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How do those already out of employment fare when the state pension age rises?

Introduction and motivation

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- State pension age for women has gradually increased from 60 to 66
- Women who have turned 60 but not reached state pension age now:
 - Cannot receive a state pension
 - Face the working-age tax and benefit system for longer
- Previous work shows substantial impact on incomes and poverty
 - How does this affect expenditure and wellbeing?
- We focus on women who had left employment before 60
 - Who do not delay retirement as a result of the reform

Increase in female state pension age IIIFS

UK state pension age for women by date of birth



Data

- English Longitudinal Study of Ageing (ELSA)
 - Biennial, longitudinal survey running since 2002–03
 - Rich data on incomes, wealth, work, health, other demographics
 - Representative of England's age 50+ population
- Sample:
 - We use data from 2008–09 to 2018–19; SPA was 60 at the start and just over 65 by the end of the data
 - Women aged 58 to 65: 7,281 observations
 - Those not in paid work at age 58: 2,611 observations

Outcomes: How are people faring?

- We examine a range of different outcomes:
- Employment and income
- Expenditure
 - ELSA contains questions on household expenditure on a range of non-durable goods and services (but not all expenditure)
 - We look at weekly expenditure on: food in home (excluding alcohol and tobacco), food out, leisure, gas and electricity, clothing

Life satisfaction

 Score between 0-10 measuring how satisfied a person felt the previous day

shares

Methodology



Basic TWFE model

$$Y_{it} = \beta overSPA_{it} + \sum_{a=1}^{A} \theta_a \cdot [age_{it} = a] + \gamma_t + \delta X_{it} + \varepsilon_{it}$$
(1)

- As well as age and time fixed effects, control for other characteristics: education, region, marital status, partner's age and education
- Exploits that fact that people born after April 1950 have a gradually higher state pension age
- Implement the Borusyak, Jaravel, and Spiess (2024) imputation method
- Key assumption: "common trends" i.e. without reform outcomes for 59 year olds would have changed in the same way as for 60+ year olds
- We examine effect of being over SPA on income, household expenditure and wellbeing
 - Focusing mostly on those not in paid work at age 58

Individuals out of work at 58 remain out of work



Effect on employment of being above SPA

	All	In work at 58	Out of work at 58
Above SPA	-0.11***	-0.16***	0.01
95% confidence interval	[-0.16, -0.06]	[-0.21, -0.12]	[-0.04, 0.07]
Observations	7,281	4,580	2,611
Mean	0.49	0.74	0.05

***, ** and * denote that the effect is significantly different from zero at the 1%, 5% and 10% level respectively. Results can be interpreted as the average percentage point difference in probability of employment between individuals above the SPA compared to those below the SPA, holding constant age, time and individual characteristics.



Mean income of women (out of work at 58) over time, by single year of age





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For women out of work early, expenditure IIIFS is less responsive to SPA increase

Mean household expenditure over time, by single year of age



Note: The lines are dashed from the last year in which all women of that age were over the SPA until the first year in which all women of that age were under the SPA. Only including households of women who are out of work at age 58. Household expenditure excludes durables and transfers. Expenditure is given in 2018/19 prices and is winsorized to the 95th percentile.



Regression results

Effect of SPA on women's expenditure and wellbeing

Income results: Individual



Total individual income

	All	In work at 58	Out of work at 58
Above SPA	47.7***	42.2***	81.1***
95% confidence interval	[22.0, 73.4]	[14.0, 70.4]	[47.5, 115]
Observations	7,258	4,568	2,600
Mean	253.2	304.1	165.8

***, ** and * denote that the effect is significantly different from zero at the 1%, 5% and 10% level respectively. Income is given in £ per week, in 2018/19 prices. Results can be interpreted as the average pound difference in income between individuals above the SPA compared to those below the SPA, holding constant age, time, and individual characteristics. Income includes that from: employment, self-employment, private pension, state pension, state benefits. Income is winsorized to the 99th percentile. Mean is calculated amongst women aged 58-66.

Individual income: Not in work at IIIFS 58



Graph shows the average change in weekly individual income, holding constant age, time, and individual characteristics. Income includes that from: employment, self-employment, private pension, state pension, state benefits. Income is winsorized to the 99th percentile.

Income results: Including Partner

Income including partner

	All	In work at 58	Out of work at 58
Above SPA	43.6*	5.62	97.0**
95% confidence interval	[-3.00, 90.1]	[-52.7, 63.9]	[12.4, 182]
Observations	7,257	4,567	2,600
Mean	623.2	684.1	518.7

***, ** and * denote that the effect is significantly different from zero at the 1%, 5% and 10% level respectively. Income is given in £ per week, in 2018/19 prices. Results can be interpreted as the average pound difference in income between individuals above the SPA compared to those below the SPA, holding constant age, time, and individual characteristics. Income includes that from: employment, self-employment, private pension, state pension, state benefit and asset income. Income is winsorized to the 99th percentile. Mean is calculated amongst sample of women aged 58-65.

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Expenditure results



Total expenditure

	All	In work at 58	Out of work at 58
Above SPA	-5.18	-3.12	-6.08
95% confidence interval	[-15.1, 4.80]	[-15.8, 9.61]	[-19.0, 6.84]
Observations	6,988	4,404	2,501
Mean	179.7	188.6	164.6

***, ** and * denote that the effect is significantly different from zero at the 1%, 5% and 10% level respectively. Expenditure is given in £ per week, in 2018/19 prices. Results can be interpreted as the average pound difference in household expenditure between individuals above the SPA compared to those below the SPA, holding constant age, time and individual characteristics. Expenditure includes food in home, food out, leisure, gas and electricity, clothing. Expenditure is winsorized to the 99th percentile. Mean is calculated amongst sample of women aged 58-65.



Graph shows the average change in weekly household expenditure, holding constant age, time, and individual characteristics. Expenditure includes food in home, food out, leisure, gas and electricity, clothing. Expenditure is winsorized to the 99th percentile.

Expenditure results: by component

Components of expenditure for those out of work at 58

	Food in home	Gas and electricity	Clothes	Food out	Leisure
Above SPA	-4.30	-3.48**	1.44	-0.80	0.93
95% confidence interval	[-12.1, 3.46]	[-6.70, -0.254]	[-3.91, 6.79]	[-3.97, 2.36]	[-3.56, 5.41]
Observations	2,602	2,517	2,596	2,606	2,604
Mean	84.5	28.5	19.3	13.3	17.0

***, ** and * denote that the effect is significantly different from zero at the 1%, 5% and 10% level respectively. Expenditure is given in £ per week, in 2018/19 prices. Results can be interpreted as the average pound difference in expenditure between individuals above the SPA compared to those below the SPA, holding constant age, time and individual characteristics. 'Gas and electricity' also includes spending on oil, paraffin, coal and wood for the home. Expenditure is winsorized to the 99th percentile. Mean is calculated amongst women aged 58-65 who are not in work at age 58.

Wellbeing results: Life Satisfaction

Life satisfaction score

	All
Above SPA	0.32*
95% confidence interval	[-0.003, 0.64]
Observations	3,869
Mean	7.2

***, ** and * denote that the effect is significantly different from zero at the 1%, 5% and 10% level respectively. Results can be interpreted as the average change in life satisfaction score between individuals above the SPA compared to those below the SPA, holding constant age, time and individual characteristics. Life satisfaction score is on a scale from 0-10, with 0 indicating the individual did not feel satisfied at all yesterday, and 10 indicating they felt very satisfied. The sample size is smaller for this outcome as it is only asked from wave 6 of ELSA onwards (2010-11 onwards). Mean is calculated amongst sample of women aged 58-65. Insufficient sample size to estimate out of work at 58.

Conclusions



- When the SPA increases, for women already out of the workforce and under the SPA:
 - Individual income is lower
 - Total income including partner is lower
 - Household expenditure largely unresponsive
 - Wellbeing shows signs of potential decline
 - Life satisfaction is worse

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Expenditure shares



- Compare expenditure components in ELSA to Living Costs and Food Survey (LCFS)
 - Comparison group: 55-70 age group in 2018/19
- Expenditure categories in ELSA make up 37% of total spending in LCFS
- Main missing components
 - Transport (15%)
 - Rent (5%)
 - Packaged holidays (6%)
 - Furniture and other equipment (7%)

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