

# Youth unemployment and mental health: some Dutch findings

WILMAR B. SCHAUFELI

Two hypotheses were investigated (1) the causation hypothesis that assumes that unemployment leads to poor mental health and (2) the selection hypothesis that assumes that poor mental health reduces the likelihood of finding a job. A prospective longitudinal design was used in order to study two Dutch samples 635 college graduates and 767 school-leavers. The causation hypothesis was confirmed for school-leavers but not for college graduates. In addition, as expected, employment and further education increased levels of mental health among school-leavers. The selection hypothesis, that unfortunately could only be studied in the graduate sample, was not confirmed as far as mental health was concerned. However, it appeared that future employment among graduates was predicted by a positive attitude and an active way of dealing with unemployment. Results are interpreted with reference to the favourable Dutch structural and cultural context that existed at the time the research was conducted. In addition, the role of proactivity is discussed.

# Introduction

Viewed from an international perspective, youth unemployment in The Netherlands represents an interesting case since high unemployment rates are combined with a fairly favourable social context. As in most industrial countries, youth unemployment rates are relatively high in The Netherlands In the mid-eighties, when we started our research, youth unemployment was very high: 28% of the Dutch aged under 24 were without jobs. At that time, The Netherlands, together with Spain and Ireland, was among the three countries that had the highest unemployment rates among the 24 OECD countries (OECD, 1991). On the other hand, Dutch unemployment benefits were relatively generous, at least at the time when we conducted our research According to the OECD (1989), in the mideighties, Dutch unemployment benefits, after Canada, were second highest within the OECD. Generally, Dutch unemployment received 70% of their last earned income for the first  $2\frac{1}{2}$  years of unemployment and, unlike most other countries, Dutch unemployment school-leavers received social assistance that roughly equalled the net minimum wage until they found a paid job (approximately US\$960 per month for couples and US\$670 for singles) However, starting in the late eighties when we concluded our research, the government has cut-back severely on social security, particularly for young people Unemployment benefits and entitlement periods for recipients have been reduced and criteria for entitlement to benefits have been tightened up

Traditionally, in psychological unemployment research the negative effects of

Reprint requests and correspondence should be addressed to W B Schaufeli, Department of Psychology, Utrecht University, P O Box 80 140, NL-3508 TC Utrecht, The Netherlands

0140-1971/97/030281+12/\$25 00/0/ad970085© 1997 The Association for Professionals in Services for Adolescents

W B Schaufeli

Youth unemployment and mental health

unemployment are confounded by poverty (Fryer, 1992). However, thanks to the historically speaking rather unique combination of high levels of unemployment and relatively generous financial arrangements, such contamination is not likely to occur in our study. Put in another way, the current study might provide indirect evidence whether or not potentially detrimental psychological effects of unemployment can be buffeted, for instance, by favourable financial arrangements.

#### Unemployment and mental health

Unemployment research over the past decades has shown quite convincingly that unemployment leads to psychological distress and that re-employment improves mental health (for recent reviews see Feather, 1990; Ezzy, 1993; Winefield, 1995). In other words, there seems to be a causal relationship between unemployment and poor mental health; the so-called causation hypothesis. However, two critical notes have to be made. First, the strength of the relationship between unemployment and psychological distress is rather weak. Roughly speaking only 10 to 15% of the variance in distress is explained by employment status (Fryer and Payne, 1986) Second, the fact that unemployment causes psychological distress does not rule out the possibility that high levels of distress might lead to prolonged unemployment. For instance, in a large Australian sample of intended school-leavers Winefield and Tiggemann (1985) found that depressed mood and poor self-esteem were antecedents as well as effects of unemployment. Hence, poor mental health might cause failure in the labour market. This is also known as reversed causation or the selection hypothesis.

The current study addresses two major issues. First, the negative impact of unemployment on mental health is studied (causation hypothesis). And second, the factors that determine success and failure in the labour market are investigated (selection hypothesis). The unemployed's level of mental health might be one of the selective factors.

## Unemployment, mental health and level of education

Most unemployment research has used very specific samples that are predominantly White, martied, male, and blue collar. As far as youth unemployed is concerned, research particularly concentrates on the lower qualified school-leavers (Patton and Noller, 1984; Wair et al., 1988). Therefore, in addition to school-leavers who left secondary school or a vocational training centre, we included a higher educated group of college graduates as well.

There has been quite a lot of speculation about the impact of unemployment upon the well educated. Basically these speculations can be summarized in two alternative hypotheses According to the first hypothesis, the well educated are particularly vulnerable to unemployment stress mainly because they experience considerable status inconsistency ("The higher the climb, the harder the fall"). According to the alternative hypothesis, the better educated can cope rather well with unemployment, since they can draw upon considerable education and other coping resources. For instance, Feather and Bond (1983, p. 251) concluded "The successful graduate has presumably developed some skills in structuring time and in developing a sense of purpose and autonomy". In a similar vein, Warr (1984) considered well educated unemployed as extraordinarily "good copers" (p. 278). To date, neither hypothesis is supported convincingly by empirical research.

In contrast, expectations about the consequences of unemployment for low qualified and poorly educated school-leavers are more clear. By definition, they leave school at a younger

age of about 16 or 17 years, during their adolescence. This developmental phase is accompanied by many psychological and social stresses that make the youngsters more vulnerable to negative consequences of unemployment. Indeed, a number of British (Warr et al., 1988) as well as Australian studies (Winefield et al., 1993) found modest negative effects of unemployment on mental health indicators in this group. On the other hand, getting a job is crucial part of the identity formation of school-leavers (Erikson, 1968, pp. 32–68). It is therefore not surprising that many empirical studies show that employment has a beneficial effect, specifically upon the mental health of poorly educated school-leavers (e.g. Winefield et al., 1993). This positive effect of employment is sometimes even stronger than the negative effect of unemployment on mental health (Gurney, 1980; Donovan et al., 1986). That getting a job not necessarily leads to an improvement of mental health was shown by Feather and O'Brien (1986) in a number of studies among Australian school-leavers They conclude that low qualified jobs and bad working conditions can counteract the potentially beneficial effects of employment, particularly among the less qualified school-leavers.

Nevertheless, we expect in the less educated group that, by and large, employment improves mental health, whereas unemployment leads to poor mental health. The latter finding would support the causation hypothesis.

### Success and failure in the labour market

Based on a review of the literature (e.g. Wart, 1987, Feather, 1990; Ezzy, 1993; Winefield et al., 1993; Winefield, 1995) several types of factors can be identified as potential predictors of success and failure in the labour market of college graduates. In addition to unemployed's level of mental health, the following seven types of variables were included in our study (1) demographic characteristics (gender, marital status, type of education, working in an unpaid job); (2) financial strain; (3) personality characteristics (self-esteem, locus of control); (4) causal attribution of unemployment; (5) problem-focused way of coping with unemployment; (6) social support; and (7) attitudes towards work and nonwork (instrumental work orientation, non-work orientation, perceived control, employment commitment and estimated success in the labour market).

Based on earlier studies (e.g. Winefield and Tiggemann, 1985; Iverson and Sabroe, 1988) it was expected that in accordance with the selection hypothesis initial levels of mental health, measured at the time when the respondents were still at school, significantly predict future employment status.

#### Method

#### Procedure

Table 1 summarizes the main features of two longitudinal studies that were carried out Both samples completed a questionnaire shortly before their final exam. The somewhat low initial response rates are likely to have been caused by the fact that the students were quite busy preparing themselves for their final exam.

In the first study, four follow-ups were conducted with regular intervals of 6 months. The

college graduates<sup>1</sup> were followed over a 2-year period, from 1984 to 1986. The school-leaver study included youngsters who, for the past 4 years, either followed vocational training or had been enrolled in a secondary school. The school-leavers were followed over a 1-year period from 1988 to 1989. As can be seen from Table 1, the school-leavers were on average about 6 years younger than the college graduates. Unfortunately and unexpectedly the percentage of unemployed school-leavers at the 1-year follow-up was very low: 3% (n=14). The main reason is that almost 80% of the school-leavers continued their education. About one-quarter of this group reported that their decision to continue their education was due to fear of not being able to find a job. In other words, they postponed their entrance in the labour market because of poor employment prospects. Due to this small number of unemployed it was not possible to study the determinants of future employment in the school-leaver sample.

#### Measures

Except for the biographical characteristics (i.e. gender, marital status, type of education, working in an unpaid job) and the estimated success in the labour market (scored on a rating scale ranging from 0% to 100%), all other variables (i.e. financial strain, self-esteem, locus of control, causal attribution of unemployment, problem-focused way of coping with

Table 1 Some characteristics of both studies

	Study 1. College graduates (n=635)	Study 2: School-leavers (n=767)	
Gender			
Male	63%	49%	
Female	37%	51%	
Mean age	22 8	16 2	
Number of follow-ups	4	1	
Response rate			
Initially	42%	59%	
After 1 year	80%	68%	
After 2 years	65%	_	
Unemployed at			
6 months	36%	_	
12 months	18%	3%	
18 months	13%	_	
24 months	12%	-	

<sup>1</sup>The Dutch system of higher education differs considerably from that in other countries. In The Netherlands, two types of higher educational institutions are distinguished, universities and technical colleges (i.e. schools for Higher Professional Education). The difference between these institutions is historical rather than systematic. At the universities students are in principle prepared for theoretical work in the pure sciences and arts, whereas in technical colleges they are trained in the applied arts and sciences, (e.g. engineering, administration, health, education, welfare and agriculture). Rather inconsistently, the training of some other professionals such as physicians, dentists, lawyers and psychologists, takes place at the universities. Both educational institutions offer a 4-year programme, after which the students obtain a degree or diploma. After their graduation from a technical college students may continue their education on a more theoretical level at the university for another 4 years. Basically, all graduates are admissible to PhD programmes. However, only university graduates actually avail themselves of this opportunity. In The Netherlands approximately 200,000 students are enrolled in technical colleges and 150,000 in universities.

unemployment, social support, instrumental work orientation, non-work orientation, perceived control, employment commitment) were measured with multi-term questionnaires. These questionnaires satisfy the appropriate psychometrical standards. For example, internal consistency coefficients ranged from 0.70 to 0.94. More detailed information about the measures is provided elsewhere (Schaufeli and Van Yperen, 1992, 1993)

The level of mental health or psychological distress was measured in Study 1 with the Dutch version of the Symptom Checklist-90 (SCL-90; Arrindell and Ettema, 1986). Although the SCL-90 is a multidimensional indicator of mental health, Gotlib (1984) found that among university students the SCL-90 essentially assesses one construct psychological distress. Therefore, in the present study only the SCL-90 total score was used No significant initial differences in levels of mental health were observed between the college graduates and the group norms from the test-manual based on 1026 subjects randomly sampled from the Dutch population aged over 18 years (Arrindell and Ettema, 1986). In Study 2, the Dutch 12-item version of the General Health Questionnaire (GHQ-12) was used (Koeter and Ormel, 1991). The GHQ-12 has been validated for use among employed and unemployed school-leavers in Britain (Banks et al., 1980). Unfortunately, no adequate Dutch GHQ-12 group norms exist for comparison of levels of mental health in Study 2.

## Results

#### Unemployment and mental health

The analysis of the course of psychological distress among college graduates was rather complicated since four follow-ups were conducted. The dynamic equilibrium model that was employed to estimate the strength of the relationship between employment status and mental health was tested by carrying out a longitudinal LISREL-analysis. The mathematical details of this procedure have been described elsewhere (Ormel and Schaufelt, 1991). The model was developed in several steps in one half of the sample and was then cross-validated in the other half in order to avoid statistical artifacts, such as chance capitalization.

In Figure 1, the observed level of mental health  $(O_0 \text{ to } O_4)$  is divided into two independent components or latent variables a stable component (S) and a change component  $(C_0 \text{ to } C_4)$ . The former is by definition stable across time and can be considered as a "trair", whereas the latter reflects the actual "state" level of mental health. Accordingly, the dynamic equilibrium model is able to disentangle the trait and the state component of mental health. The changing "state" component is supposed to be influenced by the individual's current employment status  $(E_1 \text{ to } E_4)$ . At Time O, all students were still at school. The numbers in Figure 1 represent proportions of explained variance

It appears from the analyses that are described elsewhere in greater detail by Schaufeli and Van Yperen (1992) that the observed level of mental health was mainly influenced by the stable component. That is, 65% of the variance was explained by this stable factor, against only 35% by the change component. In other words, some individuals happen to be more vulnerable to psychological distress than others, irrespective of their actual employment situation. But what is even more important, only a minor and insignificant proportion of 1% of the variance in psychological symptoms was explained by the

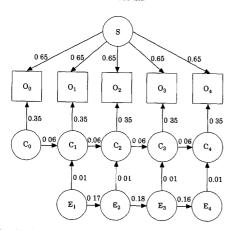


Figure 1. Mental health and employment status of college graduates

individual's actual employment status. This is much less than the 10 to 15% which is

usually found in other studies according to Fryer and Payne (1986).

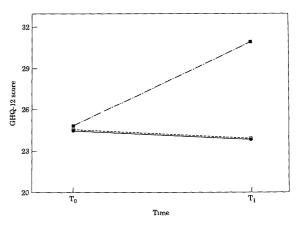
Analysis of the longitudinal data from the school-leaver sample was more straightforward. Three groups were created according to the actual situation at the followup 1 year after leaving school: employed (n=99), unemployed (n=14), and students who continued their education (n=392).

At Time 0 when all intended school-leavers were still at school, no significant difference was observed in levels of mental health between the three groups (see Figure 2). However, a MANOVA with repeated measures revealed a significant group (employed, unemployed, students)  $\times$  time (T<sub>0</sub>, T<sub>1</sub>) interaction effect (F<sub>(1,50)</sub>=4-50; p<0.001) indicating that unemployment led to a deterioration in mental health ( $t_{(13)}$ =2.76; p<0.05), whereas employment or continuing education improved mental health ( $t_{(94)}$ =3·12, p<0·01 and  $t_{(387)}$ = 2-62, p<0.01, respectively). Accordingly, as expected, unemployment had a negative effect and employment had a positive effect on the level of mental health of school-leavers. Moreover, continuing one's education improved mental health to a similar degree as employment: both lines at the bottom of Figure 2 overlap.

In short, the impact of unemployment on mental health differed depending on the level of education. Unlike the less well educated school-leavers, the unemployed college graduates did not suffer from poor mental health. Thus, the causation hypotheses that postulates that unemployment leads to poor mental health was only supported for the school-leavers

## Success and failure in the labour market

As previously noted, the determinants of future employment could only be investigated



**Figure 2.** Mental health and employment status of school-leavers ( $\blacksquare$ )=unemployed (n=14), ( $\square$ )= employed (n=99), ( $\blacksquare$ )=students (n=392)

among college graduates. Table 2 shows the factors that significantly contributed to the prediction of future success in the labour market. In total 15 variables (i.e. gender, marital status, working in an unpaid job, estimated success in the labour market, financial strain, self-esteem, locus of control, causal attribution of unemployment, problem-focused way of coping with unemployment, social support, instrumental work orientation, non-work orientation, perceived control, employment commitment, and mental health), and six dummies for type of education were included in the regression analyses

Two regression analyses were carried out. Employment after 6 months (T<sub>1</sub>) was predicted by variables measured at To when all graduates were still at college Furthermore, employment after 1 year (T2) was predicted by variables measured at T1, 6 months

Table 2 Predictors of future (un)employment of college graduates

	Time 2 (n=379)		Time 3 (n=162)	
	β	R <sup>2</sup>	β	R <sup>2</sup>
Engineering	0 23*	0 03	-0.10	0 00
Administration	013*	0 02	0.08	0.00
Unpaid work	_	_	0 24**	0 06
Problem-focused coping	0.20**	0 03	0 34***	0 12
Estimated success	0.23***	0.12	0 10	0 00
Total R <sup>2</sup>		0.20		0 18

<sup>\*</sup>p<0.05, \*\*p<0.01, \*\*\*p<0.001

previously As can be seen from Table 2, only a few variables contributed in predicting future employment. Graduates with a background in engineering or in administration were most likely to find a job within 6 months. Working in an unpaid job at T<sub>1</sub> seemed to pay off because it increased the likelihood of employment within the next 6 months. Most interestingly, problem-focused coping predicted future employment on both occasions. The scale measuring problem-focused coping includes items that reflect active job hunting (e.g. visiting companies or phoning for a job, talking to other people in order to get relevant information). Finally, students who initially estimated their success in the labour market as quite high were likely to find a job within the first 6 months after graduation. Interestingly, neither the graduates' level of mental health, nor financial strain, nor personality characteristics seemed to play a tole in finding a job.

In short, in addition to educational background and working in an unpaid job, subjective factors seemed to play a decisive role. This suggests that self-selection takes place in the labour market: confidence and an appropriate active and problem-focused way of coping increase the chance of success. However, the selection hypothesis was, unexpectedly, not supported as far as mental health was concerned the graduates' mental health did not play a significant role in getting a job.

# Conclusion and discussion

Three important conclusions can be drawn from our two studies. First, the level of mental health of college graduates is not affected by their employment status. Only a negligible, non-significant proportion of variance in mental health (i.e. 1%) is explained by the graduates' employment status. Rather than experiencing status inconsistency, they seem to cope pretty well with unemployment. Second, in accordance with the causation hypothesis, unemployment has a negative impact on the level of mental health in school-leavers. Moreover, getting a job or continuing education increases their level of mental health. Third, future employment is predicted by factors that reflect a positive attitude (i.e. confidence) and an active way of dealing with unemployment (i.e. active job hunting and working in an unpaid job). Initial levels of mental health were not predictive of future success in the labour market. Thus, the selection hypothesis was not supported as far as poor mental health is concerned.

#### The national context

Recently, Winefield and Fryer (1996) have stressed the importance of taking into consideration the historical and societal setting when research findings on unemployment and mental health are interpreted. Therefore, attention is paid to three aspects that are supposed to be typical for The Netherlands at the time when the research was carried out. It seems that these structural and cultural aspects operate differently on the mental health of graduates and school-leavers (Schaufeli, 1992).

First, as noted in the introduction, unemployment benefits were relatively high compared to other countries. This was particularly true for college graduates, most of whom received more financial assistance than during their education. Consequently, particularly for graduates, serious financial problems were not an important reason for finding a job. Unlike the graduates, most unemployed school-leavers still lived with their parents. Although

school-leavers received employment assistance as well, they remained financially dependent upon their parents since their level of assistance was rather low because they did not live on their own. It is likely that this might have created serious tensions within the family leading to psychological distress. Since the Dutch government has recently cut-back on unemployment benefits, the picture might look more gloomy now, also for college graduates.

Second, in The Netherlands unpaid work as a volunteer is institutionalized. For instance, special consent is given in order to avoid a cutting of unemployment benefits and social assistance. As a result, in many work settings such as health care and education, the distinction between paid and unpaid work is blurred. Additional semi-structured interviews that were carried out with a random sample of nearly one hundred graduates who were unemployed at T<sub>1</sub> showed that almost half of them were engaged in some kind of unpaid activity. As we have seen, working in an unpaid job improves one's chances of finding a regular paid job. In contrast, unemployed school-leavers have far fewer opportunities to find satisfying unpaid volunteer work. Amongst other things, this is caused by the fact that they are unable to compete with the better educated and hence tend to be offered the least attractive unpaid work, or no unpaid work at all (Pahl, 1992). This process is similar to that taking place in the paid labour market.

Third, duting the past decades a cultural change has been taking place in The Netherlands towards what has been called a normalization of unemployment. It has been empirically demonstrated that public acceptance of unemployment increased, particularly in the first half of the eighties, when unemployment rates increased drastically (Maassen and de Goede, 1987). However, this normalization of unemployment is specifically observed among the better educated and not so much among the less educated. There is some indication that overall stigmatization of the unemployed is less common in The Netherlands than in other countries. Nevertheless, the usual social class gradient is observed as well.

In short, the results of our study suggest that among college graduates the potentially detrimental psychological effects of unemployment were buffered by the favourable financial, social and cultural context that existed until recently in The Netherlands However, despite this relatively favourable context, unemployed school-leavers were worse off psychologically than college graduates.

#### The social and psychological context

In addition to the three societal factors mentioned above there were important sociocultural differences between the two educational groups which might be responsible for the different effects of unemployment on mental health. For instance, it can be argued that graduates occupy a socially and culturally privileged position. They have adequated information available about alternatives to paid work, like training programmes or unpaid activities; they have learned to spend their leisure time in a useful and satisfying way; they generally have broad cultural interests, and so on. In other words they have more coping resources at their disposal that enable them to deal effectively with sitiess (Hobfoll, 1989).

Moreover, it is likely that psychological differences between the two samples play a significant role as well. For instance, school-leavers are younger than college graduates Therefore, it is possible that unemployment interferes with their identity formation (c.f., Gurney, 1980, Maitland-Edwards et al., 1981).

Finally, it seems that unemployed college graduates behave in a proactive manner, instead of being passive victims they are active agents. Most probably this has two positive consequences: their level of mental health is not impaired and by being active in job hunting or by doing unpaid work they increase the likelihood of getting a regular job. The latter agrees with Holmes and Werbel (1992) who found that re-employed individuals were more internal in locus of control, had greater self-efficacy and possessed better problemsolving skills than individuals who remained unemployed.

Our findings seem to support Fryer's (1986) Agency Restriction Theory that postulates that people are fundamentally proactive and that negative consequences of unemployment occur exclusively when the exercise of personal agency is inhibited (c.f., Winefield, 1995). This was obviously not the case in our college graduates sample: they remain proactive when unemployed and thus they did not experience any negative mental health consequences

Unfortunately, success and failure in the labour market, and thus the role of proactivity, could not be studied in the school-leaver sample because of the limited number of unemployed at the 1-year follow-up. However, it can be speculated that school-leavers are less likely to behave proactively than college graduates, not only because they have fewer resources at their disposal, but also because their labour market prospects are worse.

# Concluding remarks

Our results underscore the importance of differentiation in psychological unemployment research. Unemployment not only has different effects in different educational groups; in addition, as suggested by Winefield and Fryer (1996), the specific societal and historical context seems to play a role as well. In The Netherlands at the time the current research was conducted, this was a positive role, at least for the better educated. Their mental health seemed to be less affected by unemployment than that of their fellows from other countries (c.f., Kaufman, 1982; Feather and Bond, 1983).

# References

- Arrindell, W. A. and Ettema, J. H. M. (1986) SCL-90-Handleiding [SCL-90 Test-manual]. Lisse. wets & Zeitlinger
- Swees & Leitinger.

  Banks, M. H., Clegg, C. W., Jackson, P. R., Kemp, N. J., Stafford, E. M. and Wall, T. D. (1980). The use of the General Health Questionnaire as an indicator of mental health in occupational studies Journal of Occupational Psychology, 53, 187–194.

  Donovan, A., Oddy, M., Pardoe, R. and Ades, A. (1986). Employment status and psychological well-being. A longitudinal study of 16 year old school-leavers. Journal of Child Psychology and Psychiatry, 27, 65–76.

  Figure F. H. (1989). The property of the proper

- Erikson, E. H. (1968) Identity, youth and crisis New York. Norton.

  Ezzy, D. (1993) Unemployment and mental health. A critical review. Social Science and Medicine, Ezzy, D

- 37, 41–52

  Feather, N T (1990). The psychological impact of unemployment. New York Springer

  Feather, N T and Bond, M J (1983). Time structure and purposeful activity among employed and unemployed university graduates. Journal of Occupational Psychology, 56, 241–254.

  Feather, N T and O'Brien, G E (1986). A longitudinal study of the effect of employment and unemployment on school-leavers. Journal of Occupational Psychology, 59, 121–144.

  Fryer, D (1986). Employment deprivation and personal agency during unemployment: a critical discuss of Jahoda's explanation of the psychological effects of unemployment. Social Behaviour, 1, 3–23.

- Fryer, D (1992) Poverty stricken? A plea for a greater emphasis on the role of poverty psychological research on unemployment and mental health in the social context. In On mysteries of unemployment. Verhaar, C. H. A. and Jansma, L. G. (Eds.) Dordrecht Kluwer.
- Fryer, D and Payne, R L (1986) Being unemployed A review on the literature on the psychological experience of unemployment. In International Review of Industrial and Organizational Psychology, Cooper, C L, and Robinson, I (Eds) New York: Wiley
- Gotlib, I. H. (1984). Depression and general psychopathology in university students. Journal of Abnormal Psychology, 93, 19-30.
   Gurney, R. M. (1980). The effects of unemployment on the psycho-social development of school-

- Gurney, R. M. (1980). The effects of unemployment on the psycho-social development of school-leavers Journal of Occupational Psychology, 53, 205–213.

  Hobfoil, S. (1989). Conservation of resources. A new attempt at conceptualizing stress. American Psychologist, 44, 513–524.

  Holmes, B. H. and Werbel, J. D. (1992). Finding work following job loss: The role of coping resources. Journal of Employment Counselling, 29, 22–29.

  Iversen, L. and Sabroe, S. (1988). Psychological well-being among unemployed and employed people after a company closedown. A longitudinal study. Journal of Social Issues, 4, 141–152.

  Kaufman, H. G. (1982). Professionals in search of work: Coping with the stress of job loss and undersomblowment. New York: Wiley.
- underemployment. New York: Wiley tter, M. J. W. and Ormel, J. (1991) General health Questionnaire. Nederlandse bewerking Handleiding [General Health Questionnaire: Manual of the Dutch version] Lisse. Swets & Zeitlinger
- zertinger ssen, G. H. and De Goede, M. P. M. (1987). Hoe zien andere mensen werklozen en hoe zien werklozen zichzelf [How do others see the unemployed and how do the unemployed see themselves?]. In Leven mer werklozsheid, Spruit, I. P. and Tazelaar, F. (Eds.) Groningen: Wolters
- Matland-Edwards, J., McMullen, T., Welbers, G. and Woolthuis, T. (1981) Transition from education to working life. Journal of Adolescence, 4, 27–45

  OECD (1989). OECD Economic surveys, The Netherlands 1988/1989 Paris. OECD Department of
- Economics and Statistics.
- OECD (1991) Labour force statistics 1969-1989 Paris OECD Department of Economics and
- Ormel, J and Schaufeli, W B (1991) Stability and change in psychological distress and their

- Ormel, J and Schaufelt, W B (1991) Stability and change in psychological distress and their relationship with self-esteem and locus of control. A dynamic equilibrium model. Journal of Personality and Social Psychology, 60, 288–299.
   Pahl, R. E (1992). Does jobless mean workless? A comparative approach to the survival strategies of unemployded people. In On the mystenes of unemployment, Verhaar, C H A and Jansma, L G. (Eds). Dordrecht: Kluwer
   Patton, W and Noller, P (1984). Unemployment and youth A longitudinal study. Australian Journal of Psychology, 36, 399–413.
   Schaufelt, W B (1992) Unemployment and mental health in well- and poorly-educated school-leavers. In On the mystenes of unemployment, Verhaar, C. H. A and Jansma, L G (Eds) Dordrecht Kluwer. Dordrecht Kluwer
- aufeli, W B. and Van Yperen, N W. (1992) Unemployment and psychological distress among graduates A longitudinal study Journal of Occupational and Organizational Psychology, 65, 291

- 305
  Schaufeli, W. B. and Van Yperen, N. W. (1993) Success and failure in the labour market Journal of Organizational Behaviour, 14, 559-572
  Warr, P. B. (1984) Job loss, unemployment and psychological well-being. In Role transitions Explorations and explanations, Allan, L. V. and van der Vliert, E. (Eds.) New York Plenum Press.
  Warr, P. B. (1987) Work unemployment and mental health Oxford Clarendon Press.
  Warr, P. B., Jackson, P. and Banks, M. (1988) Unemployment and mental health Some British studies. Journal of Social Issues, 44, 47-68
  Winefield, A. H. (1995) Unemployment. Its psychological costs. In International Review of Industrial and Organizational Psychology, Vol. 10, Cooper, C. L. and Robertson, I. T. (Eds.). London. Wiley, pp. 169-212
- pp. 169-212 Winefield, A H and Fryer, D (1996) Some emerging threats to the validity of research on unemployment and mental health Australian Journal of Social Research, 2, 115-128

- Winefield, A H and Tiggemann, M (1985) Psychological correlates of employment and unemployment Effects, predisposing factors and sex differences Journal of Occupational Psychology, 58, 229–242
  Winefield, A H, Tiggemann, M, Winefield, H R and Goldney, R D (1993) Growing up with unemployment A longitudinal study of its psychological impact London Routledge