

Parental wealth and children's outcomes

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Outline



- Motivation
- Wealth measures at MCS5
 - Information collected
 - Construction of variables
- Research objectives
- Methods
- Results
- Conclusions

What is wealth and why should we be interested in it?

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- Wealth is a stock of resources:
 - measured at one point in time
 - but accumulated over time
- 4 components: property, financial, physical, pension
- Wealth could be a more accurate indicator of longer term economic resources of the family and a family's access to opportunities and advantages (Oliver and Shapiro, 1995)

What does wealth capture? (that income might not so well)

- Additional assets = additional resources for children
 - Housing wealth allow families to access higher performing schools or to fund education and resources
- Sense of security and empowerment of holding an asset:
 - Protection from day to day stress and anxiety
 - Income shocks e.g. job loss, health
 - 'Conspicuous consumption' alleviate class anxiety, increase prestige, aspirations and expectations, acceptance peers
- Family characteristics and behaviours:
 - Postponement of consumption, financial discipline, long term planning...
 - Attributed to past generations

How do we measure economic resources?



- Family economic resources are usually measured by:
 - Income: current and 'permanent' (=measured at more occasions)
 - Material resources: having or being able to afford certain goods or experiences
- Information on wealth is seldom collected, but questions about wealth are sometimes included in household surveys:
 - BCS, NCDS, MCS, Understanding Society collect information on wealth: some info, not at all waves
 - Wealth and Assets survey (ONS): dedicated to wealth

MCS5 (age 11) collects information on wealth (2012/13)

- Information on housing and financial wealth:
- Housing: to home owners only
 - The value of their home
 - The amount of their mortgage
- Financial:
 - Whether they had savings and investments, if so: what amount?

Savings= Bank or savings account, Premium bonds/National savings, ISA, stocks & shares, Unit trusts, other property, other savings, investments and assets

• Whether they had any debt, if so: what amount?

Debt = credit or store card, hire purchase, personal loans, catalogue or mail order purchase, DWP social fund loan, other loan, student loan, other debt

Net household wealth in the MCS at age 11 (2012/13)





Net total wealth = Net housing wealth +

net financial wealth

Net housing wealth = Value of home outstanding mortgage

Net financial wealth = Savings - debt

Net financial and housing wealth (MCS age 11)



300000 N=10,380 Financial wealth (£) 100000 200000 1% £270k or more 1% negative £37,000 or more Median=£0 0 P10=(£8,700) P90=£20,000 -100000 Т 20 40 80 100 0 60 Financial wealth (percentiles)

FINANCIAL WEALTH

800000 N=6,924 (home owners) 1% £600k or more 600000 Net housing wealth (£) P90=£315K 400000 Median=£120K 200000 P10=£30,000 0 40 80 20 60 100 Net housing wealth (£) all home owners Net housing wealth (all sample)

HOUSING WEALTH: home owners, all sample

MCS5 Financial wealth (actuals)

	Savings and investments	Debt	Net financial wealth	WAS3
	(Including zero)	(Including zero)	(including zero)	(2010-12)
		· · · ·	All responding savings and debt	Families with dependent children
	MCS5	MCS5	MCS5	
Base:	10,805	12,377	10,437	5,811
Median	300	200	0	1,493
Mean	31,301	4,397	27,420	33,074
Minimum	0	0	-560,622	-
Maximum	70,000,000	5,000,000	65,000,000	-
Percentiles				
10	0	0	-8,500	-11,229
25	0	0	-1700	-1,985
50	300	200	0	1,493
75	4,000	3,000	2,087	21,351
90	21,000	10,000	20,000	80,450

MCS5 Property wealth (actuals)

	House	value	Mortgage	Net property wealth	
	MCS5	WAS3 (2010-12)	MCS5	WAS3 (2010-12)	MCS5
No. households:	8,015	3,196	6,511	3,347	7,334
Median	200,000	200,000	80,000	98,000	120,000
Mean	269,776	253,840	102,296	114,431	176,939
Minimum	0	-	0	-	-1,980,000
Maximum	10,000,000	-	2,200,000	-	10,000,000
Percentiles					
10	95,000	100,000	20,000	29,000	26,000
25	130,000	140,000	48,000	57,500	60,000
50	200,000	200,000	80,000	98,000	120,000
75	300,000	300,000	130,000	147,000	200,000
90	475,000	450,000	200,000	214,000	347,050



- Is wealth related to children's outcomes?
 Cognitive ability, mental and physical health
- How does this compare to family income? (In particular 'permanent income')
- Do these results vary depending on children's outcomes?

Variables

- Dependent variables: (standardised):
 - Child mental health (Total difficulties: SDQ)
 - Verbal cognition
 - General physical health
- Main independent variables:
 - Wealth (natural log standardised and percentiles):
 - Total wealth (housing wealth + financial wealth)
 - Individual wealth components: net housing wealth, house value, financial wealth
 - Income (natural log standardised)
 - Contemporaneous
 - Permanent

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Analytical approach

- OLS regression models: for each outcome and types of wealth
 - Model 1: Type of wealth
 - Model 2: + Child factors (age, sex, ethnicity, SDQ / cognition / physical health*)
 - Model 3: + Household factors (region, age of parents, education, NS-SEC, single family, parity, mother's mental health, IMD)
 - Model 4: + contemporaneous income
 - Model 5: switch contemporaneous to permanent income

Wealth, income and child outcomes: correlations

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	Total wealth	Housing wealth	Financial wealth	House value	Current income	Permane nt income	Cognitive ability	SDQ
Housing wealth	.934							
Financial wealth	.609	.285						
House value	.781	.846	.260					
Current income	.537	.556	.207	.394				
Permanent income	.601	.606	.266	.542	.845			
Cognitive ability	.180	.180	.082	.135	.240	.260		
Total difficulties		- / -						
(SDQ)	211	216	089	145	275	277	238	
General health	.166	.122	.040	.088	.200	.211	.123	295

Source: MCS5 (age 11)

Wealth (housing) increases sharply with education and class







CLASS

EDUCATION

Source: MCS5 (age 11)

Total difficulties (SDQ) – All sample



	Total	wealth	Housing and financial (all)		
	Current Income (n=8,704)	Permanent Income (n=8,704)	Current Income (n=8,704)	Permanent Income (n=8.074)	
	(11-0,704)			(11-0,07-4)	
Total wealth (log)	-0.15**	-0.13*			
Housing wealth (log)			-0.07***	-0.06**	
Financial wealth (log)			-0.02	-0.02	
Permanent income (log)		-0.19***		-0.16***	
Current income (log)	-0.22***		-0.19***		

Model controls:

1: Child factors (sex, age, ethnicity, cognition/general physical health)

2: Household characteristics (region, age of parents, education, NS-SEC, single family, parity, mother's mental health, IMD)

Total difficulties (SDQ) – Home owners only



	Housing ar	nd financial	House	value
	Current	Permanent	Current	Permanent
	Income	Income	Income	Income
	(n=4,949)	(n=4,949)	(n=4,949)	(n=4,949)
Housing wealth (log)	-0.10**	-0.09**		
Financial wealth (log)	-0.02	-0.01		
House value (log)			-0.13***	-0.11**
Permanent income (log)		-0.18**		-0.15*
Current income (log)	-0.30***		-0.30***	

Model controls:

1: Child factors (sex, age, ethnicity, cognition/general physical health)

2: Household characteristics (region, age of parents, education, NS-SEC, single family, parity, mother's mental health, IMD)

Verbal cognitive ability – All sample



	Total v	wealth	Housing and financial (all)		
	Current	Permanent	Current	Permanent	
	Income	Income	Income	Income	
	(n=8,704)	(n=8,704)	(n=8,704)	(n=8,074)	
Total wealth (log)	0.13*	0.09+			
Housing wealth (log)			0.04+	0.02	
Financial wealth (log)			0.02	0.01	
Permanent income (log)		0.15***		0.15***	
Current income (log)	0.09+		0.08		

Model controls:

1: Child factors (sex, age, ethnicity, cognition/general physical health)

2: Household characteristics (region, age of parents, education, NS-SEC, single family, parity, mother's mental health, IMD)

Verbal cognitive ability – Home owners only



	Housing a	nd financial	House	value
	Current	Permanent	Current	Permanent
	Income	Income	Income	Income
	(n=4,949)	(n=4,949)	(n=4,949)	(n=4,949)
Housing wealth (log)	0.05+	0.04		
Financial wealth (log)	0.01	0.01		
House value (log)			0.08*	0.05
Permanent income (log)		0.12+		0.10
Current income (log)	-0.12		-0.12	

Model controls:

1: Child factors (sex, age, ethnicity, cognition/general physical health)

2: Household characteristics (region, age of parents, education, NS-SEC, single family, parity, mother's mental health, IMD)

General physical health



	<u>Total wealth</u>		Housing an (a	Housing and financial (all)		Housing and financial (home owner)		<u>House value</u> (home owner)	
	Current Income (n=8,704)	Permanent Income (n=8,704)	Current Income (n=8,704)	Permanent Income (n=8,074)	Current Income (n=4,949)	Permanent Income (n=4,949)	Current Income (n=4,949)	Permanent Income (n=4,949)	
Total wealth (log) Housing wealth (log) Financial wealth (log)	0.07	0.02	0.05* 0.03	0.03 0.04+	0.02 -0.03	0.00 0.03			
House value (log)							0.06	0.04	
Permanent income (log)		0.19***		0.17***		0.28***		0.27***	
Current income (log)	0.08		0.05		0.07		0.07		

Model controls:

1: child factors (sex, age, ethnicity, cognition/SDQ

2: Household characteristics (region, age of parents, single family, parity, mother's mental health, IMD) 3: Household SES (education, NS-SEC)

Recap and conclusions



- Wealth seems to be related to child outcomes at age 11
 - Driven by housing wealth: because low financial wealth? Measurement error?

- Mental health associated with housing wealth, even after controlling for family SES, including 'permanent income'
 - Fewer peer problems related to greater total and housing wealth
 - Less hyperactivity related to greater total, housing and financial wealth

Family stress model? Conspicuous consumption? Time invested in children reduces accumulation wealth and vice versa?

Recap and conclusions

- Verbal cognitive ability explained by 'permanent income' (and other household SES in particular education) rather than wealth
 - Would the result be different in the case of other cognitive measures e.g. maths?
 - Future work: other abilities and/or educational outcomes

- General physical health was better explained by 'permanent income' than by wealth:
 - At age 11 few children were children in poor health
 - Future work: investigate specific health issues (e.g. asthma)

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Thank you

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