



**SIMULATING THE REFORM OF MEANS-TESTED BENEFITS WITH
ENDOGENOUS TAKE-UP AND CLAIM COSTS**

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BHPS data provide the academic community, policymakers and private sector with a unique national resource and allow for comparative research with similar studies in Europe, the United States and Canada.

BHPS data are available from the Data Archive at the University of Essex
<http://www.data-archive.ac.uk>

Further information about the BHPS and other longitudinal surveys can be obtained by telephoning +44 (0) 1206 873543.

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ABSTRACT

Microsimulation models are commonly used to examine the distributional impact of reforms of the means-tested benefit system. Take-up behaviour is related to the level of entitlement, so reform may induce changes in take-up. We develop a stochastic simulation method and apply it to a probit model of Income Support take-up by British pensioners. The method allows us to adjust net income for the welfare losses due to tangible or intangible claim costs. Endogenous take-up and claim costs both have an important impact on the simulated outcomes of the policy reform.

NON-TECHNICAL SUMMARY

In the UK, means-testing plays a large role in the targeting of welfare benefits on those in need. Examples of means-tested benefits include Income Support, Housing Benefit and Council Tax Benefit, which are only available to those with sufficiently low levels of income and savings. While means-testing is effective in controlling the cost of the benefit system, the necessity to claim one's entitlement and then meet an income/assets test may deter some low-income households from taking up their entitlements.

Analysis of the impact of a proposed reform of the benefit system is usually done by means of microsimulation models, which examine the financial impact of the reform on a large sample of individual households. Such simulations are most commonly done under very strong assumptions about take-up behaviour (for example, 100% take-up) and they usually make no attempt to quantify the claim costs which prevent people claiming their entitlements.

In this paper, we do four things:

(1) We develop a statistical model of the take-up of Income Support (also known as the Minimum Income Guarantee) by pensioners, using data from the Family Resources Survey from the three tax years 1997-2000. We focus on the group of older pensioners (specifically 1- and 2-pensioner households, with members at least 5 years over state retirement age), who have a relatively high poverty rate. The take-up model demonstrates that the dominant influence on take-up behaviour is the size of the entitlement – people are more likely to claim large amounts than small ones – but it also identifies other important influences.

(2) We develop a method of taking take-up behaviour into account when simulating the impact of a benefit reform, together with a method of constructing confidence intervals to indicate the statistical reliability of the simulation results.

(3) We show how to quantify in cash-equivalent terms, the barriers to take-up (which might include social stigma, the “hassle” of claiming, the difficulty of finding out about the benefit system, etc.). It is then possible to adjust benefit income by subtracting these implicit claim costs to give a measure of income net of claim costs.

(4) We explore a hypothetical benefit reform that replaces the Housing Benefit and Council Tax Benefit systems with a housing allowance addition to Income Support. This new allowance would depend on regional average rents but not on the rent a claimant actually pays. Thus, unlike the present system, there would be no incentive for claimants to expand their housing expenditure at public expense. Using the simulation methods we have developed, we show that take-up behaviour makes a significant difference to the measured impact of the reform on poverty rates and thus to the policy conclusions that would be reached.