Retirement Transitions, Gender, and Psychological Well-Being: A Life-Course, Ecological Model

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This longitudinal study investigated the relationship between retirement transitions and subsequent psychological well-being using data on 458 married men and women (aged 50-72 years) who were either still in their primary career jobs, retired, or had just made the transition to retirement over the preceding 2 years. The findings show that the relationship between retirement and psychological well-being must be viewed in a temporal, life-course context. Specifically, making the transition to retirement within the last 2 years is associated with higher levels of morale for men, whereas being "continuously" retired is related to greater depressive symptoms among women. The results suggest the importance of examining various resources and contexts surrounding retirement transitions (gender, prior level of psychological well-being, spouse's circumstance, and changes in personal control, marital quality, subjective health, and income adequacy) to understand the dynamics of the retirement transition and its relationship with psychological well-being.

Although retirement has been considered one of the most important later life status transitions (Srinivasan, 1980), our knowledge of its psychological consequences is fragmentary. For most older persons, retiring from their primary career jobs is a milestone, marking passage into the later stages of adulthood. It is not simply an objective life course transition, but is also a subjective developmental and social-psychological transformation that may be related to physical and psychological well-being (Moen, 2001). On the one hand, the retirement experience may promote a sense of well-being, as workers move out of demanding and/or stressful career jobs. On the other hand, the retirement passage itself may lead to diminished well-being, as individuals lose their occupational attachments, their social network of co-workers, and a major anchor for their identities.

The empirical evidence thus far is inconsistent. Some researchers have identified a significant negative association between retirement and life satisfaction or morale (Ellwell & Maltbie-Cramnell, 1981; Walker, Kimmel, & Price, 1981) and a positive association with psychological distress (Bosell, Aldwin, Levenson, & Ekerdt, 1987; Bosell, Aldwin, Levenson, & Workman-Daniels, 1990). Other researchers have found no relationship between psychological efficacy associated with retirement, reporting mixed findings or no relationship between retirement and life satisfaction (Gall, Evans, & Howant, 1997; Lee, 1978; Palmore, Filenbaum, & George, 1984; Stull, 1988) or physical health (Palmore et al., 1984), no relationship between retirement and psychological distress (Ross & Drentea, 1998; Wright, 1990), and even a positive effect of retirement on health or reduced stress levels (e.g., Ekerdt, Bosell, & LoCastro, 1983; Kasl, 1980; Midanik, Seghiltian, Ransom, & Tekwa, 1995). Earlier studies suffer from two general weaknesses. First, many focused almost exclusively on men's retirement, with little investigation of women's experiences or the fact that couples are increasingly undergoing two retirements: his and hers. Recent demographic trends—including increases in women's workforce participation, along with increased longevity and decreased retirement age—point to the importance of considering retirement as a "couple phenomenon" (see Henretta, O'Read, & Chun, 1993; Srinivasan, Ekerdt, & Vinick, 1992). Many spouses do not retire simultaneously, resulting in variances of employment and retirement within couples (e.g., both spouses are retired, both spouses are still in their career jobs, one is still in primary career job while the other is retired). This points to the importance of incorporating the diversity of both spouses' circumstances into models of retirement and psychological well-being.

Second, most prior studies of retirement have been cross-sectional in nature. But differences in psychological well-being by retirement status at one point in time may or may not reflect changes in psychological well-being as individuals move from employment to retirement over their life course. Dynamic, longitudinal analyses are essential to assess whether snapshot distinctions between groups (of retirees and non-retirees) capture any effects of the actual retirement transition. In this article, we draw on longitudinal data of mid-life workers and retirees (and their spouses) to examine the nature of the relationship between couples' work or retirement status and psychological well-being.

Theoretical Background

We draw on several theoretical perspectives in developing a model linking retirement and psychological well-being.

Role theory—Role theory (e.g., George, 1993), in conjunction with a life-course perspective (e.g., Elder, 1995; Moen, 2001), provides one of the most commonly used explanations of adjustment to retirement. But, in point of fact, role theory lends itself to several life-course-related formulations. From the role enhancement perspective, men and women who retire from their career jobs are vulnerable to feelings of role loss, which can lead to psychological dis...
tress. This vintage point postulates that employment is central to one's identity, loss of this critically important work role, and/or the environmental loss accompanying retirement, produces concomitant decline in morale and an increase in depressive symptoms. Alternatively, retirement from the sides of one's primary career job may be a major life-course-role exit that serves or reduce role strain and overload, thereby enhancing psychological well-being. This role-strain reduction theoretical perspective also points to the importance of role quality (e.g., Vandewater, Ostroff, & Stewart, 1997), suggesting that circumstances around employment, retirement, and the transition from one to the other should matter.

**Continuity theory.**—Continuity theory (e.g., Atchley, 1989; Richardson & Kilty, 1991) proposes that people tend to maintain earlier lifestyle patterns, self-esteem, and values, even as they exit their primary career jobs. Therefore, retirement need not lead to maladjustment and distress. Consistent with this perspective, one early panel study by George and Maddox (1977) found remarkable stability in life satisfaction among 57 older men over a 3-year period. The sample, however, consisted both those who were continuously retired and those who retired between Time 1 and Time 2. Consequently, the results may not precisely reflect the impact of actual retirement transitions on life-satisfaction changes.

**A Life-Course, Ecological Model**

We propose that the link between retirement and psychological well-being can best be understood through the lens of a life-course, ecological perspective (Kim & Moen, 2001a, 2001b). The life-course approach (Elder, 1995) highlights the dynamic processes of development and change over the life span. The ecology of human development (Bronfenbrenner, 1989) and role context (e.g., Moen, 2001; Maslow, Herzog, & House, 1999) perspectives suggest locating transitions in the social contexts of other roles, relations, and developmental processes. In viewing retirement as a life-course, ecological transition, we focus on process, the interdependence of linked lives, and context.

**Process.**—Process connotes both the dynamics of moving into retirement and possible mechanisms through which retirement status might affect psychological well-being. We developed a life-course model of the retirement transition, examining Time 2 psychological well-being, controlling for the same measure 2 years earlier, and considering three groups: the stably employed in their primary career jobs, the stably retired, and those who moved from their career jobs to retirement between two waves of the survey. Process also suggests that particular mechanisms may facilitate the psychological well-being of those either in or moving into retirement. Research evidence points to three possible mechanisms linking retirement status and psychological well-being: (a) economic resources, (b) personal resources, and (c) social-relational resources. Prior studies have found that inadequate incomes and financial problems predict dissatisfaction and maladjustment in retirement (Atchley, 1976b; Gallo, Bradley, Siegel, & Karl, 2003; Hendrick, Wells, & Falletti, 1982; Richardson & Kilty, 1991).

Perceptions of having an adequate income are also related to retirement adjustment (Kim & Moen, 1990). Personal resources include not only sociodemographic status but also health and personality variables. A substantial body of research has shown that health is positively correlated to retirement adjustment (e.g., Shaw, Patterson, Simple, & Gratt, 1998). Personality characteristics also play a crucial role in retirement adaptation (e.g., Robbins, Lee, & Warr, 1994). The most important individual difference mediating or moderating the retirement—well-being linkage may well be a sense of personal control. As people move through late midlife they may experience a decline in personal control, given that the environmental events accompanying aging limit the range of outcomes that are actually attainable (Rodin, 1990; Weisz, 1983). The relationship between retirement and a sense of personal control, however, is not at all clear. Some scholars argue that retirement may offer more time and opportunities for realizing one's goals and carrying out plans, thus increasing personal efficacy (e.g., Lachman, 1986).

Evidence from a range of studies suggests that a sense of personal control has significant influence on retirement adjustment (Fretz, Kluge, Osuina, Jones, & Merikangas, 1989; Hendrick et al., 1982; Mutran, Retieres, & Fernandez, 1997; Taylor-Carter & Cook, 1995). For example, in a study of the relationships between self-efficacy and anxiety and depressions about retirement, a low sense of self-efficacy was one of the best predictors of preretirement worry, in addition to concerns about money or health (Fretz et al., 1989). In their survey of individuals ages 50 to 70, Herzog, House, and Morgan (1991) found that those who stopped work and felt they had little or no choice reported lower levels of health and psychological well-being compared with those who voluntarily retired and those working the amount they would like. The third set of resources is social-relational, which we discuss in the next section.

**Linked lives.**—A key tenet of a life-course, ecological perspective is that lives are interdependent. Developmental processes always take place in the context of ongoing social relations, including developmental shifts that occur with retirement. Individuals frequently decide to retire on the basis of changes in others' health and/or retirement exits or plans. Furthermore, the retirement experience is played out in a network of shifting social relations. It is crucial to consider the work or retirement statuses of both spouses, given that each spouse's retirement transition represents an important life event for the couple, requiring adjustment on the part of both spouses.

Research on retirement adjustment suggests that marriage and family relationships serve as social-relational resources in retirement adjustment (George & Maddox, 1977; Geve, Style, & Hughes, 1990; Hendrick et al., 1982; Kessler & Essex, 1982; Kilty & Belhling, 1985; Mutran et al., 1997; Vinick & Ekerd, 1989). Strong emotional support from a spouse may help individuals overcome stressful life events, thereby sustaining their psychological well-being.
For instance, Lee (1978) reported significant contributions of marital satisfaction to morale for older men and women (aged 60 and older), but the positive effect of marital satisfaction on morale was notably stronger for women than for men. Other research findings similarly indicate that women's psychological well-being is more heavily influenced by marital quality than is men's (Aquilani & Antonucci, 1994; Dehe & Weiss, 1998; Ross, 1999).

Context—To fully understand the links between retirement and psychological well-being, one must also consider the contextual factors in which retirement transitions are embedded. A key contextual consideration is gender, given that the retirement experience may well be a different process for women than it is for men. Because of their different work histories, employment opportunities, and general life experiences, women appear to adjust to retirement differently than men do. Specifically, there is evidence that women have more negative attitudes toward retirement than men do, and retirement is more disruptive and more likely to be linked with greater depression and loneliness for women than it is for men (Aschley, 1970a; Streib & Schneider, 1971). Some researchers have found gender differences in the predictors of retirement attitudes and satisfaction (e.g., Aschley, 1982; Causants, 1999; George, Fillenbaum, & Palmore, 1998; Matthews & Brown, 1987; Quick & Moen, 1998; Seccombe & Lee, 1986).

Prior levels (baseline) of psychological well-being are an important key contextual consideration, with two possible models of their moderating effects. The first is the cumulative model (Causants, 1999), which closely associated with continuity theory, with those already high on measures of psychological well-being experiencing the same level or even an increase following a recent transition to retirement. Correspondingly, the most disadvantaged would be the least likely to experience a positive change in psychological well-being consequent to a transition to retirement. Conversely, the role strain reduction perspective (Moen, Kim, & Holtzheimer, 2001) presumes that the lowest advantaged on a particular measure may well experience heightened psychological well-being in light of a movement out of (presumably stressful) career jobs and into retirement. From this point of view, becoming retired should reduce psychological distress and promote psychological well-being.

We examined possible moderating effects of gender and prior levels of psychological well-being on changes in psychological well-being for three groups of late-middle-aged individuals: those not yet retired from their career jobs, those who moved into retirement over the 2-year study period, and those who were stably retired. On the basis of the theoretical arguments offered, we proposed the following hypotheses:

1. Moving into retirement predicts changes in the psychological well-being of late-middle-aged adults, with the impact of the retirement transition contingent on gender and prior levels of psychological well-being.
2. Spouse's employment status, jointly with respondents' own retirement transitions, influence changes in the psychological well-being of late-middle-aged men and women.
3. Personal control, marital quality, subjective health, and income adequacy serve as important mechanisms of the retirement--well-being linkage. Specifically, the effects of employment, retirement status, and transitions into retirement on psychological well-being are indirect, mediated by changes in contextual factors (financial, relational, and personal resources). We also expected marital quality to be more influential for the psychological well-being of women than men.

Methods

Sample and Procedure

The data were drawn from the two waves of Cornell Retirement and Well-Being Study (Moen et al., 2001). The original sample consisted of 762 randomly selected individuals aged 50 to 72 years, including both retirees and workers who were not yet retired. The participants were recruited from six major upscale New York employers. Participants were randomly selected from lists provided by their employers and contacted by letter and telephone to request their participation and arrange for an interview. A total of 1,206 men and women were contacted, and 762 (63%) agreed to participate and completed the interview process.

The present study involves a subsample of married participants: 282 men (60%) and 176 women (38%). The average age of the subsample was 50 years (SD = 7.2) at the first interview (1994--1995), with a range from 50 to 72 years. Because of the demographics of the region, our sample consists mostly of White respondents (95%). Although retirement can be defined in many different ways (see Elder & Pavalko, 1993), in the present study, retirement is defined as receiving a pension (or early retirement package) from a career employer and/or Social Security benefits. Our operationalization captures the exit from full-time, career employment. (Another way of defining retirement is as the final exit from the workforce. However, as significant numbers of retirees are taking on part-time jobs, it is difficult to define when an exit is indeed "final."

The first wave of data was collected from 1994 to 1995. The majority of participants were interviewed in person with a structured interview, which took from 1 to 2 hr. Participants also independently completed a self-administered questionnaire. The survey instruments tapped issues relevant to employment history, retirement, health, activities, and psychological and emotional domains. The questionnaires in booklet form were adapted from various sources, including the Health and Retirement Survey (Juster, 1992), the Quality of Employment Survey (Quinn & Staines, 1979), and the Women's Roles and Well-Being Study (Moen, Dempster-McClain, & Williams, 1992). The second wave of data was collected about 2 years later, from 1996 to 1997 (Time 2), and the third wave was collected from 1998 to 1999 (Time 3). At the second and the third waves, 94% and 91%, respectively, of the surviving adults in the original sample were reinterviewed. We primarily drew on Waves 1 and 2, but include as well those who retired between Waves 2 and 3 in our category of newly retired. Those newly retired respondents, left their primary career jobs between 1996 to 1995 and 1996 to 1997 (20 men and 15 women); others did so between 1996 to 1997 and 1998 to 1999 (21 men and 18 women). Because analyses revealed no difference in effects
between the two groups, we combined them as newly re-
tired between Time 1 and Time 2. The average age of retirement from their primary career jobs was 58 years for men and 59 years for women. At Time 2, there were 106 not yet-retired respondents and 352 retirees. Eighty respondents (25% of the total cases) moved into re-
tirement between Time 1 and Time 2. The men reported an av-
erage household income of $40,400 (std = $45,000). The health status of the participants was typically very good (as indicated by self-rating of health av-
eraging 8.08 [SD = 1.91] for men and 7.93 [SD = 2.01] for women on a rating scale ranging from 0 [very serious health problems] to 10 [very best healthy]). Overall, the average length of marriage was about 31 years of the time of the first interview for both men and women. Note that this sample of married individuals may be more likely than the general population to be satisfied with their marriages because they report the marital “satisfaction” in late middle life whose marriages are longer in duration. That is, those most disat-
dish may have already left unhappy marriages and are, conse-
sequently, not in the married “sipple.”

Measures

Primary independent variables: work/retirement status and transition.—The respondents were divided into three work/retirement-transition groups: (a) long-term retirees, who left their primary career employment before the first in-
terview and thus were continuously retired at both Time 1 and Time 2 (181 men and 91 women), (b) newly retired indi-
viduals, who left their career jobs at some time between Time 1 and Time 2 (47 men and 33 women), and (c) not-yet-
retired individuals, who had not left their career jobs and were employed in these career paths at both Time 1 and Time 2 (54 men and 52 women). The spouses were simply divided into those who were employed and those who were not employed at Time 2. This is because different disat-
vances according to spouses’ transition statuses created very small cell sizes in the couples’ joint distribution.

Dependent variables: morale and depressive symp-
toms.—We used two measures of psychological well-being, at two points in time. First, the Philadelphia Geriatric Cen-
ter (PGC) Morale scale (Lawton, 1975) assesses a positive aspect of psychological well-being in late middle adults. The scale was developed to measure the subjective psycho-
logical well-being of individuals of retirement age or older. We used a subset of seven items from the PGC Morale scale, which measures attitude toward one’s own aging (e.g., “I am as happy now as I was when I was younger”). Items were answered “yes” or “no.” The average correlation coefficient among the seven PGC Morale scale items was .23, with a range from .16 to .40, and all correlations were statistically significant (p < .01) at Time 1. Internal consis-
tency (Cronbach’s α) of the scale was .80 at Time 1. The test-
retest reliability was .80 (p < .001).

Second, depressive symptoms were assessed with 12 items taken from the 20-item Center for Epidemiologic Studies—Depression scale (CES-D; Radloff, 1977). The va-

lidity and utility of this scale for use with community-dwelling older adults has been demonstrated in previous studies (Berkman et al., 1986; Kinsella, 1977). The items of the CES-D scale ask about the ways the respondent has felt or behaved during the past week (e.g., “I felt bothered by things that usually don’t bother me”). The average correlation coefficient among the 12 CES-D scale items was .39, with a range from .17 to .72, and all correlations were statisti-
cally significant (p < .01) at Time 1. The alpha reliability for this scale was .88 at Time 1. The test-retest reliability over 2 years was .58 (p < .001).

Contextual (excluding) variables: changes in income ade-
quacy, subjective health, marital quality, and personal con-
trol.—We assessed changes in various resources from Time 1 to Time 2. Income adequacy is respondents’ rank of the adequacy of their current income relative to their in-
come needs, on a scale of 0 to 100, on which 0 represents completely inadequate, and 100 represents more than ade-
quate. The subjective health measure is respondents’ rating of their health status on a scale ranging from 0 (very serious health problems) to 10 (very best health). We measured marital quality using the sum of two items of marital satis-
faction and marital-conflict frequency. First, marital satis-
faction was assessed using the response to a single question, “Taking all things together, how satisfied are you with your marriage?” Respondents had a choice of five answers rang-
ing from completely satisfied (5) to not at all satisfied (1). The measure of marital conflict was derived from the ques-
tion, “How often would you say the two of you typically have serious disagreements or conflicts?” The choices were more than once a week (5), about once a week (4), 1–3 times a month (3), less than once a month (2), or never (1). To create composites of marital quality with higher scores indicating more marital conflict and vice versa, we re-
versed marital conflict scores. The two measures of marit-
ial quality are significantly and negatively correlated with each other, τ = −.41 (average of Time 1 and Time 2 cor-
relations, p < .01). A sense of personal control was measured with seven items from the Mastery Scale (Pearlin & Schooler, 1978; e.g., “What happens to me in the future mostly depends on me”). Each item was followed with a four-level response format ranging from strongly agree (4) to strongly disagree (1). We calculated the scale score as the mean of the items, with higher scores indicating higher levels of personal con-
trol. The reliability of the scale (Cronbach’s α) was .84 at Time 1. The test-retest reliability (between Time 1 and Time 2) was .40 (p < .001).

Multiple Imputation (MI) of Missing Data

Regarding missing data (2–23 cases for men and 1–5 cases for women) for some of predictor variables, we per-
formed MI of missing data by means of the NORM program develop-
d by Schafer (1999). First we ran the expectation-
maximization (EM) algorithm step, whereby unknown parameters of complete data structure are estimated on the basis of assumed values for the parameters. This process re-
peats until the estimates converge to maximum-likelihood estimates that implicitly average over the distribution of the
missing values, with those estimated parameters serving as starting values for subsequent runs of data augmentation (DA). The DA is an iterative process that alternately fills in the missing data and makes inferences about the unknown parameters. The DA step first performs a random imputation of missing data on the basis of parameter estimates generated by the EM as starting values and then draws new parameters on the basis of the observed and imputed data. In the present study, we performed a single-imputation inference. Then we compared single imputation findings with MI inference results. For MI inferences, $m = 5$ (where $m$ is the number of imputations) imputed data sets were generated through DA, and the resulting five sets of parameters and standard errors were subjected to an iteration procedure for MI inference (Rubin, 1987) using the NORM program. The results regarding the estimates of the model coefficients based on the single imputation inference were approximately identical with the results based on MI inferences. For the regression models specified in the Results section, we report findings of the regression analyses that were based on the single-imputation inference data to evaluate overall model fits (i.e., $F$ statistic and $R^2$) and statistical comparisons of the regression models (i.e., $AD^2$).

**Analytic Strategy**
Because we believe that both one’s work/reirement status and the transition to retirement are gendered processes, contributing to psychological well-being in distinctive ways for men and women, we analyzed all data separately by gender. We conducted analyses with ordinary least squares (OLS) regression. We first examined the relationship between retirement status/transition and psychological well-being. In Model 1, the two psychological well-being measures, morale and depressive symptoms, were separately regressed on sets of variables reflecting respondents’ retirement status and transitions. Age was included as a covariate and Time 1 psychological well-being score was included to allow us to examine the effect of initial levels of psychological well-being on later level of psychological well-being (or continuity of psychological well-being over time). The interactions between Time 1 psychological well-being and retirement transitions test whether the relationship between retirement status/transition and subsequent psychological well-being depends on the level of Time 1 psychological well-being. To decrease the likelihood of sampling variability between the interaction term and its components, we centered the Time 1 psychological well-being scores before taking their cross-products with retirement status/transition by subtracting the mean value for each of these variables from individual scores (e.g., Lucaccid, Taurini, & Wan, 1999). Next, in Model 2, we added spouses’ employment status and the interaction between respondents’ retirement status/transition and spouses’ employment status. The interactions test whether respon- dents’ retirement status/transition have a differential impact on changes in psychological well-being depending on spouses’ employment status. Finally, in Model 3 we added both Time 1 measures and change scores of personal con- tent, marital quality, subjective health, and income adequacy to test whether changes in contextual variables mediate any effects of retirement status/transition on changes in psychological well-being after controlling for the baseline (Time 1) scores of these mechanisms. We created measures of change from Time 1 to Time 2 by subtracting Time 1 scores from Time 2 scores.

**Results**

**Descriptive Results**
Table 1 shows the measures used in this study and their score ranges, means, and standard deviations at Time 1 and Time 2. There are statistically significant gender differences and/or temporal changes in contextual variables as well as psychological well-being measures. Men were higher than women in morale, and women reported more depressive symptoms than men did. Men tended to report higher in- conic adequacy than women did, and there was an increase in income adequacy for both men and women. However, the increase in income adequacy between Time 1 and Time 2 was more dramatic for men than for women. For both men and women, levels of subjective health increased between survey waves, but there was significant decline in terms of marital quality (as indicated with increased levels of marital conflict and decreased levels of marital satisfaction at Time 2). Men tended to show higher levels of personal control.

**Table 1. Means and Standard Deviations of Variables Used in the Analysis**

<table>
<thead>
<tr>
<th>Variables (Possible Range)</th>
<th>Men ($n = 282$)</th>
<th>Women ($n = 176$)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$M$</td>
<td>$SD$</td>
</tr>
<tr>
<td>Age (yr)</td>
<td>43.92</td>
<td>9.54</td>
</tr>
<tr>
<td>Income Adequacy (0-100)*</td>
<td>71.37</td>
<td>20.59</td>
</tr>
<tr>
<td>Subjective Health (0-10)</td>
<td>3.06</td>
<td>1.09</td>
</tr>
<tr>
<td>Marital Quality (0-10)*</td>
<td>8.17</td>
<td>1.18</td>
</tr>
<tr>
<td>Marital Satisfaction (1-5)*</td>
<td>4.49</td>
<td>1.20</td>
</tr>
<tr>
<td>Marital Conflict (1-5)*</td>
<td>2.21</td>
<td>0.79</td>
</tr>
<tr>
<td>Personal Cons (1-4)*</td>
<td>3.17</td>
<td>0.49</td>
</tr>
<tr>
<td>Mental Health (3-5)*</td>
<td>5.32</td>
<td>1.52</td>
</tr>
<tr>
<td>Depressive Symptoms (0-8)*</td>
<td>4.28</td>
<td>2.17</td>
</tr>
</tbody>
</table>

*Significant difference by gender ($p < .05$). **Significant difference by time ($p < .05$).
than women did. Regardless of gender, however, personal control decreased from Time 1 to Time 2.

Changes in Mechanisms

In preliminary analyses we conducted a series of multi-
ple regressions testing the impact of retirement status/transition
on changes in each contextual variable separately (results not shown). Similar to Model 1, the regression equations estimated the effects of (a) the baseline contextual variable (income adequacy, subjective health, marital quality, and personal control), (b) retirement status/transition,
and (c) the interactions between Time 1 contextual variables and retirement status/transition. The results show that retirement status/transition were significantly associated with changes in the contextual variable measures from Time 1 to Time 2. Specifically, being newly retired was related to decreased income adequacy for men ($\beta = -0.22, p < 0.05$) but increased income adequacy for women $\beta = -0.22, p < 0.05$. A significant interaction indicated that women who reported lower income adequacy at Time 1 experienced greater increases in income adequacy ($\beta = -0.22, p < 0.05$). Being newly retired was also related to de-
creased marital quality for both men and women ($\beta = -0.45, p < 0.05$, for men and $\beta = -0.36, p < 0.05$, for women). However, for men, those who were higher in marital quality reported greater decreases in marital qual-
ity after moving into retirement compared with those who

were lower in marital quality prior to retirement ($\beta$ for in-
teraction $= -0.52, p < 0.05$).

Retirement and Changes in Psychological Well-Being

Tables 2 and 3 summarize findings of the hierarchical re-
gression analyses predicting changes in psychological well-
being by respondents’ retirement status/transitions, their
spouses’ employment status, and other contextual variables for
men and women, respectively. When we compared the
estimated means of men’s morale at Time 2 (after control-
ling for age and Time 1 morale), we found that newly retired
men reported the highest morale score (estimated $M = 5.92$,
standard error $SE = 1.99$) as opposed to those who were
continuously retired (estimated $M = 5.70, SE = 1.00$) or
those who had not yet retired from their primary-career jobs
(estimated $M = 5.55, SE = 1.99$). An interaction between
Time 1 morale and retirement status/transitions tested whether
or not those with lower morale experienced the greatest change
following retirement. We found that baseline morale indeed
served as a moderator in the relationship between men’s re-

tirement status/transitions and changes in their morale (see
Table 2). Figure 1 depicts the predicted regression lines for
the significant interactions found in men’s psychological
well-being. Specifically, among men who moved into retire-
ment by Time 2 (the newly retired), those who were lower
in morale at Time 1 experienced greater increases in their
morale compared with those who were higher in morale.

Table 2. Regressing Retirement Status/Transitions and Other Variables on Men’s Psychological Well-Being at Time 2

<table>
<thead>
<tr>
<th>Independent Variables</th>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
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<tr>
<td>Retirement Status/Transitions</td>
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<td>.01 (.10)</td>
<td>.01 (.10)</td>
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<tr>
<td>Employment Status</td>
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<tr>
<td>CR x SP_E</td>
<td>.00 (.01)</td>
<td>.00 (.01)</td>
<td>.00 (.01)</td>
<td>.00 (.01)</td>
<td>.00 (.01)</td>
<td>.00 (.01)</td>
</tr>
<tr>
<td>Income Adequacy</td>
<td>.01 (.04)</td>
<td>.01 (.04)</td>
<td>.01 (.04)</td>
<td>.01 (.04)</td>
<td>.01 (.04)</td>
<td>.01 (.04)</td>
</tr>
<tr>
<td>Subj. Health</td>
<td>.00 (.05)**</td>
<td>.00 (.05)**</td>
<td>.00 (.05)**</td>
<td>.00 (.05)**</td>
<td>.00 (.05)**</td>
<td>.00 (.05)**</td>
</tr>
<tr>
<td>Marital Quality</td>
<td>.04 (.15)**</td>
<td>.04 (.15)**</td>
<td>.04 (.15)**</td>
<td>.04 (.15)**</td>
<td>.04 (.15)**</td>
<td>.04 (.15)**</td>
</tr>
<tr>
<td>Personal Control</td>
<td>.00 (.10)**</td>
<td>.00 (.10)**</td>
<td>.00 (.10)**</td>
<td>.00 (.10)**</td>
<td>.00 (.10)**</td>
<td>.00 (.10)**</td>
</tr>
</tbody>
</table>

*p < .05, **p < .01; *p < .05, **p < .01.
Regarding depressive symptoms at Time 1, men who were continuously retired over both waves of the survey (average years retired = 4) tended to report the highest number of depressive symptoms (estimated M = 4.92, SE = .50), compared with men who only recently retired (estimated M = 3.96, SE = .50) or men who had not yet retired from their career jobs (estimated M = 4.04, SE = .55). There was a significant interaction between Time 1 CES-D and retirement transitions: Continuously retired men who were higher in CES-D at Time 1 reported greater increases in CES-D scores between Time 1 and Time 2 (see Figure 1). Thus, there appears to be something of cumulation of advantages and disadvantages for continuously retired, in that those high in depressive symptoms at Time 1 reported even more symptoms at Time 2.

Turning to findings for women, there was no strong evidence of significant main effects of retirement transitions or of interaction effects between retirement transitions and Time 1 psychological well-being on women's psychological well-being at Time 2 (see Table 3).

**Linked Lives: Spouse Employment Status**

As can be seen in Table 2, there were no statistically significant differences in men's and women's well-being, depending on their spouses' employment status. We further tested whether changes in spouses' employment status (rather than static status of spouses' employment) mattered for changes in psychological well-being of men and women (results not shown). The regression model included age, Time 1 psychological well-being, respondents' retirement transitions, interactions between Time 1 psychological well-being and respondents' retirement transitions, spouses' employment changes, and the interactions between respondents' retirement transitions and spouses' employment changes. We categorized spouses' employment status/change as follows: (a) spouses continuously out of the workforce (b) spouses change employment status between Time 1 and Time 2, (c) spouses continuously employed at both Time 1 and Time 2.

**Resources as Mediating Mechanisms**

For men's morale and depressive symptoms, adding control factors significantly increases the variance accounted for (ΔR² = .12, p < .05, for morale and ΔR² = .12, for depressive symptoms at Time 2).

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Table 3. Regressing Retirement Status/Transitions and Other Variables on Women’s Psychological Well-Being at Time 2

<table>
<thead>
<tr>
<th>Independent Variables</th>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
<th>Model 1</th>
<th>Model 2</th>
<th>Model 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>.00 (.03)</td>
<td>.00 (.03)</td>
<td>.01 (.03)</td>
<td>.17 (.18)</td>
<td>.16 (.16)</td>
<td>.18 (.17)</td>
</tr>
<tr>
<td>T/W</td>
<td>.39 (.12)**</td>
<td>.39 (.13)**</td>
<td>.51 (.12)**</td>
<td>.53 (.13)**</td>
<td>.54 (.13)**</td>
<td>.52 (.13)**</td>
</tr>
<tr>
<td>Retirement Status/Transitions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CR</td>
<td>-.02 (.37)</td>
<td>-.02 (.49)</td>
<td>.01 (.45)</td>
<td>1.19 (2.26)</td>
<td>.01 (.36)</td>
<td>-.09 (2.04)</td>
</tr>
</tbody>
</table>
| NR                    | .17 (.21)| .20 (.21)| .17 (.20)| 1.19 (2.31)| 2.85 (.35)| 2.09 (3.44)
| Not yet retired       |   |   |   |   |   |   |
| CR × T/W              | -.33 (.58)| -.33 (.58)| -.33 (.57)| .13 (.56)| .12 (.69)| .09 (1.44)|
| NR × T/W              | -3.51 (.19)| -3.51 (.19)| -3.51 (.19)| .37 (.17)| .37 (.17)| .37 (.17)|
| Spouse’s Employment Status |   |   |   |   |   |   |
| Employed (SP + E)     | .52 (.34)| .44 (.19)| .44 (.19)| .46 (.36)| 2.73 (3.70)| 2.73 (3.70)|
| CR × SP + E           | -.50 (.50)| -.50 (.50)| -.50 (.50)| .42 (.36)| 2.73 (3.70)| 2.73 (3.70)|
| NR + SP + E           | -4.4 (.05)| -4.4 (.05)| -4.4 (.05)| .50 (.36)| 3.07 (4.36)| 3.07 (4.36)|
| Contextual Variables  |   |   |   |   |   |   |
| TI Income Adequacy    | .01 (.01) | .01 (.01) | .01 (.01) | .01 (.01) | .01 (.01) | .01 (.01) |
| TI Subjective Health  | .37 (.06)**| .37 (.06)**| .37 (.06)**| .37 (.06)**| .37 (.06)**| .37 (.06)**|
| TI Mental Quality      | -.14 (.06) | -.14 (.06) | -.14 (.06) | -.14 (.06) | -.14 (.06) | -.14 (.06) |
| TI Personal Control    | .01 (.01) | .01 (.01) | .01 (.01) | .01 (.01) | .01 (.01) | .01 (.01) |
| Income Adequacy Change |   |   |   |   |   |   |
| Subjective Health Change |   |   |   |   |   |   |
| Mental Quality Change  |   |   |   |   |   |   |
| Personal Control Change |   |   |   |   |   |   |
| F                     | 13.81***| 10.87***| 10.41***| 11.90***| 8.08***| 9.30***|
| F (Model/Residual)     | 6.05 | 8.05 | 7.55 | 8.05 | 9.06 | 10.96 |
| R² (Adjusted)          | .23 | .23 | .23 | .23 | .23 | .23 |

*p < .05; **p < .01; ***p < .001.

Note: Values given are unstandardized coefficients with standard error in parentheses. a = 172 pair-retirement data of Time 2 spouse employment status. TI = Time 1; T2 = Time 2; WB = well-being; CR = continuously retired; NR = newly retired; SP + E = spouse employed.
p < .05, for depressive symptoms; see Table 2). As expected, various resources seem to serve as mechanisms through which retirement circumstances shape men's psychological well-being. Specifically, increases (between waves) in perceptions of income adequacy, subjective health, and personal control were associated with concomitant increase in men's morale after controlling for Time 1 levels of income adequacy, subjective health, and personal control. As can be seen in Model 1 of Table 2, for men's morale, the interaction between being newly retired and Time 1 morale is attenuated when the contextual variables are added to the model (standardized estimate β decreases from −.20 to −.15). Regarding men's depressive symptoms, decreased health and decreased personal control were related to increased depressive symptoms after controlling for subjective health and personal control at Time 1. Note that the significant interaction between being continuously retired and Time 1 CES-D scores was no longer significant once these contextual variables were added to the model, suggesting that they do indeed serve as mediating mechanisms between retirement circumstances and men's depressive symptoms (standardized estimate β decreases from .26 to .16).

Turning to women's psychological well-being, adding contextual variables to the model significantly increases the variance accounted for ΔR² = .17, p < .05, for morale and ΔR² = .17, p < .05, for depressive symptoms; see Table 3). Increases in subjective health and personal control were associated with increased morale after we controlled for initial levels of subjective health and personal control. Deline lines in women's subjective health, marital quality, and personal control over a 2-year period were related to increased depressive symptoms, after we controlled for baseline levels of subjective health and personal control.

Discussion

In this study we aimed to move beyond the mixed findings to date on the links between retirement and psychological well-being by constructing and testing a dynamic life-course, ecological model that included both mediators and moderators and changes in retirement status and psychological well-being over a 2-year period. What we found points to the complexity of the retirement process and the importance of tracking the retirement-well-being interface in particular contexts.

The Retirement Process in Context

Our findings indicate that retirement is not simply a state but a complex process, embedded in prior psychological resources as well as gendered experiences. Men tend to experience increases in their morale as they undergo actual transitions into retirement. This is consistent with previous findings of positive changes in life satisfaction during the first year postretirement among male retirees (Gill et al., 1997). It may well reflect the enjoyable “honeymoon” phase proposed by Ashley (1976b). He suggested that right after the event of retirement there often is a euphoric, busy, honeymoon phase during which retirees may feel more energetic, healthy, and satisfied as they pursue desired plans or experiments with new activities and roles. These findings seem to support the reduced role strain hypothesis. Retired men feel released from the pressures of their career jobs, thus retirement is beneficial for their psychological well-being. Other researchers also have shown that retirement may provide freedom from the time demands and daily structure of work life to pursue other interests and activities at a relaxed pace (e.g., Kelly & Wescott, 1991; Nelson, 1980). In that sense, retirement may represent a gain in the resource of time and a reduction in role strain. Consequently, when late-middle men move into retirement, their morale or general satisfaction with life appears to increase.

Our longitudinal analysis suggests the importance of viewing retirement not only as a process (with differences in well-being, for example, between the newly retired, who have only recently made this transition, and those who have been retired for a longer period of time) but also as one occurring in particular contexts. Specifically, the impact of
moving into retirement on subsequent changes in morale de- pend on initial levels of morale: Men retiring from their primary career jobs who have low levels of morale tend to experience greater improvements in morale following retire- ment, congruent with the role strain reduction theoretical perspective. Thus the retirement transition may well reduce the role strain and overload associated with the career jobs of those with low morale, thereby promoting their psycho- logical well-being. Our findings also demonstrate that con- temptuously retired men tend to report greater increases in de- pressive symptoms (compared with both those who are newly retired and those who are not yet retired), suggesting that being retired (as opposed to moving into retirement) may be a significant contributor to depression in later adult- hood (e.g., Bowe et al., 1987; Wright, 1990). The relationship between being retired and depressive symptoms, however, varies somewhat depending on prior psychological well-being. Consistent with the cumulation of disadvantage model, those retired men who are relatively higher in depressive symp- toms are vulnerable to experiencing even more depressive symptoms as they move through the retirement years.

Gender is also a key factor in shaping the ways in which individuals experience the transition to retirement. Both one's own and one's spouse's work-retirement status and transitions are more strongly related to men's psychological well-being than women's. Although we found no evidence in support of earlier findings linking retirement with greater depression for women than for men (e.g., Atchley, 1976a; Streib & Schneider, 1971), these prior findings may reflect women's initially disadvantaged position. Specifically, our study shows that women come to retirement with higher initial levels of depressive symptoms but lower levels of morale, personal control, and perceived income adequacy (see Table 1).

Retirement as a Relational Transition

We focused on the interdependence of linked lives re- garding the psychological well-being of married men and women around what are increasingly two retirement transi- tions, his and hers (e.g., Kim & Moen, 2001a, 2001b). Ac- cordingly, we conceptualized retirement as a relational tran- sition and considered both spouses' joint circumstances. On the basis of previous findings of significant spouse influ- ences in accounting for variations in postretirement marital quality (e.g., Moen et al., 2001; Myers & Booth, 1996; Szy- novacz, 1996), we expected that the effects of respondents' retirement status or transitions on their psychological well- being would be contingent on their spouses' employment status. Our data, however, provide no strong evidence that spouses' employment status conditions the effect of respon- dents' own retirement transitions on subsequent psychological well-being. Although it is not statistically significant (p = .29), there is a tendency for newly retired men whose wives are still employed to report the fewest depressive symptoms at Time 2 (after controlling for the initial level of depressive symptoms), whereas men who are not yet retired from their primary career jobs but whose wives are no longer in the workforce report the greatest depressive symptoms. Such interesting patterns warrant further attention in future research. It may well be that men do better in terms of psy- chological well-being when they retire first and their wives subsequently follow them in to retirement.

Retirement and Resources

We find that resources—financial, personal, and social—relational—serve as mechanisms for explaining the link be- tween retirement status and changes in psychological well- being. For both men and women, the relationship between retirement and psychological well-being seems to be par- tially mediated by changes in these resources, which, in turn, predict changes in psychological well-being. First, changes in income adequacy matter for men's morale but not for women's. Second, changes in subjective assessments of physical health are consistent predictors of changes in psy- chological well-being for both men and women. Third, sense of personal control is a key personal resource: In- creases in one's sense of control from Time 1 to Time 2 pre- dict increased morale and decreased depressive symptoms for men and decreased depressive symptoms for women. In fact, the personal-control measure is the strongest predictor of changes in men's morale and changes in depressive symptoms for both men and women, and the second stron- gest predictor of changes in women's morale (following subjective health). These findings reinforce prior evidence linking personal control and psychological well-being (e.g., Lachman & Burke, 1993) by showing the salutary effects of a sense of personal control around the retirement transi- tion. Finally, the hypothesis that marital quality matters more for women's well-being than for men's is supported by our data. For women, but not for men, declines in marital quality predict increases in depressive symptoms. Women appear to be more sensitive to changes in the quality of the marital relationship than men are. The stronger effects of marital quality on women's psychological well-being seem to be consistent with the typically greater involvement of women in marital and family roles over the life course, as well as the greater focus on interpersonal relationships for women than for men (Helgeson, 1984).

Strength and Limitations

This study has several distinct methodological and sub- stantive strengths. First, we focused on gender differences in the impact of retirement status/transitions on subsequent adjustment (rather than statistically controlling for gender differences), which may contribute to redefining what has been a "male model" of retirement (Calasanti, 1996; Moen, 1996). We found both similarities and differences between men and women in the relationships linking couples' retire- ment status/transitions and various resources to psychologi- cal well-being. Second, we considered retirement transi- tions as a couple-level phenomenon. This is particularly important, as most retiring individuals are married, and an increasing number of older men whose wives have already retired have also retired. This is a substantial change in the labor force, and is just one of the many changes that have occurred in the last 50 years. The most obvious limitation comes from constraints on generalization of the findings. Our sample included mostly

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