

Accumulated labour market disadvantage and limiting long-term illness: data from the 1971–1991 Office for National Statistics' Longitudinal Study

Mel Bartley and Ian Plewis

Background	Both social class and unemployment have been shown in many studies to be related to ill health. Recent work in social epidemiology has demonstrated the importance of examining the accumulation of disadvantage over the life course. This paper therefore uses a large longitudinal data set to examine the accumulation of both disadvantaged class and unemployment over a 20-year period in a representative sample of the male working population of England and Wales.
Methods	Logistic regression.
Results	Both membership of semi- or unskilled social class and unemployment in 1971 were related to limiting long-term illness (LLTI) in 1991 independently of each other, and of subsequent social class and unemployment. Any occurrence of disadvantaged social class or of unemployment added significantly to the risk of LLTI. A labour market disadvantage score comprising the number of occasions on which a study member had been either in a disadvantaged social class or unemployed showed a clear and graded relationship to illness, with odds of 4 to 1 in the worst-scoring group.
Conclusion	The experiences of disadvantaged social class or unemployment at any time during this period contributed independently to an increased risk of chronic limiting illness up to 20 years later in the life course. Whereas improvements in social conditions at any one time will lessen the long-term combined impact of accumulated labour market disadvantage on health, it may not prove easy to obtain short term improvements in health inequality.
Keywords	Adult, health status, longitudinal studies, unemployment, social class, socio-economic factors, England
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Relationships have frequently been demonstrated between health and both social class and unemployment in cross-sectional studies.^{1–3} However, doubts have always remained as to the value of such cross-sectional data. Because individuals may be more likely to be found in a disadvantaged social position because of their health difficulties,^{4–8} a longitudinal design is preferred when investigating relationships of social class or unemployment to health.

It is now becoming increasingly accepted that a fruitful approach to understanding the social and economic precursors

of ill-health in adult life is to look for a tendency for advantages and disadvantages to accumulate over the life course of individuals. Longitudinal research has found health in mid and later adult life to be related to an accumulation of social risks, including socioeconomic disadvantage in childhood, adult social class, working conditions and unemployment.^{9–13}

Longitudinal data from the Office for National Statistics' Longitudinal Study (ONS LS) make it possible to extend this work to a representative data set covering the working age male population of England and Wales. We do this by examining the relationship of limiting long-term illness (LLTI) at the time of the 1991 census of England and Wales to labour market experience, that is, occupational social class and economic position, of some 60 000 working age men over a period of 20 years, from

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