from family / friends	Drive a car	Use of Taxi	Use of Door-to-door community transport	Use of transport provided by hospital / day centre / lunch club
Age	80+	-0.086*	-0.070	1.171	0.904	0.588	1.121
(Ref = 50-64)		(0.046)	(0.121)	(0.156)	(0.210)	(0.861)	(0.680)
Sex	Female	-	-	-	-	-	-
(Ref = Male)		-	-	-	-	-	-
Region	North West	0.489	-	-	0	-	-
(Ref = North East)		(0.540)	-	-	(3639.236)	-	-
	Yorkshire and Humber	0.007	-	-	0	-	-
		(0.499)	-	-	(3639.236)	-	-
	East Midlands	-0.337	-0.753	-	0	-	-
		(0.510)	(2.011)	-	(3639.236)	-	-
	West Midlands	0.002	-1.130	1.134	0	†	0
		(0.492)	(1.329)	(1.455)	(3639.235)	†	(7452.511)
	East of England	-0.106	-0.917	3.622	0	-	-
		(0.438)	(1.758)	(1.724)	(3639.236)	-	-
	London	1.206***	0.757	0.325	0	-	-
		(0.458)	(1.322)	(1.827)	(3639.235)	-	-
	South East	-0.173	0.811	0.900	0	0.773	†
		(0.443)	(1.258)	(1.248)	(3639.236)	(1.597)	†
	South West	0.106	1.450	2.045	0	-	-
		(0.457)	(1.455)	(1.493)	(3639.236)	-	-

		Frequency of travel by public transport	Frequency of lifts from family / friends	Drive a car	Use of Taxi	Use of Door-to-door community transport	Use of transport provided by hospital / day centre / lunch club
Employment status	Employed	-0.114**	-0.022	1.022	0.948	1.843	0
(Ref = Retired)		(0.052)	(0.169)	(0.248)	(0.214)	(2.307)	(8341.303)
	Self- employed	-0.096	-0.650*	0.800	1.080	1.982	†
		(0.073)	(0.342)	(0.535)	(0.291)	(2.297)	†
	Unemployed	-0.119	2.084	1.210	1.328	-	-
		(0.123)	(1.498)	(1.409)	(1.226)	-	-
	Permanently sick/disabled	-0.013	-0.010	1.036	1.184	0.755	1.702
		(0.060)	(0.120)	(0.173)	(0.201)	(0.575)	(0.409)
	Looking after home/family	-0.013	0.059	1.033	1.039	0.926	0.506
		(0.039)	(0.076)	(0.105)	(0.142)	(0.464)	(0.452)
	Semi-retired	0.101	-0.099	1.150	1.033	0	-
		(0.108)	(0.378)	(0.476)	(0.412)	(8850.447)	-
Paid work (in last month)	Mentioned	-0.072	-0.126	0.906	1.050	0.261	-
(Ref = Not mentioned)		(0.046)	(0.144)	(0.221)	(0.190)	(1.877)	-
Self-employment (in last month)	Mentioned	0.001	0.029	0.822	0.855	0.769	-
(Ref = Not mentioned)		(0.063)	(0.267)	(0.465)	(0.240)	(1.996)	-
Voluntary work (in last month)	Mentioned	-0.007	-0.136**	0.932	1.016	0.764	1.094
(Ref = Not mentioned)		(0.027)	(0.062)	(0.114)	(0.092)	(0.452)	(0.439)
Cared for someone (in last month)	Mentioned	-0.031	-0.063	0.953	1.083	0.909	0.910
(Ref = Not mentioned)		(0.026)	(0.057)	(0.097)	(0.090)	(0.400)	(0.322)

		Frequency of travel by public transport	Frequency of lifts from family / friends	Drive a car	Use of Taxi	Use of Door-to-door community transport	Use of transport provided by hospital / day centre / lunch club
Looked after home or family (in last month)	Mentioned	0.063***	0.052	0.951	1.126**	0.659	1.050
(Ref = Not mentioned)		(0.018)	(0.039)	(0.068)	(0.060)	(0.255)	(0.230)
Attended a formal educational or training course (in last month)	Mentioned	0.007	0.063	0.947	0.829	0.756	0.284
(Ref = Not mentioned)		(0.051)	(0.133)	(0.293)	(0.171)	(0.760)	(1.505)
Hypertension	Mentioned	-0.062**	-0.026	1.018	1.030	0.518	1.410
(Ref = Not mentioned)		(0.032)	(0.067)	(0.110)	(0.107)	(0.538)	(0.373)
Diabetes	Mentioned	0.067	-0.016	1.011	1.091	0.891	0.823
(Ref = Not mentioned)		(0.062)	(0.118)	(0.189)	(0.238)	(0.860)	(0.626)
Cancer	Mentioned	-0.079*	0.105	0.939	0.927	1.044	2.175*
(Ref = Not mentioned)		(0.042)	(0.085)	(0.137)	(0.126)	(0.614)	(0.412)
Chronic lung disease	Mentioned	-0.103	-0.168	1.118	1.101	4.267	1.594
(Ref = Not mentioned)		(0.066)	(0.137)	(0.254)	(0.208)	(1.734)	(0.647)
Stroke	Mentioned	-0.379***	0.027	1.418	0.879	0.441	2.265
(Ref = Not mentioned)		(0.081)	(0.145)	(0.233)	(0.263)	(0.791)	(0.687)
Psychiatric problem	Mentioned	-0.127	0.433**	1.321	0.937	0	3.285
(Ref = Not mentioned)		(0.094)	(0.180)	(0.401)	(0.338)	(3956.069)	(0.991)
Arthritis	Mentioned	-0.020	0.047	1.077	0.981	1.268	0.964
(Ref = Not mentioned)		(0.044)	(0.098)	(0.168)	(0.159)	(0.673)	(0.511)
Asthma	Mentioned	-0.078	-0.188	0.952	0.988	1.947	0.166**
(Ref = Not mentioned)		(0.069)	(0.130)	(0.263)	(0.197)	(1.262)	(0.731)

		Frequency of travel by public transport	Frequency of lifts from family / friends	Drive a car	Use of Taxi	Use of Door-to-door community transport	Use of transport provided by hospital / day centre / lunch club
High Cholesterol	Mentioned	-0.006	0.092	1.061	1.034	0.879	1.183
(Ref = Not mentioned)		(0.028)	(0.060)	(0.099)	(0.094)	(0.432)	(0.366)
Cataracts	Mentioned	0.018	-0.043	1.050	0.983	1.090	1.070
(Ref = Not mentioned)		(0.023)	(0.043)	(0.073)	(0.066)	(0.253)	(0.201)
Parkinson's disease	Mentioned	0.062	-0.444	1.774	1.497	-	-
(Ref = Not mentioned)		(0.182)	(0.390)	(0.600)	(0.953)	-	-
Hip fracture	Mentioned	-0.228**	0.139	1.062	1.034	†	0.685
(Ref = Not mentioned)		(0.110)	(0.204)	(0.294)	(0.380)	†	(0.718)
Memory problems	Mentioned	0.894*	0.301	4.795	†	0	5.342
(Ref = Not mentioned)		(0.504)	(0.817)	(1.207)	†	(6265.574)	(8475.214)
Alzheimer's disease	Mentioned	-1.223***	-0.994*	0.702	0	0.414	†
(Ref = Not mentioned)		(0.314)	(0.538)	(0.564)	(786.708)	(1.053)	†
Dementia	Mentioned	-0.692	-0.346	0.326	0	-	0.408
(Ref = Not mentioned)		(0.497)	(0.800)	(1.193)	(786.71)	-	(8475.215)
	Observations	17896	5817	15496	10666	10666	10666
	R ²	0.016	0.014	0.002	0.003	0.003	0.004

Notes: *p < 0.1, **p < 0.05, ***p < 0.01. English Longitudinal Study of Ageing, Waves 4-7 (2008-2015). Standard errors in parentheses.

Appendix table B.7 Travel mode	use by other diff	iculties					
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club
		OLS Regression	OLS Regression	Logistic Regression	Logistic Regression	Logistic Regression	Logistic Regression
Walking 100 yards	Has difficulty	-0.177***	-0.074	1.058	1.126	0.732	1.094
(Ref = No difficulty)		(0.034)	(0.059)	(0.100)	(0.093)	(0.292)	(0.243)
Sitting for approx. 2 hours	Has difficulty	-0.004	0.029	1.051	0.958	0.638	0.957
(Ref = No difficulty)		(0.028)	(0.053)	(0.088)	(0.088)	(0.315)	(0.249)
Rising from chair after sitting for long period	Has difficulty	0.006	0.055	1.056	0.966	0.644	0.898
(Ref = No difficulty)		(0.023)	(0.044)	(0.074)	(0.072)	(0.286)	(0.222)
Climbing 2+ flights of stairs (no rest)	Has difficulty	0.018	-0.071	1.003	1.051	1.616	1.075
(Ref = No difficulty)		(0.024)	(0.048)	(0.077)	(0.075)	(0.329)	(0.258)
Climbing 1 flight of stairs (no rest)	Has difficulty	-0.205***	-0.073	1.047	1.007	1.165	0.717
(Ref = No difficulty)		(0.029)	(0.052)	(0.086)	(0.085)	(0.271)	(0.235)
Stooping, kneeling, or crouching	Has difficulty	-0.036	-0.010	1.021	1.029	1.082	1.167
(Ref = No difficulty)		(0.022)	(0.047)	(0.076)	(0.070)	(0.296)	(0.243)
Reaching / extending arms	Has difficulty	-0.040	-0.018	0.985	1.112	1.274	1.035
(Ref = No difficulty)		(0.030)	(0.056)	(0.096)	(0.094)	(0.368)	(0.277)
Pulling / pushing large objects	Has difficulty	-0.009	0.025	1.030	0.848*	1.538	1.332
(Ref = No difficulty)		(0.029)	(0.052)	(0.086)	(0.088)	(0.285)	(0.239)
Lifting or carrying weights >10lbs	Has difficulty	-0.033	-0.081	1.047	1.085	0.715	0.887
(Ref = No difficulty)		(0.027)	(0.051)	(0.080)	(0.080)	(0.256)	(0.252)

Appendix table B.7 Travel mod	de use by other diff	iculties					
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club
Picking up a 5p coin from a table	Has difficulty	0.005	-0.114	1.053	0.926	1.194	1.041
(Ref = No difficulty)		(0.040)	(0.069)	(0.109)	(0.117)	(0.365)	(0.278)
Age	65-79	0.037	-0.081	1.054	0.885	0.441	0.857
(Ref = 50-64)		(0.025)	(0.100)	(0.096)	(0.174)	(0.755)	(0.53)
	80+	-0.070	-0.049	1.145	0.881	0.515	1.255
		(0.046)	(0.120)	(0.156)	(0.211)	(0.930)	(0.657)
Sex	Female	-	-	-	-	-	-
(Ref = Male)		-	-	-	-	-	-
Region	North West	0.470	-	-	0	-	-
(Ref = North East)		(0.539)	-	-	(3639.326)	-	-
	Yorkshire and Humber	0.011	-	-	0	-	-
		(0.498)	-	-	(3639.327)	-	-
	East Midlands	-0.379	-1.128	-	0	-	-
		(0.509)	(2.009)	-	(3639.326)	-	-
	West Midlands	-0.023	-1.006	1.161	0	†	0
		(0.491)	(1.327)	(1.451)	(3639.326)	†	(7281.438)
	East of England	-0.111	-1.244	3.345	0	-	-
		(0.438)	(1.757)	(1.723)	(3639.326)	-	
	London	1.203***	0.696	0.307	0	-	-
		(0.457)	(1.320)	(1.830)	(3639.326)	-	-

Appendix table B.7 Travel mod	de use by other diff	iculties					
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club
Region	South East	-0.175	0.800	0.926	0	0.495	†
(Ref = North East)		(0.442)	(1.256)	(1.248)	(3639.326)	(1.598)	†
	South West	0.075	1.387	2.067	0	-	-
		(0.456)	(1.453)	(1.491)	(3639.326)	-	-
Employment status	Employed	-0.111**	-0.017	1.027	0.947	1.803	0
(Ref = Retired)		(0.052)	(0.169)	(0.247)	(0.214)	(2.267)	(8213.299)
	Self-employed	-0.091	-0.612*	0.799	1.090	1.538	†
		(0.073)	(0.342)	(0.534)	(0.291)	(2.386)	t
	Unemployed	-0.143	2.086	1.341	1.357	-	-
		(0.123)	(1.496)	(1.383)	(1.226)	-	-
	Permanently sick/disabled	-0.003	-0.013	1.010	1.189	0.599	1.359
		(0.060)	(0.120)	(0.170)	(0.200)	(0.587)	(0.404)
	Looking after home/family	-0.022	0.048	1.038	1.040	1.172	0.452*
		(0.039)	(0.076)	(0.105)	(0.142)	(0.458)	(0.467)
	Semi-retired	0.112	-0.093	1.076	1.047	0	-
		(0.107)	(0.378)	(0.468)	(0.412)	(8640.415)	-
Paid work (in last month)	Mentioned	-0.076*	-0.134	0.915	1.040	0.415	-
(Ref = Not mentioned)		(0.046)	(0.143)	(0.221)	(0.190)	(1.97)	-
Self-employment (in last month)	Mentioned	-0.006	0.016	0.815	0.854	1.120	-
(Ref = Not mentioned)		(0.062)	(0.266)	(0.465)	(0.240)	(2.017)	-

Appendix table B.7 Travel mode	e use by other dif	ficulties					
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club
Voluntary work (in last month)	Mentioned	-0.009	-0.137**	0.936	1.009	0.627	1.159
(Ref = Not mentioned)		(0.027)	(0.062)	(0.114)	(0.092)	(0.451)	(0.439)
Cared for someone (in last month)	Mentioned	-0.033	-0.063	0.959	1.089	0.938	0.748
(Ref = Not mentioned)		(0.026)	(0.057)	(0.097)	(0.090)	(0.382)	(0.320)
Looked after home or family (in last month)	Mentioned	0.063***	0.042	0.955	1.131**	0.763	1.062
(Ref = Not mentioned)		(0.018)	(0.039)	(0.068)	(0.060)	(0.254)	(0.231)
Attended a formal educational or training course (in last month)	Mentioned	0.007	0.060	0.940	0.839	1.077	0.321
(Ref = Not mentioned)		(0.051)	(0.133)	(0.295)	(0.171)	(0.758)	(1.507)
Hypertension	Mentioned	-0.058*	-0.027	1.023	1.031	0.586	1.244
(Ref = Not mentioned)		(0.032)	(0.067)	(0.111)	(0.106)	(0.487)	(0.372)
Diabetes	Mentioned	0.088	-0.011	1.010	1.107	0.921	0.837
(Ref = Not mentioned)		(0.062)	(0.119)	(0.189)	(0.238)	(0.904)	(0.655)
Cancer	Mentioned	-0.067	0.121	0.929	0.930	1.173	2.348**
(Ref = Not mentioned)		(0.042)	(0.085)	(0.135)	(0.126)	(0.629)	(0.409)
Chronic lung disease	Mentioned	-0.073	-0.145	1.114	1.077	3.389	1.399
(Ref = Not mentioned)		(0.066)	(0.137)	(0.254)	(0.209)	(1.738)	(0.624)
Stroke	Mentioned	-0.358***	0.079	1.377	0.895	0.395	2.103
(Ref = Not mentioned)		(0.081)	(0.145)	(0.231)	(0.264)	(0.810)	(0.700)
Psychiatric problem	Mentioned	-0.106	0.417**	1.312	0.955	0	4.527
(Ref = Not mentioned)		(0.093)	(0.179)	(0.403)	(0.336)	(4015.992)	(1.029)

Appendix table B.7 Travel	mode use by other di	ifficulties					
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club
Arthritis	Mentioned	0.002	0.091	1.068	0.996	0.874	0.945
(Ref = Not mentioned)		(0.044)	(0.098)	(0.168)	(0.160)	(0.702)	(0.524)
Asthma	Mentioned	-0.087	-0.183	0.926	0.977	2.653	0.178**
(Ref = Not mentioned)		(0.069)	(0.130)	(0.265)	(0.196)	(1.331)	(0.716)
High Cholesterol	Mentioned	-0.003	0.092	1.062	1.029	0.82	1.176
(Ref = Not mentioned)		(0.028)	(0.060)	(0.099)	(0.094)	(0.419)	(0.372)
Cataracts	Mentioned	0.017	-0.032	1.058	0.988	1.004	1.074
(Ref = Not mentioned)		(0.023)	(0.042)	(0.072)	(0.067)	(0.253)	(0.201)
Parkinson's disease	Mentioned	0.077	-0.450	1.747	1.424	-	-
(Ref = Not mentioned)		(0.182)	(0.390)	(0.604)	(0.949)	-	-
Hip fracture	Mentioned	-0.218**	0.169	1.051	1.101	†	0.689
(Ref = Not mentioned)		(0.110)	(0.204)	(0.296)	(0.380)	†	(0.715)
Memory problems	Mentioned	0.876*	0.132	4.813	†	0	2.35
(Ref = Not mentioned)		(0.503)	(0.814)	(1.200)	†	(5991.853)	(8442.703)
Alzheimer's disease	Mentioned	-1.260***	-0.932*	0.698	0	0.676	†
(Ref = Not mentioned)		(0.312)	(0.536)	(0.555)	(794.103)	(0.978)	†
Dementia	Mentioned	-0.743	-0.234	0.319	0	-	0.774
(Ref = Not mentioned)		(0.496)	(0.799)	(1.192)	(794.105)	-	(8442.703)

Appendix table B.7 Travel mode u	Appendix table B.7 Travel mode use by other difficulties									
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club			
	Observations	17897	5818	15497	10667	10667	10667			
	R ²	0.019	0.014	0.002	0.003	0.003	0.004			

 $Notes: *p < 0.1, **p < 0.05, ***p < 0.01. \ English \ Longitudinal \ Study \ of \ Ageing, \ Waves \ 4-7 \ (2008-2015). \ Standard \ errors \ in \ parentheses.$

		Cane/ Walking	Zimmer/ Walker	Manual wheelchair	Electric wheelchair	Buggy/ scooter	Personal alarm	Elbow crutches
		stick	Traine.	Wildonalia	Wilderland	0000101	alai III	Gratorios
Age	(in years)	1.023***	1.042***	1.083**	1.204**	1.121***	1.046**	1.085*
		(800.0)	(0.015)	(0.032)	(0.084)	(0.032)	(0.019)	(0.045)
Impairment	Mentioned	1.211***	1.807***	2.897***	0.443	1.484**	1.608**	1.283
(Ref = No impairment)		(0.061)	(0.152)	(0.262)	(0.643)	(0.192)	(0.199)	(0.272)
Gender	Female	-	-	-	-	-	-	-
(Ref = Male)		-	-	-	-	-	-	-
Region	North West	0	-	-	-	-	-	-
(Ref = North East)		(899.650)	-	-	-	-	-	-
	Yorkshire &	0	-	-	-	-	-	†
	Humber	(899.650)	-	-	-	-	-	†
	East Midlands	0	†	†	-	-	-	-
	Last iviidiarids	(899.650)	(6951.740)	(7168.421)	-	-	-	-
	West Midlands	0	-	-	-	†	1.149	-
	West Wildianus	(899.650)	-	-	-	(5463.104)	(1.688)	-
	East of England	0	0	-	-	-	0.852	-
	Last of England	(899.650)	(7603.735)	-	-	-	†	-
	London	0	-	-	0	-	-	-
		(899.650)	-	-	†	-	-	-
	South East	0	-	-	-	-	†	-
		(899.650)	-	-	-	_	(6848.263)	-
	South West	0	-	1	-	-	-	-
		(899.650)	-	(5981.929)	_	_	-	-

Appendix table B.8 Use of mo	bility aids by health							
		Cane/ Walking stick	Zimmer/ Walker	Manual wheelchair	Electric wheelchair	Buggy/ scooter	Personal alarm	Elbow crutches
Employment status	Employed	1.006	1.211	1.497	†	0.192	0.439	0.280
(Ref = Retired)		(0.264)	(1.440)	(1.084)	†	(1.297)	†	(1.349)
	Self employed	1.248 (0.418)	2.553 †	3.985 †	† †	2.266 (2.205)	-	†
	Unemployed	0.492 (0.617)	-	-	-	-	-	-
	Sick	0.961 (0.105)	1.019 (0.238)	1.182 (0.238)	0.997 (0.499)	1.473* (0.221)	1.257 (0.310)	1.564 (0.301)
	Looking after home/family	0.999 (0.115)	0.993 (0.272)	0.767 (0.478)	2.855 (0.936)	1.380 (0.407)	0.535 (0.469)	1.051 (0.731)
	Semi-retired	1.351 (0.550)	0 (3893.246)	0 (3452.929)	-	0.873 (0.811)	-	0 (4779.565)
Paid work (last month)	Mentioned	0.601**	0.256	1.562	1.755	1.565	0	0.547
(Ref = Not mentioned)		(0.234)	(1.519)	(0.956)	†	(0.635)	(9105.282)	(1.265)
Self-employment (last month)	Mentioned	0.868	0	0	†	0.625	-	t
(Ref = Not mentioned)		(0.345)	(8492.695)	(9293.740)	†	(1.251)	-	(5496.327)
Voluntary work (last month)	Mentioned	0.970	0.655	1.733	0.350	0.830	1.116	0.481
(Ref = Not mentioned)		(0.098)	(0.312)	(0.494)	(1.242)	(0.405)	(0.368)	(0.552)
Cared for someone (last month) (Ref = Not mentioned)	Mentioned	0.980 (0.087)	0.551* (0.321)	1.530 (0.433)	0.640 (0.831)	1.052 (0.306)	0.746 (0.335)	1.016 (0.463)

Appendix table B.8 Use of m	obility aids by health	ı						
		Cane/ Walking stick	Zimmer/ Walker	Manual wheelchair	Electric wheelchair	Buggy/ scooter	Personal alarm	Elbow crutches
Looked after home/family (last month)	Mentioned	0.943	0.733*	0.830	0.346	1.007	0.787	1.046
(Ref = Not mentioned)		(0.058)	(0.165)	(0.247)	(0.792)	(0.184)	(0.206)	(0.280)
Attended educational / training course (last month) (Ref = Not mentioned)	Mentioned	0.794 (0.239)	1.103 (1.082)	0.823 (1.283)	0.853 †	1.094 (0.750)	0.610 (0.920)	0.802 (0.945)
Hypertension	Mentioned	1.030	1.359	0.821	0.689	1.288	1.211	0.547*
(Ref = Not mentioned)		(0.089)	(0.244)	(0.242)	(0.642)	(0.242)	(0.289)	(0.356)
Diabetes	Mentioned	1.223	3.829**	1.047	0.385	1.378	3.387	0.896
(Ref = Not mentioned)		(0.169)	(0.549)	(0.544)	(1.410)	(0.643)	(1.207)	(0.776)
Cancer	Mentioned	1.054	1.235	1.110	0.474	0.673	1.701	1.764
(Ref = Not mentioned)		(0.119)	(0.351)	(0.357)	(0.742)	(0.362)	(0.454)	(0.476)
Chronic lung disease	Mentioned	1.002	1.126	1.107	2.822	0.587	2.873*	0.956
(Ref = Not mentioned)		(0.162)	(0.432)	(0.498)	(1.116)	(0.374)	(0.589)	(0.667
Stroke	Mentioned	1.298	2.264	6.105**	0.014*	1.674	1.601	0.723
(Ref = Not mentioned)		(0.187)	(0.515)	(0.808)	(2.248)	(0.809)	(0.598)	(1.441)
Psychiatric problem	Mentioned	1.154	1.469	0.440	-	0.316	0.843	†
(Ref = Not mentioned)		(0.269)	(0.577)	(0.724)	-	(1.141)	(1.724)	(7118.353)
Arthritis	Mentioned	1.726***	1.238	1.731	2.744	1.261	2.360*	1.345
(Ref = Not mentioned)		(0.163)	(0.369)	(0.560)	(1.607)	(0.504)	(0.478)	(0.915)
Asthma (Ref = Not mentioned)	Mentioned	1.023 (0.161)	1.163 (0.399)	0.990 (0.433)	†	0.848 (0.532)	0.907 (0.438)	† (6212.340)

Appendix table B.8 Use of	mobility aids by health							
		Cane/ Walking stick	Zimmer/ Walker	Manual wheelchair	Electric wheelchair	Buggy/ scooter	Personal alarm	Elbow crutches
High Cholesterol	Mentioned	1.001	1.346	0.689	1.817	0.999	1.001	1.014
(Ref = Not mentioned)		(0.087)	(0.238)	(0.282)	(0.730)	(0.247)	(0.332)	(0.336)
Cataracts	Mentioned	1.025	1.139	1.080	0.952	1.332	0.973	1.020
(Ref = Not mentioned)		(0.061)	(0.152)	(0.200)	(0.415)	(0.194)	(0.192)	(0.264)
Parkinson's disease	Mentioned	1.567	0.146*	1.208	†	†	†	†
(Ref = Not mentioned)		(0.664)	(1.043)	(1.224)	†	†	(6384.517)	(6610.943)
Hip fracture	Mentioned	2.210***	3.072**	1.987	0	1.250	2.184	1.461
(Ref = Not mentioned)		(0.253)	(0.514)	(0.887)	†	(0.748)	(0.681)	(0.667)
Memory problems	Mentioned	1.416	1.640	1.336	0.239	1.330	†	0.209
(Ref = Not mentioned)		(1.029)	(0.731)	(0.705)	(1.279)	(0.760)	(3768.997)	(1.338)
Alzheimer's disease	Mentioned	1.140	†	0.405	-	1.189	-	-
(Ref = Not mentioned)		(0.501)	(4440.055)	(0.903)	-	(0.873)	-	-
Dementia	Mentioned	0.591	-	-	-	-	-	-
(Ref = Not mentioned)		(1.026)	-	-	-	-	-	-
	Observations	14566	14566	14566	14566	14566	14566	14566
	R ²	0.006	0.007	0.005	0.002	0.003	0.004	0.003

Notes: *p < 0.1, **p < 0.05, ***p < 0.01. Fixed effects OLS regression (longitudinal data). English Longitudinal Study of Ageing, Waves 4-7 (2008-2015). Standard errors in parentheses. † denotes standard errors and non-significant coefficients with values of 10,000 or greater.

		Number of mobility aids used (0-7)
Age	(in years)	0.022***
		(0.002)
Impairment	Mentioned	0.260***
(Ref = No impairment)		(0.016)
Gender	Female	-0.139
(Ref = Male)		(0.346)
Region	North West	-0.043
(Ref = North East)		(0.282)
	Yorkshire and the Humber	-0.060
		(0.296)
	East Midlands	-0.024
		(0.292)
	West Midlands	-0.209
		(0.289)
	East of England	-0.202
		(0.281)
	London	-0.024
		(0.265)
	South East	-0.056
		(0.277)
	South West	0.025
		(0.030)

		Number of mobility aids used (0-7)
Employment status	Employed	0.042
(Ref = Retired)		(0.045)
	Self-employed	0.018
		(0.068)
	Unemployed	0.053*
		(0.029)
	Permanently sick or disabled	-0.013
		(0.021)
	Looking after home/family	-0.047
		(0.063)
	Semi-retired	-0.016
		(0.027)
Paid work (last month)	Mentioned	-0.013
(Ref = Not mentioned)		(0.039)
Self-employment (last month)	Mentioned	-0.016
(Ref = Not mentioned)		(0.015)
Voluntary work (last month)	Mentioned	-0.017
(Ref = Not mentioned)		(0.014)
Cared for someone (last month)	Mentioned	-0.034***
(Ref = Not mentioned)		(0.010)
ooked after home/family (last month)	Mentioned	-0.006
(Ref = Not mentioned)		(0.029)

		Number of mobility aids used (0-7)
Attended educational/training course (last month)	Mentioned	0.003
(Ref = Not mentioned)		(0.017)
Hypertension	Mentioned	0.058*
(Ref = Not mentioned)		(0.033)
Diabetes	Mentioned	0.038*
(Ref = Not mentioned)		(0.022)
Cancer	Mentioned	0.085**
(Ref = Not mentioned)		(0.033)
Chronic lung disease	Mentioned	0.288***
(Ref = Not mentioned)		(0.042)
Stroke	Mentioned	-0.033
(Ref = Not mentioned)		(0.053)
Psychiatric problems	Mentioned	0.114***
(Ref = Not mentioned)		(0.025)
Arthritis	Mentioned	0.033
(Ref = Not mentioned)		(0.036)
Asthma	Mentioned	-0.019
(Ref = Not mentioned)		(0.015)
High cholesterol	Mentioned	0.026**
(Ref = Not mentioned)		(0.012)
Cataracts (Ref = Not mentioned)	Mentioned	0.215** (0.105)

Appendix table B.9 Number of mobility	aids used by health	
		Number of mobility aids used (0-7)
Parkinson's disease	Mentioned	0.581***
(Ref = Not mentioned)		(0.054)
Hip fracture	Mentioned	0.005
(Ref = Not mentioned)		(0.257)
Memory problems	Mentioned	0.161
(Ref = Not mentioned)		(0.151)
Alzheimer's disease	Mentioned	0.137
(Ref = Not mentioned)		(0.255)
Dementia	Mentioned	0.043
(Ref = Not mentioned)		(0.254)
	Observations	14566
	R ²	0.089

Notes: * p < 0.1, ** p < 0.05, *** p <0.01. Fixed effects OLS regression (longitudinal data). English Longitudinal Study of Ageing, Waves 4-7 (2008-2015). Standard errors in parentheses.

		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door- to-door community transport	Use of transport provided by hospital / day centre / lunch club
		OLS Regression	OLS Regression	Logistic regression	Logistic regression	Logistic regression	Logistic regression
Cane / Walking stick	Uses	-0.137***	-0.092	1.100	1.165	1.508	0.802
(Ref = Does not use)		(0.034)	(0.063)	(0.110)	(0.101)	(0.322)	(0.252)
Zimmer frame / Walker	Uses	-0.560***	0.010	1.088	0.939	0.955	1.111
(Ref = Does not use)		(0.064)	(0.092)	(0.172)	(0.161)	(0.335)	(0.320)
Manual wheelchair	Uses	-0.403***	0.094	1.033	0.865	1.848	0.975
(Ref = Does not use)		(0.077)	(0.116)	(0.182)	(0.207)	(0.517)	(0.337)
Electric wheelchair	Uses	-0.336**	0.204	0.790	0.634	1.527	1.126
(Ref = Does not use)		(0.156)	(0.238)	(0.349)	(0.422)	(0.983)	(0.962)
Buggy / scooter	Uses	-0.229***	-0.025	1.377	0.938	2.155	2.775
(Ref = Does not use)		(0.082)	(0.135)	(0.235)	(0.237)	(0.801)	(0.719)
Personal alarm	Uses	-0.287***	0.025	1.096	1.113	0.673	0.868
(Ref = Does not use)		(0.070)	(0.097)	(0.180)	(0.158)	(0.356)	(0.328)
Elbow crutches	Uses	-0.094	0.134	1.083	0.944	0.205	1.271
(Ref = Does not use)		(0.093)	(0.170)	(0.259)	(0.299)	(1.378)	(0.542)
Age	65-79	0.026	-0.050	1.070	0.872	0.329	0.715
(Ref = 50-64)		(0.030)	(0.112)	(0.108)	(0.192)	(0.720)	(0.539)
	80+	-0.099*	-0.027	1.162	0.889	0.400	1.234
		(0.053)	(0.135)	(0.172)	(0.231)	(0.895)	(0.703)

Appendix table B.10	Regression ana	iysis: use or trans	sport modes by us	e or mobility aid	s and nealth		
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door- to-door community transport	Use of transport provided by hospital / day centre / lunch club
Gender	Female	-	-	-	-	-	-
(Ref = Male)		-	-	-	-	-	-
Region	North West	0.643	-	-	0.000	-	-
(Ref = North East)		(0.735)	-	-	(6000.403)	-	-
	Yorkshire and the Humber	-0.536	-	-	5.973	-	-
		(0.600)	-	-	(6758.075)	-	-
	East Midlands	-1.349**	-1.638	-	0.000	-	-
		(0.630)	(2.064)	-	(6000.403)	-	-
	West Midlands	-0.273	-1.161	1.202	0.000	-	0.000
		(0.620)	(1.353)	(1.462)	(6000.403)	-	†
	East of England	-0.700	-1.741	3.205	0.000	-	-
		(0.616)	(1.814)	(1.720)	(6000.403)	-	-
	London	0.730	0.597	0.378	0.000	-	-
		(0.597)	(1.361)	(1.812)	(6000.403)	-	-
	South East	-0.322	0.787	0.914	0.000	0.627	†
		(0.565)	(1.277)	(1.249)	(6000.403)	(1.602)	(7214.865)
	South West	-0.405	1.250	2.104	0.000	-	-
		(0.589)	(1.501)	(1.502)	(6000.403)	-	-
Employment status	Employed	-0.099	-0.064	1.032	0.986	0.898	0.000
(Ref = Retired)		(0.064)	(0.215)	(0.277)	(0.241)	(1.987)	†

		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door- to-door community transport	Use of transport provided by hospital / day centre / lunch club
Employment status	Self-employed	-0.183*	-0.645	0.821	1.214	0.000	†
(Ref = Retired)		(0.095)	(0.456)	(0.720)	(0.354)	(9954.584)	†
	Unemployed	-0.230	2.070	0.771	0.884	-	-
		(0.144)	(1.513)	(1.373)	(1.720)	-	-
sick	Permanently sick or disabled	-0.027	-0.037	1.000	1.243	0.638	1.435
		(0.061)	(0.122)	(0.173)	(0.204)	(0.576)	(0.399)
	Looking after home/family	-0.011	0.087	1.025	1.091	1.026	0.539
		(0.044)	(0.084)	(0.116)	(0.151)	(0.499)	(0.463)
	Semi-retired	0.102	-0.096	1.088	1.169	0.000	-
		(0.135)	(0.493)	(0.474)	(0.475)	t	-
Paid work (last month)	Mentioned	-0.025	-0.046	0.909	1.112	1.293	-
(Ref = Not mentioned)		(0.057)	(0.180)	(0.249)	(0.224)	(1.599)	-
Self-employment (last month)	Mentioned	0.126	-0.023	0.743	0.726	†	-
(Ref = Not mentioned)		(0.084)	(0.337)	(0.566)	(0.297)	t	-
Voluntary work (last month)	Mentioned	0.009	-0.102	0.949	1.018	0.623	1.402
(Ref = Not mentioned)		(0.032)	(0.071)	(0.125)	(0.100)	(0.455)	(0.468)
Cared for someone (last month)	Mentioned	-0.008	0.019	0.963	1.080	0.775	0.744
(Ref = Not mentioned)		(0.031)	(0.065)	(0.106)	(0.097)	(0.406)	(0.329)

		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door- to-door community transport	Use of transport provided by hospital / day centre / lunch club
Looked after home/family (last month)	Mentioned	0.078***	0.033	0.946	1.112	0.724	0.915
(Ref = Not mentioned)		(0.021)	(0.044)	(0.075)	(0.065)	(0.274)	(0.241)
Attended educational/training course (last month)	Mentioned	-0.004	0.068	0.967	0.833	1.111	0.000
(Ref = Not mentioned)		(0.062)	(0.153)	(0.318)	(0.186)	(0.737)	(5097.594)
Hypertension	Mentioned	-0.079**	0.000	1.009	0.982	0.607	1.266
(Ref = Not mentioned)		(0.037)	(0.074)	(0.120)	(0.116)	(0.498)	(0.384)
Diabetes	Mentioned	0.096	-0.120	1.015	0.975	0.674	0.940
(Ref = Not mentioned)		(0.069)	(0.131)	(0.205)	(0.265)	(0.864)	(0.633)
Cancer	Mentioned	-0.074	0.094	0.931	0.964	2.040	2.761**
(Ref = Not mentioned)		(0.047)	(0.093)	(0.146)	(0.134)	(0.658)	(0.421)
Chronic lung disease	Mentioned	-0.088	-0.168	1.105	1.072	†	1.524
(Ref = Not mentioned)		(0.071)	(0.145)	(0.267)	(0.215)	(3827.231)	(0.645)
Stroke	Mentioned	-0.320***	0.035	1.355	0.806	0.647	2.173
(Ref = Not mentioned)		(0.089)	(0.158)	(0.239)	(0.287)	(0.814)	(0.690)
Psychiatric problems	Mentioned	-0.276**	0.353*	1.224	1.036	0.000	4.706
(Ref = Not mentioned)		(0.113)	(0.202)	(0.477)	(0.426)	(7157.584)	(1.054)
Arthritis	Mentioned	-0.001	0.065	1.084	0.984	1.170	0.866
(Ref = Not mentioned)		(0.054)	(0.113)	(0.187)	(0.176)	(0.813)	(0.537)
Asthma	Mentioned	-0.075	-0.200	0.939	0.954	1.927	0.172**
(Ref = Not mentioned)		(0.077)	(0.134)	(0.278)	(0.202)	(1.211)	(0.739

		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door- to-door community transport	Use of transport provided by hospital / day centre / lunch club
High cholesterol	Mentioned	-0.007	0.128*	1.047	1.029	1.359	1.110
(Ref = Not mentioned)		(0.033)	(0.067)	(0.110)	(0.103)	(0.419)	(0.373)
Cataracts	Mentioned	0.018	-0.040	1.028	0.964	0.858	1.029
(Ref = Not mentioned)		(0.026)	(0.046)	(0.077)	(0.071)	(0.253)	(0.200)
Parkinson's disease	Mentioned	0.130	-1.047**	1.906	1.081	0.000	0.000
(Ref = Not mentioned)		(0.223)	(0.467)	(0.672)	(1.014)	(0.000)	(0.000)
Hip fracture	Mentioned	-0.030	0.174	0.984	0.977	†	0.669
(Ref = Not mentioned)		(0.116)	(0.210)	(0.302)	(0.386)	†	(0.727)
Memory problems	Mentioned	1.197**	-0.018	2.389	†	0.000	3.219
(Ref = Not mentioned)		(0.547)	(0.877)	(1.256)	(1301.141)	(9982.477)	†
Alzheimer's disease	Mentioned	-1.167***	-0.833	0.776	0.000	1.108	†
(Ref = Not mentioned)		(0.322)	(0.550)	(0.564)	(1301.140)	(0.961)	†
Dementia	Mentioned	-1.084**	-0.116	0.502	0.000	0.000	0.463
(Ref = Not mentioned)		(0.544)	(0.861)	(1.251)	(1301.141)	(0.000)	†
		_					
	Observations R ²	14565 0.030	5087 0.013	12437 0.001	9570 0.003	9570 0.003	9570 0.004

Notes: *p < 0.1, **p < 0.05, ***p < 0.01. Fixed effects regressions (longitudinal data). English Longitudinal Study of Ageing, Waves 4-7 (2008-2015). Standard errors in parentheses. Coefficients and standard errors for the logistic regression models are expressed as odds ratios and in log base respectively.

[†] denotes standard errors and non-significant coefficients with values of 10,000 or greater.

		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club
		Linear Regression	Linear Regression	Logistic regression	Logistic regression	Logistic regression	Logistic regression
Self-reported general health (Ref = 0 Excellent)	Unit decline health (Max = 4)	0.024** (0.012)	-0.001 (0.025)	0.970 (0.040)	1.042 (0.038)	0.904 (0.156)	0.972 (0.122)
Age (Ref = 50-64)	65-79	0.035 (0.025)	-0.079 (0.100)	1.055 (0.095)	0.874 (0.174)	0.507 (0.707)	0.824 (0.513)
Age (<i>Ref</i> = 50-64)	80+	-0.106** (0.046)	-0.054 (0.120)	1.164 (0.155)	0.874 (0.211)	0.619 (0.865)	1.134 (0.660)
Sex (Ref = Male)	Female	- -	-	- -	-	-	- -
Region (Ref = North East)	North West	0.488 (0.540)	-	-	0 (3639.195)	-	- -
	Yorkshire and the Humber	-0.008 (0.506)	-	-	0 (3639.200)		-
	East Midlands	-0.255 (0.530)	-0.867 (2.004)	-	0 (3639.195)		-
	West Midlands	0.007 (0.493)	-1.073 (1.325)	1.156 (1.449)	0 (3639.195)	† (7341.458)	0 (7420.949)
	East of England	-0.087 (0.439)	-1.044 (1.751)	3.362 (1.723)	0 (3639.195)		-

		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transpor provided by hospital / day centre / lunch club
Region	London	1.238***	0.696	0.317	0	-	-
(Ref = North East)		(0.461)	(1.317)	(1.833)	(3639.195)	-	-
	South East	-0.223	0.751	0.906	0	0.584	t
		(0.444)	(1.254)	(1.247)	(3639.195)	(1.580)	(4408.974)
	South West	0.088	1.383	2.119	0	-	-
		(0.457)	(1.450)	(1.490)	(3639.195)	-	-
Employment status	Employed	-0.110**	-0.023	1.020	0.950	2.514	0
(Ref = Retired)		(0.052)	(0.169)	(0.247)	(0.214)	(2.300)	(9538.637)
	Self- employed	-0.115 (0.073)	-0.663* (0.348)	0.793 (0.534)	1.074 (0.291)	2.484 (2.341)	† (8829.783)
	Unemployed	-0.149 (0.124)	2.095 (1.493)	1.231 (1.393)	1.307 (1.228)	-	-
	Permanently sick or disabled	-0.049 (0.061)	-0.042 (0.125)	1.023 (0.169)	1.068 (0.207)	0.789 (0.546)	1.567 (0.462)
	Looking after home/family	-0.008 (0.039)	0.038 (0.076)	1.033 (0.105)	1.060 (0.143)	1.079 (0.449)	0.488 (0.456)
	Semi-retired	0.107 (0.109)	-0.108 (0.377)	1.097 (0.467)	1.006 (0.412)	0 (8677.266)	-
Paid work (last month) (Ref = Not mentioned)	Mentioned	-0.068 (0.046)	-0.128 (0.143)	0.909 (0.221)	1.046 (0.190)	0.331 (1.901)	-

		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transpor provided by hospital / day centre / lunch club
Self-employment (last month)	Mentioned	-0.008	0.029	0.828	0.860	0.891	
(Ref = Not mentioned)	Ivieritionea	(0.063)	(0.267)	(0.464)	(0.240)	(2.008)	_
Voluntary work (last		(0.003)	(0.207)	(0.404)	(0.240)	(2.000)	-
month)	Mentioned	-0.012	-0.136**	0.932	1.007	0.608	1.011
(Ref = Not mentioned)		(0.027)	(0.062)	(0.114)	(0.093)	(0.457)	(0.432)
Cared for someone (last month)	Mentioned	-0.027	-0.082	0.957	1.090	0.993	0.850
(Ref = Not mentioned)		(0.026)	(0.057)	(0.097)	(0.091)	(0.366)	(0.355)
Looked after home/family (last month)	Mentioned	0.069***	0.042	0.953	1.125**	0.695	1.020
(Ref = Not mentioned)		(0.018)	(0.039)	(0.068)	(0.060)	(0.245)	(0.232)
Attended educational/training course (last month) (Ref = Not mentioned)	Mentioned	0.008 (0.051)	0.066 (0.132)	0.955 (0.293)	0.834 (0.171)	0.959 (0.714)	0.338 (1.505)
	Mentioned	-0.065**	-0.021	1.029	1.051	0.558	1.272
Ref = Not mentioned)		(0.032)	(0.067)	(0.110)	(0.107)	(0.474)	(0.384)
Diabetes (Ref = Not mentioned)	Mentioned	0.085 (0.063)	-0.040 (0.122)	1.016 (0.188)	1.127 (0.240)	1.097 (0.843)	0.998 (0.605)
Cancer	Mentioned	-0.085**	0.103	0.945	0.945	1.007	2.394**
(Ref = Not mentioned)		(0.043)	(0.085)	(0.134)	(0.127)	(0.630)	(0.420)
Chronic lung disease	Mentioned	-0.094	-0.202	1.098	1.149	5.71	1.977
(Ref = Not mentioned)		(0.066)	(0.138)	(0.253)	(0.211)	(1.685)	(0.786)

		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transpor provided by hospital / day centre / lunch club
Stroke	Mentioned	-0.388***	0.064	1.409	0.866	0.590	2.495
(Ref = Not mentioned)		(0.083)	(0.146)	(0.229)	(0.264)	(0.854)	(0.743)
Psychiatric problems	Mentioned	-0.130	0.410**	1.309	1.032	0	8.966
(Ref = Not mentioned)		(0.096)	(0.187)	(0.401)	(0.348)	(5578.716)	(1.495)
Arthritis	Mentioned	-0.007	0.068	1.086	1.001	1.199	1.009
(Ref = Not mentioned)		(0.045)	(0.098)	(0.167)	(0.160)	(0.665)	(0.514)
Asthma	Mentioned	-0.062	-0.151	0.939	0.999	1.722	0.171**
(Ref = Not mentioned)		(0.070)	(0.131)	(0.263)	(0.196)	(1.200)	(0.738)
High cholesterol	Mentioned	-0.008	0.090	1.059	1.034	1.026	1.240
(Ref = Not mentioned)		(0.028)	(0.060)	(0.099)	(0.094)	(0.396)	(0.369)
Cataracts	Mentioned	0.023	-0.038	1.057	0.992	0.963	1.066
(Ref = Not mentioned)		(0.023)	(0.042)	(0.072)	(0.067)	(0.242)	(0.204)
Parkinson's disease	Mentioned	0.049	-0.415	1.825	1.494	-	-
(Ref = Not mentioned)		(0.181)	(0.389)	(0.599)	(0.952)	-	-
Hip fracture	Mentioned	-0.296***	0.051	1.057	1.005	†	0.590
(Ref = Not mentioned)		(0.112)	(0.215)	(0.293)	(0.386)	(9081.249)	(0.747)
Memory problems	Mentioned	1.071**	0.222	4.396	†	0	2.463
(Ref = Not mentioned)		(0.529)	(0.819)	(1.194)	(860.915)	(6027.723)	(1.201)
Alzheimer's disease	Mentioned	-1.453***	-0.943*	0.745	0	1.037	†
(Ref = Not mentioned)		(0.339)	(0.545)	(0.549)	(860.913)	(0.900)	(5459.206)
Dementia	Mentioned	-0.682	-0.302	0.340	0	-	-
(Ref = Not mentioned)		(0.523)	(0.797)	(1.186)	(860.915)	-	_

Appendix table B.11 Regression analysis: use of transport modes by self-reported general health								
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club	
	Observations	17650	5754	15492	10507	10507	10507	
	R ²	0.012	0.012	0.001	0.002	0.002	0.003	

Notes: *p < 0.1, **p < 0.05, ***p < 0.01. Fixed effects regressions (longitudinal data). English Longitudinal Study of Ageing, Waves 4-7 (2008-2015). Standard errors in parentheses. Coefficients and standard errors for the logistic regression models are expressed as odds ratios and in log base respectively.

[†] denotes standard errors and non-significant coefficients with values of 10,000 or greater.

Appendix table B.12 Regression analysis: transport mode use by self-reported general health and number of health conditions Frequency of Frequency of Use of Door-to-Use of transport lifts from travel by public provided by hospital / Drive a car Use of Taxi door community family or day centre / lunch club transport transport friends Logistic Logistic Logistic **OLS Regression OLS** Regression Logistic regression regression regression regression Self-reported general Unit decline in health health -0.023 -0.051 0.948 1.075 0.952 0.711 (Min = 0 Excellent) (0.042)(0.257)(Max = 4)(0.018)(0.069)(0.066)(0.271)Health conditions -0.658 -0.238 0.349 0.000 1.111 1.297 Num. reported (0.523)(0.798)(0.941)(0.616)(1.186)(864.389)Self-reported health x 0.023*** 0.020 0.980 1.098 Number of conditions 1.009 0.988 (0.067)(Interaction) (0.007)(0.014)(0.022)(0.022)(0.083)65-79 0.033 -0.077 1.054 0.874 0.512 0.792 Age group (Ref = 50-64)(0.025)(0.100)(0.095)(0.707)(0.515)(0.174)-0.108** -0.053 1.095 80+ 1.163 0.874 0.625 (0.211)(0.662)(0.046)(0.120)(0.155)(0.866)Sex Female (Ref = Male)North West 0.474 Region 0.000 (0.540)(3639.391) (Ref = North East) Yorkshire and 0.016 0.000 the Humber (0.506)(3639.392)-0.919 East Midlands -0.2790.000 (0.530)(2.003)(3639.392)

Appendix table B.12	Regression ana	lysis: transport mo	ode use by self-re	ported general	health and num	ber of health condi	tions
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club
Region	West	-0.001	-1.098	1.155	0.000	†	0.000
(Ref = North East)	Midlands	(0.493)	(1.324)	(1.447)	(3639.391)	(7348.959)	(7266.408)
	East of	-0.095	-1.093	3.302	0.000	-	-
	England	(0.438)	(1.751)	(1.724)	(3639.392)	-	-
	London	1.235***	0.675	0.314	0.000	-	-
		(0.461)	(1.317)	(1.834)	(3639.391)	-	-
South Ea	South East	-0.231	0.731	0.903	0.000	0.588	†
		(0.443)	(1.254)	(1.247)	(3639.391)	(1.581)	(4403.404)
	South West	0.083	1.381	2.136	0.000	-	-
		(0.456)	(1.449)	(1.489)	(3639.391)	-	-
Employment status	Employed	-0.111**	-0.027	1.020	0.954	2.481	0.000
(Ref = Retired)		(0.052)	(0.169)	(0.247)	(0.214)	(2.308)	(9128.142)
	Self-employed	-0.114	-0.677*	0.793	1.078	2.414	†
		(0.073)	(0.348)	(0.534)	(0.291)	(2.354)	(8830.409)
	Unemployed	-0.151	2.145	1.250	1.290	-	-
		(0.124)	(1.493)	(1.394)	(1.231)	-	-
	Permanently	-0.046	-0.038	1.025	1.071	0.799	1.498
	sick / disabled	(0.061)	(0.125)	(0.169)	(0.207)	(0.549)	(0.467)
	Looking after	-0.008	0.039	1.033	1.061	1.079	0.495
	home/family	(0.039)	(0.076)	(0.105)	(0.143)	(0.449)	(0.455)
	Semi-retired	0.109	-0.115	1.097	1.008	0.000	-
		(0.109)	(0.377)	(0.467)	(0.412)	(8669.787)	-

Appendix table B.12	Regression ana	alysis: transport mo	ode use by self-re	ported general	health and num	ber of health condi	tions
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club
Paid work (last month)	Mentioned	-0.062	-0.116	0.912	1.041	0.325	-
(Ref = Not mentioned)		(0.046)	(0.143)	(0.221)	(0.190)	(1.909)	-
Self-employment (last month)	Mentioned	-0.006	0.033	0.829	0.857	0.885	-
(Ref = Not mentioned)		(0.063)	(0.267)	(0.464)	(0.240)	(2.011)	-
Voluntary work (last month)	Mentioned	-0.012	-0.135**	0.933	1.007	0.607	1.051
(Ref = Not mentioned)		(0.027)	(0.062)	(0.114)	(0.093)	(0.457)	(0.433)
Cared for someone (last month)	Mentioned	-0.027	-0.082	0.957	1.090	0.995	0.821
(Ref = Not mentioned)		(0.026)	(0.057)	(0.097)	(0.091)	(0.366)	(0.356)
Looked after home/family (last month)	Mentioned	0.068***	0.042	0.952	1.127**	0.694	1.051
(Ref = Not mentioned) Attended		(0.018)	(0.039)	(0.068)	(0.060)	(0.245)	(0.234)
educational/training course (last month)	Mentioned	0.010	0.071	0.960	0.832	0.954	0.342
(Ref = Not mentioned)		(0.051)	(0.132)	(0.293)	(0.171)	(0.713)	(1.503)
Hypertension	Mentioned	0.526	0.161	2.874	†	0.535	0.798
(Ref = Not mentioned)		(0.524)	(0.801)	(1.196)	(864.389)	(1.059)	(0.700)
Diabetes (Ref = Not mentioned)	Mentioned	0.690 (0.526)	0.154 (0.809)	2.846 (1.200)	† (864.389)	1.024 (1.233)	0.686
							(0.848)
Cancer	Mentioned	0.512	0.285	2.652	†	0.952	1.558
(Ref = Not mentioned)		(0.525)	(0.806)	(1.198)	(864.389)	(1.108)	(0.734)

Appendix table B.12 Regression analysis: transport mode use by self-reported general health and number of health conditions Frequency of Frequency of Use of Door-to-Use of transport lifts from travel by public Use of Taxi door community provided by hospital / Drive a car family or day centre / lunch club transport transport friends Chronic lung disease Mentioned 0.519 -0.005 3.085 † 5.563 1.258 (0.527)(0.811)(1.217)(864.389)(1.897)(1.018)(Ref = Not mentioned)0.222 Stroke Mentioned 0.255 3.976 + 0.553 1.510 (0.530)(0.813)(1.211)(864.389)(1.232)(0.960)(Ref = Not mentioned)Psychiatric problems Mentioned 0.467 0.612 3.673 0.000 4.703 (0.532)(0.822)(1.257)(5578.932)(1.583)(Ref = Not mentioned)(864.389)0.239 Arthritis Mentioned 0.579 3.027 1.163 0.566 (1.211)(Ref = Not mentioned)(0.525)(808.0)(864.389)(1.093)(0.775)0.119** Asthma Mentioned 0.535 0.042 2.651 1.600 (Ref = Not mentioned)(0.528)(0.814)(1.217)(864.389)(1.517)(0.945)Mentioned 0.579 0.265 2.961 0.952 0.744 High cholesterol (Ref = Not mentioned)(0.524)(0.805)(1.194)(864.389)(0.937)(0.718)Mentioned 0.613 2.954 0.905 0.668 Cataracts 0.143 (0.524)(864.389)(Ref = Not mentioned)(0.804)(1.193)(0.910)(0.618)0.643 -0.232 5.092 Parkinson's disease Mentioned (0.554)(0.891)(1.334)(864.389)(Ref = Not mentioned)Hip fracture Mentioned 0.309 0.230 2.968 0.342 + (0.535)(0.829)(1.223)(0.947)(Ref = Not mentioned)(864.389)(9085.050)Memory problems Mentioned 1.598 0.332 11.949 † 0.000 (Ref = Not mentioned) (1.039)(1.596)(2.349)(1728.777)(6011.461) Alzheimer's disease Mentioned -0.824* -0.696 2.100 1.325 † (Ref = Not mentioned)(0.440)(0.680)(1.141)(1.688)(5541.003)

Appendix table B.12 Regression analysis: transport mode use by self-reported general health and number of health conditions								
		Frequency of travel by public transport	Frequency of lifts from family or friends	Drive a car	Use of Taxi	Use of Door-to- door community transport	Use of transport provided by hospital / day centre / lunch club	
Dementia	Mentioned	-	-	-	-	-	-	
(Ref = Not mentioned)		-	-	-	-	-	-	
	Observations	17650	5754	15492	10507	10507	10507	
	R^2	0.013	0.012	0.001	0.002	0.001	0.003	

Notes: *p < 0.1, **p < 0.05, ***p < 0.01. Fixed effects regressions (longitudinal data). English Longitudinal Study of Ageing, Waves 4-7 (2008-2015). Standard errors in parentheses. Coefficients and standard errors for the logistic regression models are expressed as odds ratios and in log base respectively.

[†] denotes standard errors and non-significant coefficients with values of 10,000 or greater.

Appendix C: Survey Questions

Understanding Society

Reference	Question	Response options	Waves
Impairments			
Health.	Do you have any long- standing physical or mental impairment, illness or disability? By 'long- standing' I mean anything that has troubled you over a period of at least 12 months or that is likely to trouble you over a period of at least 12 months	1 Yes 2 No	1-7
Disdif.	Even though you don't have any long-standing health problems, do {if HEALTH = 2} / Do {if HEALTH <> 2} you have any health problems or disabilities that mean you have substantial difficulties with any of the following areas of your life?	1 Mobility (moving around at home and walking) 2 Lifting, carrying or moving objects 3 Manual dexterity 4 Continence (bladder and bowel control) 5 Hearing (apart from using standard hearing aid) 6 Sight (apart from wearing standard glasses) 7 Communication or speech problems 8 Memory or ability to concentrate, learn or understand 9 Recognising when you are in physical danger 10 Your physical co-ordination (e.g. balance) 11 Difficulties with own personal care (e.g. getting dressed, taking a bath or shower) 12 Other health problem or disability 96 None of these	1-7
Dissev.	How much difficulty do you have with [DisDif]? Would you say	1 Some difficulty 2 A lot of difficulty 3 Unable to do this?	1-7

Reference	Question	Response options	Waves
Health conditions			
Hcond. (Note: part of question family used to compute longitudinal variable)	Has a doctor or other health professional ever told you that you have any of these conditions? Please just tell me the numbers that apply.	1 Asthma 2 Arthritis 3 Congestive heart failure 4 Coronary heart disease 5 Angina 6 Heart attack or myocardial infarction 7 Stroke 8 Emphysema 9 Hyperthyroidism or an overactive thyroid 10 Hypothyroidism or an under-active thyroid 11 Chronic bronchitis 12 Any kind of liver condition 13 Cancer or malignancy 14 Diabetes 15 Epilepsy 16 High blood pressure 17 Clinical depression 18 Other longstanding/chronic condition, please specify 96 None of these	1-7
Mobility/transport u	se		
Trcarfq. (Note: scale inverted for regression analysis)	How frequently do you travel by private car or van - whether as a driver or passenger? Please count a single trip as one journey and each return trip as two	1 At least once a day 2 Less than once a day but at least 3 times a week 3 Once or twice a week 4 Less than that but more than twice a month 5 Once or twice a month 6 Less than that but more than twice a year 7 Once or twice a year 8 Less than that or never	4, 6

Reference	Question	Response options	Waves
Trbusfq. (Note: scale inverted for regression analysis)	How frequently do you use an ordinary bus? Please count a single trip as one journey and each return trip as two.	1 At least once a day 2 Less than once a day but at least 3 times a week 3 Once or twice a week 4 Less than that but more than twice a month 5 Once or twice a month 6 Less than that but more than twice a year 7 Once or twice a year 8 Less than that or never	4, 6
Trtrnfq. (Note: scale inverted for regression analysis)	How frequently do you use a train, not including underground, tram or light rail? Please count a single trip as one journey and each return trip as two	1 At least once a day 2 Less than once a day but at least 3 times a week 3 Once or twice a week 4 Less than that but more than twice a month 5 Once or twice a month 6 Less than that but more than twice a year 7 Once or twice a year 8 Less than that or never	4, 6
Trbikefq. (Note: scale inverted for regression analysis)	How frequently do you use a bicycle? Please count a single trip as one journey and each return trip as two	1 At least once a day 2 Less than once a day but at least 3 times a week 3 Once or twice a week 4 Less than that but more than twice a month 5 Once or twice a month 6 Less than that but more than twice a year 7 Once or twice a year 8 Less than that or never	4, 6
Carmiles.	About how many miles would you say you personally have driven in the last twelve months? If you drive more than one car owned by or available to your household, please give the mileage for the car you drive most often.	<positive integer=""></positive>	1, 4
Demographics			
Ageif.	What was [your] age at [your] last birthday? If you don't know please give your best estimate.	<positive integer=""></positive>	1-7
Sex.	Are you male or female?	1 Male 2 Female	1-7

Reference	Question	Response options	Waves
GOR	Region (derived variable, based on respondent's postcode)	1 North East 2 North West 3 Yorkshire and Humber 4 East Midlands 5 West Midlands 6 East of England 7 London 8 South East 9 South West 10 Wales 11 Scotland 12 Northern Ireland	1-7
Urban/ rural	Urban/rural (derived variable, based on respondent's postcode)	1 Urban 2 Rural	1-7
Jbstat.	Which of these best describes your current employment situation?	1 Self-employed 2 In paid employment (full or part time) 3 Unemployed 4 Retired 5 On maternity leave 6 Looking after family or home 7 Full-time student 8 Long term sick or disabled 9 On a government training scheme 10 Unpaid worker in family business 11 Working in an apprenticeship 97 Doing something else	1-7

English Longitudinal Study of Ageing

Reference	Question	Response options	Waves		
Activities of	Activities of Daily Living (ADL)				
HEADLA	Because of a health problem, [^do you /does he /does she] have difficulty doing any of the activities on this card? Exclude any difficulties that you expect to last less than three months INTERVIEWER: PROBE - 'What others?'Code all that apply. (Response options in bold used in the analysis ⁷)	1 Walking 100 yards 2 Sitting for about two hours 3 Getting up from a chair after sitting for long periods 4 Climbing several flights of stairs without resting 5 Climbing one flight of stairs without resting 6 Stooping, kneeling, or crouching 7 Reaching or extending [^your / his / her] arms above shoulder level (either arm) 8 Pulling or pushing large objects like a living room chair 9 Lifting or carrying weights over 10 pounds, like a heavy bag of groceries 10 Picking up a 5p coin from a table 96 None of these	1-7		
Instrumental	Activities of Daily Living (IADI	-)			
HEADLB	Here are a few more everyday activities. Please tell me if [^you have / [^name] has] any difficulty with these because of a physical, mental, emotional or memory problem. Again, exclude any difficulties you expect to last less than three months. Because of a health or memory problem, [^do you /does he /does she] have difficulty doing any of the activities on this card? INTERVIEWER: PROBE - 'What others?'Code all that apply. (Response options in bold used in the analysis ⁸)	1 Dressing, including putting on shoes and socks 2 Walking across a room 3 Bathing or showering 4 Eating, such as cutting up ^[your / his / her] food 5 Getting in or out of bed 6 Using the toilet, including getting up or down 7 Using a map to figure out how to get around in a strange place 8 Recognising when you are in physical danger 9 Preparing a hot meal 10 Shopping for groceries 11 Making telephone calls 12 Communication (speech, hearing or eyesight) 13 Taking medications	1-7		

Only the answer options that are relevant for mobility were included in the analysis.
 Only the answer options that are relevant for mobility were included in the analysis.

Reference	Question	Response options	Waves
		14 Doing work around the house or garden 15 Managing money, such as paying bills and keeping track of expenses 96 None of these	
Impairments			
HEFUNC	By [^yourself / himself / herself] and without using any special equipment, how much difficulty [^do you / does [^name]] have walking for a quarter of a mile? [^Do you / Does he / Does she] have INTERVIEWER: Read out	1 No difficulty 2 Some difficulty 3 Much difficulty 4 Unable to do this?	1-7
Self-reported	i health		
HEHELF	Would you say your health is	1 Excellent 2 Very good 3 Good 4 Fair 5 Poor ⁹	1-7
Raw variables measuring health conditions (used as basis for the derived variables included in the analysis) ¹⁰			
HEDIAA (Note: part of question family used to compute longitudinal variable)	[^Has / Apart from what you have already told us, and thinking about what has happened since we last saw [^you / [^name]] on [^date of last interview] has] a doctor [^BLANK / ever] told [^you / [^name]] that [^you have / he	1 High blood pressure or hypertension 2 Angina 3 A heart attack (including myocardial infarction or coronary thrombosis) 4 Congestive heart failure	1-7

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⁹ In Wave 3 of ELSA, the possible responses were different compared to other waves: 1. Very good, 2. Good, 3. Fair, 4. Bad, 5. Very bad.

¹⁰ Health conditions were measured by a set of derived variables extracted from the Harmonised ELSA data set that were further derived using variables form the raw ELSA dataset. This was done to compute a variable that indicates whether the responded was suffering from each given illness in the given wave. The harmonised data included a derived variable indicating for each wave whether a particular health condition was ever experienced. The raw ELSA data contains variables that measure if any new conditions are experienced since the previous waves but also whether the conditions mentioned in the previous waves are still experienced. We used the harmonised data and this second variable to measure if a condition is experienced in the given wave. As such, the inclusion of various health conditions was limited by the availability of the relevant variables in both datasets. Only the health conditions that are consistently and repeatedly measured in subsequent ELSA waves are included in the Harmonised dataset. The health conditions included are: hypertension, diabetes, cancer or malignant tumour, chronic lung disease, stroke, psychiatric problems, arthritis (including osteoarthritis, rheumatism), asthma, high cholesterol, cataracts, Parkinson's disease, hip fracture, memory problems, Alzheimer's disease, dementia.

Reference	Question	Response options	Waves
	has / she has] (or have had) any of the [^BLANK / other] conditions on this card? INTERVIEWER: PROBE - 'What others?' Code all that apply. (Response options in bold used in the analysis)	5 A heart murmur [] 6 An abnormal heart rhythm 7 Diabetes or high blood sugar 8 A stroke (cerebral vascular disease) 9 High cholesterol 95 Any other heart trouble (SPECIFY) 96 None of these	
HEDIAB (Note: part of question family used to compute longitudinal variable)	^Has / Apart from what you have already told us, and thinking about what has happened since we last saw [^you / [^name]] on [^date of last interview] has / Thinking about what has happened since we last saw [^you / [^name]] on [^date of last interview] has] a doctor [^BLANK / ever] told [^you / [^name]] that [^you have / he has / she has] (or had) any of the [^BLANK / other] conditions on this card? (Response options in bold used in the analysis)	1 Chronic lung disease such as chronic bronchitis or emphysema 2 Asthma 3 Arthritis (including osteoarthritis, or rheumatism) 4 Osteoporosis, sometimes called thin or brittle bones 5 Cancer or a malignant tumour (excluding minor skin cancers) 6 Parkinson's disease 7 Any emotional, nervous or psychiatric problems 8 Alzheimer's disease 9 Dementia, senility or another serious memory impairment 10 Malignant blood disorder, e.g. leukaemia 11 Multiple Sclerosis or Motor Neurone Disease 96 None of these	1-7
HEPSY (Note: part of question family used to compute longitudinal variable)	What type of emotional, nervous or psychiatric problems [^do (did) you /does (did) [^name]] have?	1 Hallucinations 2 Anxiety 3 Depression 4 Emotional problems 5 Schizophrenia 6 Psychosis 7 Mood swings 8 Manic depression 95 Something else	1-7
HEFRAC	Have you [^BLANK / ever] fractured your hip since we last talked to you on [^]?	1 Yes 2 No	1-7
НЕОРТ	[^Has / Apart from what you have already told us and thinking about what has happened since we last saw [^you / [^name]] on [^date of last interview] has] a doctor or optician [^BLANK /ever] told [^you/ [^name]] that [^you have/ he has/ she has] (or [^you/ he/ she] had) [^BLANK /any of these other	1 Glaucoma or suspected glaucoma 2 Diabetic eye disease 3 Macular degeneration 4 Cataracts 96 None of these	1-7

Reference	Question	Response options	Waves
	conditions] INTERVIEWER: Read out each in turn and code all that apply. Include Diabetic Retinopathy in code 2. Include age related Maculopathy in code 3. (Response options in bold used in the analysis)		
Mobility aids	;		
HEADID	^Do you / Does [^name]] use any of these? Only include personal alarms used to call for assistance after falls etc. (Response options in bold used in the analysis ¹¹)	1 A cane or walking stick 2 A Zimmer frame or walker 3 A manual wheelchair 4 An electric wheelchair 5 A buggy or scooter 6 Special eating utensils 7 A personal alarm 8 Elbow crutches 96 None of these	1-7
HEHAID	Nowadays, do you ever wear a hearing aid? INTERVIEWER: If Yes ask: Do you wear your hearing aid(s) some of the time or most of the time?	1 Yes, most of the time 2 Yes, some of the time 3 No	7
Mobility/tran	sport use		
SPTRAA	How often [^do you/does ^[name]] use public transport?	1 Every day or nearly every day 2 Two or three times a week 3 Once a week 4 Two or three times a month 5 Once a month or less 6 Never	1-7
SPCARA	IF has use of car or van = Yes [SPCar = 1] [Do you/ Does [^name] ever drive this car or van ^[yourself/himself/herself]?	1 Yes 2 No, passenger only	2-7
SPTRO	[Do you/Does ^[name]] ever use any of the following means of transport? (Response options in bold used in the analysis)	1 Lifts from family or friends not lived with 2 Taxi 3 Door-to-door community transport, e.g. dial-a-ride 4 Transport provided by hospital / day centre / lunch club	3-7

¹¹ Only the answer options that are relevant for mobility were included in the analysis.

Reference	Question	Response options	Waves
		5 [(Care home respondents only) Transport provided by care home] 96 None of these	
SPLIFT	How often [do you/does ^[name]] get lifts from family or friends who do not live with ^[you/him/her]?	1 Every day or nearly every day 2 Two or three times a week 3 Once a week 4 Two or three times a month 5 Once a month or less 6 SPONTANEOUS - do not currently use	3-7
SPTAXI	How often [do you/does name] use a taxi?	1 Every day or nearly every day 2 Two or three times a week 3 Once a week 4 Two or three times a month 5 Once a month or less 6 SPONTANEOUS - do not currently use	3-7
Demographic	cs		
INDAGER	Age variable	<positive integer=""></positive>	1-7
INDSEX2	Recoded gender variable	0 Female 1 Male	0 - 1
WPDES	Which one of these, would you say best describes ^[your/name's] current situation?	1 Retired 2 Employed 3 Self-employed 4 Unemployed 5 Permanently sick or disabled 6 Looking after home or family 95 Other (specify) 96 Spontaneous: semi-retired	1-7
WPACT	Did ^[you/name] do any of these activities during the last month, that is since ^[date one month ago]? CODE ALL THAT APPLY	1 Paid work 2 Self-employment 3 Voluntary work 4 Cared for someone 5 Looked after home or family 6 Attended a formal educational or training course 96 None of these	1-7
GOR_N	Government officer region (region) variable	1 North East 2 North West 3 Yorkshire and The Humber 4 East Midlands 5 West Midlands 6 East 7 London 8 South East 9 South West	1-7