Unemployment and ill health: understanding the relationship

Mel Bartley

Abstract

Objective – To review research relevant to understanding the psychological, social, and biological pathways by which unemployment may affect health risk; to consider the importance of four specific mechanisms; and to indicate some directions for future research.

Criteria for inclusion and exclusion of published studies – Studies were chosen to illustrate the development of four major hypotheses regarding the relationship between unemployment and ill health, as well as the present state of knowledge. The review therefore includes some much-cited “classics” drawn from a long time span. Where recent reviews already exist relevant to individual mechanisms, these are referred to. Recent (since 1987) reports were sought by searching the HIDS database. Particular effort was made to locate studies which enabled alternative hypotheses to be evaluated, and to point out where existing evidence is inconsistent or incomplete, indicating the need for further research.

Conclusions – To understand the relationship between unemployment and ill health and mortality, four mechanisms need to be considered: the role of relative poverty; social isolation and loss of self-esteem; health related behaviour (including that associated with membership of certain types of “subculture”); and the effect that a spell of unemployment has on subsequent employment patterns.

(J Epidemiol Community Health 1994;48:333–37)

From 1979–86, UK unemployment rose from just over one to more than three million. This increase peaked in 1986, according to official figures, and by September 1987 had been falling for 12 consecutive months.1 Even after the autumn stock market crash, unemployment continued to fall during 1989 and reached a “low” of 1.6 million in early 1990. In the light of these trends, it is not perhaps too surprising that after the appearance of a comprehensive review of the evidence on the links between unemployment and physical and mental health,2 interest in the topic declined.

Attention has now turned back to the implications of high and rising levels of unemployment for health after three years in which unemployment has once again risen and remains at a high level (in contrast to the rather sharp fall as the 1980s recession bottomed out). Whereas some commentators3 maintain that unemployment could be greatly reduced by improved education and training, in the eyes of many policy makers, full employment, or anything like it, is no longer a desirable goal. High levels of joblessness are the “price worth paying” for low inflation and a “flexible” labour market. If high levels of unemployment are to continue as a feature of the British economy, are present benefit rules and levels appropriate? One factor to be considered when answering this is the relationship between unemployment and ill health.

It is no longer seriously argued that there is no such relationship. Lower levels of psychological well being are found in all studies which compared unemployed people, at all ages and in both sexes.3 More persuasively, recent (since 1987) evidence has shown the importance of physical illness.4 The implications for the social class distribution of the unemployed; that a similar excess mortality risk is experienced by wives of unemployed men; and that at times and in regions of higher unemployment, the risk to health is even greater.5,6 These data from England and Wales have now been supported by data from similar census linked studies in Denmark7 and Finland.8

Some controversy still exists, however, over the extent to which excess morbidity and mortality in the unemployed might be a result of those in poorer health being at higher risk of unemployment as well as further ill health or death.9,10 Mortality data can be used to test this hypothesis. In a cohort study, any group selected for physical illness should exhibit high mortality in the early years of follow up which returns towards the level of the rest of the cohort later on as those who are very ill die and the rest recover.9 In the census linked studies, this pattern is seen in men who are “permanently sick” but not in the unemployed:
mortality in the latter group remains high for as much as 10 years of follow up. This does not entirely rule out the possibility that psychological illness, for example, may increase the individual’s risk of both unemployment and also of health hazards such as various forms of self destructive behaviour. Such a model of the mechanism relating unemployment to mortality could not, however, account for observed excess deaths from lung cancer in unemployed men, or ischaemic heart disease in their wives found in the Longitudinal Study.19

Attention is accordingly now focussed on the mechanisms by which these relationships may be produced. Attempts to clarify the question of mechanism may be divided into four types of explanation: (1) poverty, (2) stress, (3) health related behaviour, and (4) the effect of unemployment on the rest of the work career. As mentioned above, selection cannot be ruled out as a partial explanation, but few would argue that this is the dominating factor. An element of selection can be acknowledged to combine with other mechanisms.

Poverty

Some of the most recent research into the relationship between unemployment and ill health has argued for putting poverty back into the centre of the inquiry.16 Many studies link the health effects of unemployment directly to financial problems. Jackson and Warr report that the proportional change in family income between employment and unemployment predicted subjects’ scores on the General Health Questionnaire (GHQ), a widely used measure of psychological health.17 In studies by White et al, long term unemployed people who had had to borrow money in the past year had a risk of depression, as measured by the GHQ score (4-5), which was more than double that of those who did not have to borrow (2-0). These researchers also found that those obliged to borrow were also more likely to report a deterioration in physical health.3 Others have documented the ways in which increasing financial pressures, as savings are used up and worn out items need to be replaced, are responsible for the growing inactivity and social isolation of many unemployed people.18,19 In the OPCS/Department of Social Security (DSS) survey of living standards in unemployment, GHQ scores were related to a ratio of savings to debt.20 In the MRC’s 1946 Cohort Study, after financial hardship was controlled for, the relationships between unemployment and psychological symptoms in both men and women were weakened or disappeared.21

These British findings are echoed in other countries. Kessler et al found that financial strain was the strongest mediating factor between unemployment and reported ill health in their American study, and was far more important than reduced social integration or an increased number of life events.22 A Dutch study found similarly that present or anticipated financial problems were the mediating factors between unemployed status and reported health problems in both men and women;23 the other important factor was loneliness.24 In a study in Malmo, Sweden, the relationship between threatened redundancy and psychological and physiological health measures seemed to vary according to the degree of future financial uncertainty. Male shipyard workers aged over 58 who were threatened with redundancy but knew they would be offered relatively generous early retirement settlements experienced no deterioration in psychological health and a rise of only 0.09 mmol/l in total cholesterol. In younger men with no such reassuring prospects, however, the cholesterol concentration rose by 0.28 mmol/l. By contrast, in the controls who were not involved in the shipyard closure, the rise in men over 58 years was greater than that in younger men.25

Eventually, it seems, many of the unemployed adapt to straitened financial and social circumstances. Several studies agree that there does not appear to be further deterioration in their psychological well being after a period of between one year and 18 months.26-28 However, it is likely that there is a cost associated with this adaptation in terms of lowered expectations of oneself, and perhaps a degree of alienation and cynicism. In Warr and Jackson’s study, GHQ scores did not deteriorate between 18 and 27 months of continuous unemployment, although they remained at a level far above those of comparable employed samples.29 The authors compare the adaptive process to that found in institutionalised inmates of prisons or hospitals.

It is important to understand the political and economic importance of the level of unemployment benefit when addressing questions about the effect of living standards during unemployment on health and how this might be alleviated. According to some opinion within present economic orthodoxy, the level of benefit should be sufficient to maintain physical subsistence, without being a disincentive to the search for work.30 In order for this to happen, the value of unemployment benefit must be below that of the lowest wage rate that employers are willing to pay. If the level of pay at which an unemployed person will accept new work—the “reservation wage”—is too high, employers will not take them on. If benefit levels are too high, the state is therefore contributing to the problem. According to these “supply side arguments”, a high level of benefits causes a high rate of unemployment.31,32 Accordingly, benefits were cut in a number of ways from the early 1980s. These measures were indeed followed by a decrease in the real value of the lowest wages, and a general redistribution of income away from the poorest, so that between 1979 and 1991, while the average household experienced an increase in real income of 36%, that of the poorest tenth fell by 14% after housing costs.33

Unemployment as a stressful life event

If the threat of unemployment is to act as a disincentive to wage militancy and accomplish various other objectives relating to “labour discipline”, then it has to be regarded as an unwele
come experience. It is not surprising therefore that research shows job-loss to be highly stressful, characterised as a form of bereavement. In modern welfare states, despite the evidence of severe poverty, the threat of starvation and physical privation are no longer thought to accompany the loss of paid work. Many researchers have suggested that the reason unemployment is still a threatening experience is that work has a number of non-financial benefits to the individual. Jahoda first proposed a set of such benefits, which she termed the “latent consequences of employment”. These included giving a time structure to the day, self esteem, and the respect of others. Warr has developed a similar “vitamin theory” of the benefits of work for mental health, which include physical and mental activity, use of skills, decision latitude, interpersonal contact, social status, and “traction”—a reason to go on through the day and from one day to the next.

What is the relative importance of financial versus social-psychological factors in the undoubted deterioration in psychological health experienced by most unemployed people? Much of the evidence comes from Scandinavia where benefits are relatively generous. A study of welfare clients in Stockholm (men with irregular work histories and a variety of problems which required frequent social service assistance) found that among unemployed clients there were some who nevertheless reported higher levels of activity, social contacts, and social status, and these had higher levels of psychological well being as measured by the GHQ. Those who were employed, even in low paid casual jobs, were all more active and integrated (and psychologically healthier) than the unemployed. Among unemployed industrial workers in Finland, those who regained work experienced a considerable improvement in psychological health regardless of their financial circumstances either before or after re-employment. Italian workers laid off from their jobs experienced raised amounts of both psychological and physical illness despite receiving the whole of their normal wage. These studies provide evidence of the non-financial benefits of work for psychological health.

“Stress” is held to affect physical health rather further down the line, as a result perhaps of chronically increased levels of anxiety. However, not all research results fit neatly into a model of disease as caused by stress resulting from the experience of unemployment itself. In fact one of the most consistently replicated findings in this area is that health begins to be affected at the time when people anticipate unemployment but are still at work. It seems that in terms of physical (as opposed to psychological) health, not only is there no further deterioration after the job has actually been lost, but there is little sign of improvement on re-employment. Thus, although there is considerable support for the idea that unemployment affects health in a manner similar to other stressful life events, there is still a need to explore other mechanisms.

Health related behaviour

There is evidence that unemployment is associated with some forms of health damaging behaviour, although disagreement exists as to whether behaviour or job loss comes first. In some studies, unemployed people seem to be heavier smokers and drinkers, though others disagree. There is no evidence that this difference is caused by people taking up or increasing their consumption during periods of unemployment; if anything, the amount consumed declines, presumably as a result of financial pressures. However, people seem to find it harder to give up smoking altogether if unemployed, despite the fact that unemployed men have been found to be just as well informed as the employed about the dangers of smoking and equally likely to feel they should give up. Middle aged men in the Regional Heart Study who later lost employment were more likely to have heavy drinking, but were likely then to reduce the amount they drank while not employed. But heavy drinking in young men in the 1958 cohort was more prevalent among those unemployed for over six months. In the Scottish Heart Health Study both heavy drinking and abstention were more common in unemployed men than in the employed. These findings are consistent with both the decay of normal social activity (often involving light or moderate alcohol consumption) that commonly accompanies unemployment, and with the hypothesis that heavy drinking and tobacco may be used as a way of dealing with stress.

By its nature, the relationship between unemployment and illegal drug taking is difficult to investigate. Young unemployed people in Lothian region had more experience of drugs, reflecting national trends. A study of young people in Norway produced similar findings but concluded that drugs were not being used to combat stress; rather drug use was part of the adoption of an alternative cultural identity.

More directly self destructive behaviour among unemployed men has been widely investigated. In the OPCS Longitudinal Study, men unemployed at the 1971 census had a standardised mortality ratio for suicide of 236: this excess risk was greatest in those aged 36 to 44. More recently, the possible link between unemployment and national trends in suicide among younger men have given cause for concern. However, male suicide continued to rise as unemployment fell in the late 1980s. Parasuicide (“attempted suicide”) is also higher in unemployed men. There seems to be agreement that it is not unemployment per se which precipitates suicidal behaviour. Rather, as Kessler et al have also found in their American studies, unemployment increases the likelihood of other adverse life events and lessens the psychological and social resources needed to cope with these. Longitudinal research in England and Wales also shows that a spell of unemployment may have “knock on effects” such as loss of home and relationship breakdown.
in the Scandinavian countries, where benefits are more generous than in the UK. This strengthens the likelihood that the relationship between unemployment and physical health may be partly attributable to the effects of relative disadvantage in those at high risk of job loss as opposed to poverty in any absolute sense. In all countries, low pay and exposure to hazards are associated with job insecurity, and perhaps with the adoption of lifestyles in which a higher degree of risk is accepted. When the unemployed are compared not with all employed but with people in the sorts of occupations where the risk of unemployment is high, far less difference is found in measures of either physical or psychological health.

Research can therefore build upon the foundations laid in the 1980s. More work is needed to examine patterns of employment and unemployment over time: such work has begun using the 1958 British birth cohort.82 In short, while effects were already found through the recession of the 1980s when aged between 23 and 33,81 we also need to know more about the ways in which people adopt different social networks during long term unemployment and the effect this may have on health behaviours. "Counter cultures" are not always "unhealthy", in some cases quite the reverse.83 Studies are also needed which compare the experience of unemployment in countries with higher and lower levels of benefit and retraining, paying special attention to self esteem and social support. Future research will no doubt continue to improve our ability both to understand the relationship between unemployment and health, and to contribute to the design of policy.

I thank Professor Adrian Sinfield and Professor Mike Wadsworth for comments on an earlier draft of this paper.

References


Unemployment in the work history

There is evidence to suggest that in order fully to understand the links between unemployment, ill health, and mortality it is necessary to look beyond the experience of unemployment itself. A spell of unemployment is not usually a mere interlude, however unpleasant, which has no effect once it is over.69 On the contrary, we now know that losing a job can precipitate a self perpetuating series of negative events well into the future, even after work has been regained.70-72 The risk of unemployment is not randomly distributed.73 On the contrary, a relatively small proportion of the economically active population experience the majority of time unemployed.74 Furthermore, once a person has become unemployed for the first time, their risk of further unemployment is greatly increased.75

It may be argued that the association of unemployment with raised mortality over the longer term is in part a consequence of the more general labour market experience of those at high risk of job loss. Recent British and American studies indicate that not all jobs, regardless of quality, can protect physical or mental health. In contrast to the Scandinavian studies quoted above, studies of school leavers in Australia show that unsatisfactory jobs can be as depressing as unemployment.76-77 In the British Social Change and Economic Life Initiative, those with insecure work who had been obliged to take lower status jobs in the recent past had a score on the GHQ that was not significantly different from the unemployed.78 Insecure jobs also tend to be ones which involve high exposure to work hazards of various kinds.79

Conclusion

Research has considerably advanced our understanding of the ways in which health may be related to unemployment. The impact on psychological health seems to be at least partly mediated through poverty and financial anxiety, although Scandinavian and Italian data suggest that stigma and social isolation also play an independent role. Financial problems will act partly by increasing the frequency of stressful life events associated with debt, and possibly by the effect on diet and the quality of the home environment. For many of the unemployed, social activity and participation—and therefore social support—fall dramatically. Research does not show conclusively whether this is because of psychological changes or financial hardship, but whichever is the case, the result is an unfortunate synergism of increased frequency of life events and reduced support. New social networks may eventually be formed or discovered by the unemployed individual, preventing further psychological deterioration; however, in some cases these networks may involve groups who have withdrawn from the norms and values of the mainstream of society.

Unemployment may affect physical health via a "stress" pathway involving physiological changes such as a raised cholesterol concentration and lowered immunity. The increase in mortality risk over the longer term is also found


