Coming to Terms with Major Negative Life Events

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People experience a variety of negative life events over the course of their lives. No one is immune to their occurrence, and the longer the lifespan, the greater the number of undesirable events one is likely to encounter. It is also popularly assumed in our society that "Time heals all wounds," and that psychological recovery will occur within a relatively brief period of time (Silver & Wormann, 1980). However, an increasing body of research evidence is calling these assumptions into question (see Silver & Wormann, 1980; Tait & Silver, 1989; Wormann & Silver, 1987, for ex-
views of this literature). In fact, evidence has begun to accumulate indicating that the psychological impact of negative life events may persist for many years for a significant proportion of the population.

Although theoretical and empirical attention devoted to the long-term effects of negative life events has increased steadily over the past few decades, no comprehensive view has yet emerged of the nature, prevalence, or chronicity of their psychological impact. In fact, the extent to which persistent effects can be seen as abnormal or normative consequences of these events remains unclear. However, one of the major impediments to the development of a model to predict or explain the long-term psychological impact of negative life events has been the wide range of interindividual variability in responses to a similar type of event (cf. Silver & Wortman, 1980; Wortman & Silver, 1987, 1989). The fact that people respond so differently to the same type of event suggests that the type of event perhaps may be less relevant to psychological impact and its persistence than are factors that influence how the event is experienced. In this chapter, we first describe the ways in which we feel major negative life events may continue to have an impact on those who encounter them. We then describe in some detail a study we recently conducted to examine the long-term impact of undesirable life experiences (Tait & Silver, 1989). Finally, we consider a number of situational, psychological, and social factors that may contribute to individuals' continuing cognitive and emotional involvement in the major events of their lives.

A GENERAL MEASURE OF IMPACT: EVENT-RELATED RUMINATIONS

Much of the past research on the psychological effects of negative life events has been concerned with clinical or dysfunctional levels of emotional impact. In contrast, our work has focused on a more subtle form of impact, which is believed to constitute a relatively common pattern of response to these events, at least over the short term. Previous work has pointed to a tendency; among those who have undergone major negative events to experience involuntary, intrusive, and distressing ruminations (i.e., thoughts, memories, and/or mental images) related to the event; see Silver, Wortman, & Klos, 1982). Horowitz (1977, 1980) has described such ruminations as a general stress response tendency. Their occurrence has been documented across different nonclinical populations with varying predispositions; following low, moderate, and high levels of stress; and for both natural and contrived stressors (see Horowitz, 1976, 1982, and Wegner, 1988, for reviews of this work). The experience of these ruminations tends to be correlated positively with the degree of reported stress and with levels of negative affect, and inversely related to indices of positive emotion (Horowitz, 1975).

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1975). Though less extreme, the general stress response tendency is similar in many respects to the intrusive element of Posttraumatic Stress Disorder (PTSD), as observed clinically and described in the Diagnostic and Statistical Manual of Mental Disorders, third edition (DSM-III; American Psychiatric Association, 1980). PTSD may persist for extended time periods (see, e.g., Bremner & Parson, 1985, Horowitz, Wilner, Kalreider, & Alvarado, 1980); however, with few exceptions (e.g., Lehman, Wortman, & Williams, 1987; Silver, Boos, & Steen, 1985), the general stress response has tended to be examined only over the short term. We believe that continuing ruminations about major stressful events constitute a rich but largely untapped source of information about the psychological aftereffects of negative life experiences.

Event-Related Ruminations and the Process of Recovery

Event-related ruminations have been linked to the Freudian theory of the compulsive repetition of reminiscences subsequent to traumatic events (see, e.g., Horowitz, 1979). In clinical investigations, Breuer and Freud (1895/1955) considered them to be hysterical symptoms precipitated by a traumatic event or series of events, and noted in particular the inordinate length of time they may persist. Breuer and Freud interpreted this persistence as symptomatic of an event that has not been sufficiently "abridged" or discharged, due either to the nature of the event itself or to the psychological state of the individual confronted with it.

Although event-related ruminations of the type described by Horowitz and his colleagues occur involuntarily, they are believed to play an integral role in the "working through" or processing of a negative life event whereby an individual gradually comes to terms with it (Horowitz, 1976, 1985; Janis, 1971; Parker, 1972; Silver et al., 1983). It is hypothesized that the occurrence of these ruminations, in alternation with periods of denial, allows the individual to come gradually to tolerate increasing doses of distressing aspects of the event. Event-related ruminations are believed to diminish over time as the event is worked through or resolved. Distressing ruminations are seen as falling within normal limits when they occur and subside within a relatively brief period of time following a disturbing event (Horowitz, 1985; Parker & Rachman, 1981a, 1981b, 1981c; Rachman, 1979, 1981). The persistence or recurrence of these ruminations is regarded as "the central indispensable index of unsatisfactory . . . [or] processing" (Rachman, 1979, p. 51).

However, the nature of this "working through" process is unclear. Horowitz (1975) describes a cognitive process, involving "match-making and integration... new or massive information about the self or world," including "the assessment of the meaning, interpretation and implications of [the incoming information]" (p. 146). Rachman (1979) favors an emotional-processing view, whereby "emotional disturbances are absorbed, and
decide to the extent that other experiences and behavior can proceed without disruption" (p. 5). It seems most probable that cognitions and emotions are equally essential; that the working-through process involves a dynamic interplay between them, thus, thoughts, memories, or mental images related to a negative life event may elicit certain types of affect (Folkman, Schaefer, & Lazarus, 1979; Lazarus, Kanner, & Folkman, 1980; Singer, 1978); and certain moods or feelings may evoke event-related rumination (e.g., Bowler, 1981; Clark & Isen, 1982; Snyder & White, 1982; Wenzel, Wegner, & Reber, 1981; Zajonc, 1980). The general measure of psychological impact adopted in our work—the experience of involuntary, intense, intrusive, and distressing ruminations related to a negative life event—addresses the extent of ongoing cognitive and emotional involvement with an event's occurrence.

TRIGGERS OF ONGOING COGNITIVE AND EMOTIONAL INVOLVEMENT IN EVENTS

The literature has suggested three factors that may be particularly relevant to understanding reasons for the persistence of psychological impact over time. They include the ongoing implications of the event (i.e., changes in life circumstances brought about by its occurrence); the need to interpret or appraise the meaning or personal significance of the event; and social responses to the occurrence of the event and/or the expression of event-related difficulties or distress. Each of these is considered in turn below.

The Ongoing Implications

The occurrence of a major negative event may engender changes in an individual's life circumstances (e.g., alterations in social roles and relationships) or in related considerations (e.g., finances, environment). Studies by Pearlin and his colleagues (see, e.g., Pearlin, 1983; Pearlin & Lieberman, 1979; Pearlin, Lieberman, Menaghan, & Mullan, 1981) have demonstrated the importance of these changes as possible enduring sources of strain. This work suggests that the psychological impact of major negative events is largely channeled through the persistent situational difficulties that may follow them (see also Antonovsky, 1982; Parkes, 1971; Thoits, 1983; Vachon et al., 1982). From this perspective, the negative implications of an event can be seen as referring to the loss of important aspects of the past—that is, of life prior to the event's occurrence.

However, the negative implications of an event may also include the loss of important aspects of the future. For example, an event's occurrence may preclude the realization of plans, possibilities, or aspirations in which an individual may be heavily invested (cf. Carr, 1973; Neugarten, 1979; Parkes, 1971; see, e.g., Kallbreider, Wallace, & Horowitz, 1970; Sayer, 1978). Although they cannot be considered aspects of one's actual life circumstances at the time of an event's occurrence, the preclusion of these possibilities may nonetheless represent a significant loss.

The ongoing negative implications of an event may differ widely in both nature and salience even among individuals confronting the same type of event, and may be experienced as part and parcel of an event's occurrence. We believe that they constitute an integral aspect of the experience of an event, and that without consideration of their implications, the psychological impact of an event can only partially be understood. In addition to coming to terms with the event itself, the individual may also come to terms with these implications. As long as they are salient and problematic, cognitive and emotional involvement in the event may persist. The continuing salience of an event's negative implications may be represented by ongoing unfavorable comparisons between aspects of one's life given the event's occurrence, and life as it might have been had the negative event not occurred (cf. Glick, Weiss, & Parkes, 1974; Klahnem & Tversky, 1982).

The Need to Find Meaning

Meaning has been described as the crucial organizing principle of human behavior (Marris, 1986). The need to find meaning in events—the desire to conserve their personal significance in cognitive and affective terms—has been proposed as a fundamental and universal motive (see, e.g., Frankl, 1963; Marris, 1986). The search for a meaningful personal identity or rationale for the occurrence of a negative life event is believed to play an integral role in the process of adjustment (Bennett, Ruskus, & Lazarus, 1980; Bumal & Wortman, 1977; Moon & Tiu, 1977; Silver et al., 1983; Taylor, 1983). Since individuals respond not to events in and of themselves, but to their interpretations of events (cf. Beck, 1979; Epstein, 1983; in press; Frankl, 1963; Kelly, 1955; Lazarus & Folkman, 1984; Parkes & Weiss, 1983), we believe that the ability to find meaning in an event plays a key role in influencing psychological impact and the potential for recovery. Moreover, meaning must also be found in an event's negative implications—that is, in life given its occurrence (see also Epstein, in press; Frankl, 1963). Thus, thoughts about an event's meaning as a possible enduring source of strain should be related to a continuing search for meaning in the event. When a meaningful and acceptable interpretation is not forthcoming, the search may persist for extended time periods, contributing to the persistence of emotional involvement in the event. A persistent search for meaning has been found to be inversely related to psychological recovery and positively related to the occurrence of involuntary, intrusive, and distressing event-related ruminations (Silver et al., 1983).

Social Responses to the Need for Discussion

Individuals confronting major negative events frequently report feeling a need to discuss the event or their responses to it with others (Coates &
coming to terms with it. We also see these responses as likely to be dynamic, transactional, and reciprocal in nature.

Recently, we have made an initial attempt to explore some of these issues in the context of a study of the long-term impact of stressful life events. In this research (Tait & Silver, 1989), we chose to examine the prevalence of the aforementioned responses and of persistent ruminations across a number of different types of major negative life events—"major" according to any predefined or objective criteria, but in terms of respondents' subjective, relative assessments. Given our interest in time as a factor potentially related to impact and recovery, we also chose to examine effects across a wide range of time periods since an event's occurrence. Finally, we chose to assess long-term psychological effects among a group of people who continue to function more or less successfully in their day-to-day social roles. With these purposes in mind, we approached senior citizens residing in the community for our study (Tait & Silver, 1989).

We assumed that respondents aged 60 and over would have experienced a variety of negative life events, one of which would be perceived by each individual as his or her "most negative event," providing us with a wide range of types of major negative events and of time periods elapsed since their occurrence.

THE STUDY

In our study, we sought to explore the relationship between our measures of continuing impact and subjects' self-assessed recovery from their most negative event, their overall level of life satisfaction, and the number of years that had passed since the event's occurrence. Potential respondents were contacted initially by means of a letter describing our research as an investigation of the long-term impact of major life events (see Tait & Silver, 1989, for a more detailed discussion). Structured interviews were conducted in respondents' homes, lasting an average of 2 hours. The interview covered a series of open- and closed-ended questions, many of which were developed for the particular purposes of our research.

Following completion of a measure of psychological well-being, (Neugarten, Havighurst, & Tobin, 1965), respondents were asked to describe the negative events they had experienced over the course of their lives, and to state when each event had occurred. From this list, subjects were asked to select the particular event they considered to have been "the worst thing that had ever happened" to them. The questions that followed focused on the ongoing psychological effects of this particular event.

Closed-ended questions assessed the general frequency of rumination about the most negative event and the frequency of deliberate event-related
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If she was living, I'd give me something to get out of life—I'd have her, and grandchildren, which would mean a lot to me.

The remaining 21% of the ruminations described by our respondents involved a combination of two of these three themes.

Characteristics of Event-Related Ruminations

A number of aspects of event-related ruminations were examined in our study, including the general frequency of ruminations related to the given event and the frequency of deliberate ruminations about it. Of particular interest, however, were the frequency, intensity, and intrusiveness of involuntary ruminations related to the respondent's most negative event. Each of the latter three characteristics was tapped by two separate items, which are described below. Table 12.1 presents a breakdown of subjects' responses to each of these questions.

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<tr>
<th>TABLE 12.1. Characteristics of Event-Related Ruminations: Percentage of Sample Reporting in Each Response Category</th>
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<td><strong>Frequency</strong></td>
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<td><strong>Deliberate involuntary</strong></td>
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<td><strong>Thinking without meaning to</strong></td>
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<td><strong>Thoughts “pop into mind”</strong></td>
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<td><strong>Intensity</strong></td>
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<td><strong>How “real” vivid, clear</strong></td>
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<td><strong>Intrusiveness</strong></td>
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<td><strong>Difficulty swallowing</strong></td>
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<td><strong>Trouble doing other things</strong></td>
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Note. Adapted from The Long-Term Psychological Impact of Major Negative Life Events by K. Tais and S. C. Silver, 1988, manuscript submitted for publication. Adapted by permission of the authors.

Thematic Content of Typical Event-Related Ruminations

For the purposes of our research, event-related ruminations were described to respondents as "thoughts, mental images, or memories related to the [reported most negative] event or to the person or people associated with it." Respondents' descriptions of "typical" event-related ruminations were assessed for thematic content. Ruminaton themes fell into three major categories. Forty-nine percent of these ruminations centered on the event itself. This type of rumination is exemplified by the following, in which a widow of 10 years described a rumination related to her husband's death:

> When he was in the hospital, I used to visit him every night. The week before he died, he said, "We have to talk." I said, "Why?" He said, "Because I'm going to die." I said, "Don't talk silly." I didn't let him speak. I always wonder what he would have said if I had let him talk.

> Twenty-one percent of the ruminations described referred to aspects of life prior to the event that had changed as a result of its occurrence. An illustration of this type of rumination is provided in the following statement, in which a widow of 7 years described ongoing ruminations about her deceased spouse:

> I think about him every day. I never go to bed at night without thinking of him before I settle down. We'd go out together a lot, go for walks. We'd usually talk together for an hour before going to sleep.

> Nine percent of the typical ruminations reported focused on aspects of life at present that might have been different had the event not occurred. Exemplifying this type of rumination is the following statement by a respondent who had lost his only child in an automobile accident 20 years earlier:

> If she was living, I'd give me something to get out of life—I'd have her, and grandchildren, which would mean a lot to me.
General Frequency of Ruminations

An average of 22.8 years following their most stressful experience, 71% of our sample reported that they continued to experience thoughts, memories, and/or mental images related to their most negative event at least sometimes. This percentage included 47% who sometimes had ruminations about the experience, 20% who ruminated frequently, and 4% for whom these ruminations occurred all the time. Only 4% of the sample reported never experiencing ruminations about their most negative life event. The frequency of event-related ruminations in general was inversely related to both self-assessed recovery from the event, r(40) = -.51, p < .001, and current life satisfaction, r(41) = -.48, p < .001, but was not significantly related to the number of years that had passed since the event occurred.

Frequency of Deliberate Thoughts, Memories, or Mental Images

Deliberate thoughts, memories, or mental images related to the most negative event were relatively infrequent: 12% of the sample reported intentionally ruminating about it at least sometimes; 83% reported never doing so. The frequency of deliberate thoughts, memories, or mental images was not related significantly to the frequency of involuntary event-related ruminations. In addition, no significant relations emerged between deliberate ruminations and self-assessed recovery, current life satisfaction, or the number of years elapsed since the occurrence of the event.

Frequency of Involuntary Ruminations

Two questions examined the frequency of involuntary event-related ruminations. Fifty-seven percent of the sample reported at least sometimes finding themselves ruminating about the event without really meaning to, including 12% for whom this happened frequently and 5% for whom these ruminations occurred all the time. Fifty-eight percent of respondents reported that thoughts, memories, and/or mental images related to the event “popped into” their minds at least sometimes, including 23% for whom this occurred frequently, and 2% for whom this happened all the time. These two items were significantly related, r(40) = .35, p < .05, and were combined into an index representing the frequency of involuntary event-related ruminations. This index was negatively correlated with both self-assessed recovery from the event, r(39) = -.51, p < .001, and current life satisfaction, r(40) = -.56, p < .001. No significant associations emerged between the frequency of involuntary ruminations and the amount of time that had passed since the event’s occurrence.

The Intensity of Ongoing Ruminations: Vividness and Absorbtion

The intensity of event-related ruminations was conceptualized as involving two components: the perceived vividness or clarity, and the extent to which the individual reported becoming absorbed or “caught up” in them.

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Eighty-four percent of the sample described their ruminations as at least somewhat clear or vivid, including 35% who described them as quite vivid and 30% who reported them as extremely vivid. Forty-seven percent of the sample reported becoming at least somewhat caught up or absorbed in them, including 14% who became quite absorbed and 7% who became extremely absorbed.

The perceived clarity of and absorption in these ruminations were significantly related, r(41) = .53, p < .001, and were combined into an index of intensity. This index was inversely related to both self-assessed recovery from the event, r(41) = -.45, p < .01, and current life satisfaction, r(41) = -.33, p < .05. However, the intensity of event-related ruminations was not significantly related to the number of years that had elapsed since the event’s occurrence.

Intrusiveness: Difficulty Disengaging Ruminations and Interference with Other Activities

Intrusiveness was assessed through the use of two items examining respondents’ perceived difficulty in disengaging ongoing event-related ruminations and the degree of interference with other activities that was experienced when they occurred. Twenty-one percent of the sample reported at least sometimes having difficulty disengaging event-related ruminations, including 9% for whom this difficulty occurred frequently. Seventeen percent reported at least sometimes having trouble engaging in other activities when these ruminations occurred, including 7% for whom this was frequently the case. Difficulty in disengaging ruminations and in engaging in other activities when they occurred were significantly related, r(41) = .58, p < .001, and were combined into an index of intrusiveness. This index was only marginally related to self-assessed recovery, r(40) = -.27, p < .08, but was negatively related to current life satisfaction, r(41) = -.50, p < .001. The intrusiveness of ongoing ruminations was, however, unrelated to the amount of time that had passed since the event.

Types of Affect Associated with Event-Related Ruminations

Six closed-ended questions assessed the frequency of a variety of emotions experienced in conjunction with ruminations related to the most negative event. The specific types of affect examined included feelings of sadness, anger, and anxiety, as well as feelings of happiness and of being “at peace.” For 67% of the sample, feelings of sadness were at least somewhat associated with event-related ruminations, including 10% for whom sadness occurred frequently and 19% who always felt sad when these ruminations occurred. Thirty percent of respondents reported finding these ruminations upsetting at least sometimes, including 7% who were frequently upset and 9% who were always upset. Smaller proportions of our sample reported that feelings of anger and anxiety at least sometimes accompanied these ruminations (17% and 21%, respectively).
These four emotions (sadness, upset, anger, anxiety) were significantly intercorrelated (Chronbach's alpha for interitem reliability = .73), and were combined into an index representing general distress. This index was inversely related to both self-assessed recovery, r (40) = -.52, p < .001, and current life satisfaction, r (44) = -.57, p < .001, but was unrelated to the amount of time that had passed since the event.

Sixty-two percent of the sample reported that feelings of happiness were at least sometimes associated with event-related ruminations, including 7% who reported feeling happy frequently and 19% who always felt happy when these ruminations occurred. Seventy-two percent reported at least sometimes feeling "at peace" (26% frequently, 45% always). Feelings of happiness and feeling "at peace" were positively related, r (40) = .26, p < .05, and these two items were combined into an index representing the degree to which ruminations were associated with positive emotions. This index was positively related to both self-assessed recovery, r (40) = .38, p < .01, and current life satisfaction, r (44) = .30, p < .05. It was also inversely related to the number of years that had elapsed since the event, r (41) = -.38, p < .01.

Additional Dimensions of Ongoing Cognitive and Emotional Involvement

Thirty-nine percent of the sample at least sometimes found themselves thinking about ways in which life might have been different had the event not occurred. Thirty-seven percent of the sample reported still searching at least sometimes for a meaningful perspective from which to view their most negative life event. Twenty-six percent frequently or always felt a need to discuss the event or their responses to it with others. These three variables were positively interrelated and were combined into an index representing aspects of ongoing cognitive and emotional involvement with the given event.

This index of ongoing involvement was negatively related to both self-assessed recovery from the event, r (39) = -.41, p < .01, and current life satisfaction, r (40) = -.39, p < .01, but was unrelated to the number of years that had passed since the event's occurrence. This index was positively related to the frequency of involuntary event-related ruminations, r (39) = .43, p < .01; to their intrusiveness, r (40) = .32, p < .05; and to their intensity, r (40) = .47, p < .01; and to the experience of distress in association with them, r (39) = -.72, p < .001.

In summary, for a considerable proportion of the cases examined in our study, the psychological impact of major negative events persisted after an extended period of time had passed. In fact, the ongoing experience of involuntary, intense, intrusive, and disturbing ruminations, related to our subjects' most negative life events was inversely related to both perceived recovery from the event and life satisfaction, after an average of more than 22 years since the event's occurrence. Moreover, the negative relations observed between these ruminations and subjective assessments of recovery provide some support for the validity of the former as a measure of persistent impact. With the single exception of the experience of positive emotions in association with event-related ruminations, which was inversely related to the number of years that had elapsed since the event, none of these measures of impact were significantly related to the amount of time that had passed since the event.

Since change over time was not examined in our study, it remains unclear as to whether the ruminations described by our respondents reflected a fairly steady perseveration as opposed to widely fluctuating levels of impact during the years between the occurrence of the event and our interview. Our data indicate only that, for many of our subjects, cognitive and emotional involvement in the event was ongoing. For these individuals, in Lewin's (1951) terminology, the event still "had existence"; that is, it was not a closed issue, but remained a part of psychological reality, exerting demonstrable influence that was measurable in both quantitative and qualitative terms.

Despite evidence of ongoing cognitive and emotional impact, our respondents appeared to be functioning at least adequately in their day-to-day social roles. Exactly half the sample reported that they felt they had completely recovered from the event in question, and the mean life satisfaction score compared favorably with established norms (see Tait & Silver, 1989). Nonetheless, the pattern of significant relations that emerged between self-assessed recovery and life satisfaction and our measures of ongoing impact underscores the importance of considering the various factors that may contribute to or maintain psychological impact or impede the process of recovery.

Our research addressed such factors through the examination of three additional indicators of ongoing cognitive and emotional involvement in a negative life event. Persistent thoughts about the negative implications of the event, a continuing search for meaning in the event's occurrence, and a need to discuss the event or related concerns or distress with others were conceptualized as referring to aspects of ongoing disorganization as coming to terms with the given event. As was the case for our more general measure of impact, the indexes formed by combining these responses were inversely related to both self-assessed recovery and life satisfaction, and unrelated to the amount of time that had passed since the event.

RUMINATIONS, LIFE SATISFACTION, AND THE CONTINUING IMPLICATIONS OF AN EVENT

Since the correlational nature of the relations examined in our work precludes the formulation of causal statements, it remains unclear whether event-related ruminations contribute to or arise from lower levels of life satisfaction, or whether the inverse relation between them is attributable
to the influence of other factors. However, studies by Schwartz and Steack and their colleagues (e.g., Schwartz & Cloe, 1983; Steack, Schwartz, & Gochnerdinger, 1983) provide some evidence that ruminations about a past event can influence current evaluations of life satisfaction. Their analysis suggests that a key factor determining the nature of this influence is the kind of affect elicited by these ruminations in the present. Thus, negatively valenced ruminations about a past event may bias judgments of life satisfaction downward, whereas positively valenced ruminations may exert the opposite effect. Because of its focus on voluntary rather than involuntary ruminations, it is unclear to what extent valid extrapolations can be made from this work to our research. Nonetheless, it may be the case that distressing event-related ruminations, regardless of their voluntary or involuntary nature, can exert a considerable negative influence on judgments of satisfaction with life.

Perhaps a clearer argument can be made that factors contributing to lower levels of life satisfaction may directly or indirectly enhance the likelihood of distressing event-related ruminations, particularly when these factors are attributed to the occurrence of the given event, as in the case of its ongoing negative implications. Some evidence for the relevance of an event’s implications to long-term psychological impact and life satisfaction can be found in the results of the thematic analysis of the content of the “typical” event-related ruminations described by subjects in our study. In addition to thoughts, memories, or mental images centering on the event itself, respondents described ruminations about negative implications of the event in terms of either aspects of life prior to the event that had changed as a result of its occurrence, or aspects of life in the present that might have been different had the event not occurred. Responses to our question specifically addressing the experience of thoughts about the ongoing implications of the most negative event also suggest the importance of this consideration to both psychological recovery and satisfaction with life.

When the continuing salience of an event's negative implications results in unfavorable comparisons between aspects of the past (i.e., of life prior to the event’s occurrence) and one’s present circumstances (cf. Brickman, Coates, & Janoff-Bulman, 1978; Steack et al., 1983), even pleasant thoughts, memories, or mental images may be a source of current distress. In the words of one of our respondents,

Sometimes I remember the good times we used to have, and how good he was to me and the children. He certainly was a very good husband. He had his temper, like any man, we had our ups and downs, and our quarrels, but most of them are very good memories. They hurt now, too. They hurt since he died. Although they are good memories, they still hurt me.

Aspects of one’s present life circumstances may also be unfavorably compared against plans, hopes, or goals that were precluded by the occurrence of the negative event. In discussing thoughts about the implications of the death of her husband after his decision to postpone retirement for 2 years, another of our respondents described them in the following terms:

We would have gone to Europe. We would have tried to stay life with one another, the friends, the relatives, a better social life. Felt I was losing housing. . . . Those things keep going through my head.

The continuing negative implications of an event, when they result in unfavorable comparisons between life as it is and life as it might have been, may make a substantial contribution to lower life satisfaction, and may also act as persisting triggers of distressing event-related ruminations.

An event’s implications may contribute to ongoing cognitive and emotional involvement in these ways. First, the implications of an event may remain salient and problematic over time. It is also possible that an event’s implications may actually become salient and problematic with the passing of time. Such a case has been illustrated earlier by the respondent in our study who described ongoing ruminations related to his subject’s diabetic daughter 20 years earlier; his ruminations centered on the loss not only of his only child, but also of the grandchildren he could have expected had her death not occurred (see also Carr, 1975; Parkes, 1971). Finally, a possible specification is suggested by the significant inverse relationship observed in our study between the experience of positive emotions (happiness, feeling “at peace”) in association with event-related ruminations and the number of years that had passed since the event. In explaining these positive emotions, many of our subjects referred to the fact that the event was over, and with it had terminated the suffering of a loved one. It is possible that this type of positive implication, while potentially of great salience in the immediate aftermath of an event, may decrease in salience over time relative to negative implications that remain or become salient or problematic.

Solvent negative implications of an event that remain operative in the individual’s current life situation represent potential sources of ongoing psychological impact above and beyond the occurrence of the event. Through these implications, an event may continue, long after its termination, to exert considerable influence on one’s life. However, as in the case for the occurrence of the event itself, the actual implications of the event may be of less importance to understanding psychological impact and recovery than the interpretation of their meaning or personal significance.

PSYCHOLOGICAL RECOVERY, INTERPRETATION AND INTEGRATION

The process of “working through” a negative life event (cf. Freud, 1914/1958), optimally leading to resolution or recovery, has been described as
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experience, it may be that problems in interpretation can arise in particular for events that are beyond the range of common experience. Examples of such events include incest (Silver et al., 1983); the accidental, suicidal, or homicidal death of a loved one (Lehman et al., 1987; Ryckman, 1986); and catastrophic events, such as those experienced during natural disasters (e.g., Eifling, 1980; Lifton, 1968; Tischler & Kopp, 1976). Individual characteristics or motives may also influence the search for a meaningful interpretation, for example, a need for validity (Kruglanski, 1986; Tesser, 1983) may prolong the search for extended periods of time.

A second type of complication may arise when an event is interpreted in terms that are meaningfully, but incomparably, related to aspects of the existing system—challenging or violating, for example, fundamental beliefs, assumptions, or expectations (e.g., Janoff-Bulman, 1984, in press; Lerner, 1980). In these cases, the information may be interpreted by altering the existing belief system in accommodatory. However, the process of accommodatory may prove to be both time-consuming and distressing. Kruglanski (1986) has proposed the influence of a general "conservative impulse," an initial and potentially persistent resistance against change in aspects of the prevailing conceptual structure, which have probably established some validity over time. Discrepancy between a general and the specific interpretations of the interpreters, theories, or models has been associated with a sense of inconsistency or discontinuity, a sense of incoherence or unpredictability, and feelings of the loss of or absence of control (c.f. Antonovsky, 1982; Epstein, 1982; Festinger, 1957; Kruglanski et al., 1983). Again, individual characteristics or motives may play an important role in determining the extent of resistance to inconsistent information. Resistance may be stronger, for example, with higher levels of the need for structure or of the need for specific conclusions (Kruglanski et al., 1983).

Factors that may influence the process of accommodatory include the nature and centrality of the threatened or violated construct, and the perceived relatedness with other aspects of the existing system. We would expect that the more central or deeply embedded the relevant belief or model, the more difficult and prolonged the process is likely to be. For example, giving them's (1970) hierarchical model of cognitive structures, one might anticipate that second-order beliefs would be more resistant to alteration than first- or second-order beliefs. On the other hand, the greater the individual's cognitive complexity—that is, the greater the extent to which beliefs or models are uncontaminated or discrete—the easier the process may be (see, e.g., Jolliffe, 1985). The influence of individual characteristics or motives may also come into play in the accommodatory process. For example, a high need for structure (Kruglanski et al., 1983) may intensify the distress associated with dissonance between an event's characteristics and aspects of the existing conceptual framework.

When the interpretation of an event is inconsistent or unacceptable with the existing conceptual framework, integration may also be achieved.
by reinterpretting the event in terms that are assumable within the given structure (see, e.g., Frank), 1963; Lerner, 1980). In some cases, reinterpretting an event in terms that are acceptable may prove to be as difficult as, or more difficult than, the initial formulation of meaning. As long as a meaningful and acceptable interpretation remains elusive, the search for meaning may continue for extended time periods. Moreover, we believe that the implications of an event constitute an integral aspect of its overall meaning or personal significance, and that long-term psychological resolution requires the development of a meaningful and acceptable interpretation not only of the event, but also of its ongoing implications (i.e., of life given the occurrence of the event). The positive relation that emerged in our research (Tait & Silver, 1989) between rumination about an event’s implications and a continuing search for meaning suggests that this may be the case. Whether a continuing search for meaning elicits thoughts about an event’s implications, or whether problematic implications cause one to consider the meaning of an event, is unclear. It may be, however, that the clearest interpretation of a major negative event can be made only from a long-term perspective, in light of its full range of negative and positive implications.

**PSYCHOLOGICAL IMPACT AND THE SOCIAL MILIEU**

Lazarus (see, e.g., Lazarus & Folkman, 1984) has suggested that an individual confronting a major negative life event may face two sources of threat or stress—that arising from the event itself, and that arising from his or her responses to the event. The literature indicates that people are frequently surprised by the nature and intensity (and, perhaps, persistence) of their own responses to these events (cf. Horowitz, 1983; Silver & Wortman, 1980). In fact, the need to discuss an event or one’s responses to it with others has been linked to the need to receive validation—that is, feedback from others indicating that these responses are normal and appropriate to the circumstances (e.g., Dukel-Scheiter & Wortman, 1981, 1982).

Individuals who experience major negative life events or difficulty in coming to terms with them may frequently turn to significant others in the social milieu for assistance and support. Prior work has identified various forms of social support that may facilitate the process of recovery by reducing the demands associated with an event’s occurrence or by enhancing the individual’s ability to meet these demands (for reviews, see Cohen & Wills, 1985; Kessler & McLeod, 1985; Kessler, Prose, & Wortman, 1985; Turner, 1983). In order for social support to be effective, however, it must be appropriate to the particular needs or difficulties experienced by the individual (cf. Lehman, Elliott, & Wortman, 1986; Tients, 1982; Wortman & Lehman, 1985). Ineffective or inappropriate responses can contrib-
hostility (toward or rejection of the individual or his or her attempts at discussion), or freezing (no response or "clash" response). All of these reactions may serve to inhibit expressions of the need for discussion. In comparison, the experience of empathic concern may result in greater openness to manifestations of this need—that is, in more willingness to confront evidence of continuing difficulty or distress, and in a higher probability that attention will be directed to relevant contributing factors.

To some extent, these two basic empathic responses may reflect underlying differences in general orientations to stress or threat (i.e., avoidance vs. approach or confrontation; Roth & Cohen, 1986). However, other factors may also influence the nature and extent of arousal elicited by observing another’s ongoing distress. Most relevant to the present analysis are the nature and extent of the threat that may be posed to the observer by the occurrence of the event and/or of continuing event-related difficulties or distress, or, more precisely, by the interpretation of the event and/or of its persistent impact.

Drawing a parallel between the sources of threat that may be faced by the individual and those that may be posed for members of the social milieu broadens our perspective on the psychological impact of a negative event. This broader perspective allows us to look beyond the individual confronted with its occurrence, and to consider the event’s potential impact on members of the social milieu, the relation between this impact and social responses, and the potential effects of these responses on the individual’s experience of the event. From this perspective, the model of psychological impact and recovery described above may be extended to members of the individual’s social network. That is, the occurrence of a major negative event and/or of ongoing difficulties in coming to terms with it may threaten or violate important beliefs, assumptions, theories, or models of self, others, or the world, not only for the individual, but also for members of his or her social environment. To the extent that this is the case, both parties may experience direct threat or stress, and both may be faced with similar tasks of interpretation, assimilation, accommodation, or reinterpretation. The basic motive to find meaning in events or outcomes characterizes both parties of a social relationship, and extends beyond one’s own outcomes to include those of significant others. Thus, for both parties, the actual event or outcome may be of less relevance than the process of recovery, or than their interpretation of its meaning or personal significance, and the consistency or inconsistency of this interpretation with important aspects of existing conceptual frameworks or structures of meaning. In cases of inconsistency, significant others may be directly, rather than just vicariously, threatened by the occurrence of the event and/or evidence of persistent difficulty in resolving it. The experience of direct threat or stress may increase the likelihood of responding to the event or to evidence of its continuing impact with personal distress rather than with empathic concern.

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As in the case of the individual, the extent of threat already experienced among members of the social milieu may be a function of the nature and centrality of the particular beliefs, assumptions, theories, or models that are challenged or violated by the individual’s experience of event-related difficulties or outcomes, and the degree of inconsistency between them. One kind of belief, assumption, or expectation of particular relevance has been identified as the “assumption of invulnerability” (i.e., the belief that major life events are unlikely to happen to us; Janoff-Bulman & Frieze, 1983; Perloff, 1983; Perloff & Pettee, 1986), and as the “optimistic bias” (i.e., the tendency to underestimate the probability of perceiving negative events; Weinsten, 1980, 1984; Weinstein & Lachendorf, 1982). We believe that this kind of assumption or expectation may also extend to one’s perceived probability of experiencing event-related difficulties or distress (Oklahansky, 1982; Wiekle, Waver, & Hanfield, 1981). That is, the motives or processes underlying the tendency to assume invulnerability to, or to underestimate the probability of, the occurrence of negative events in one’s own life may contribute to a similar tendency to minimize the perceived likelihood of experiencing persistent event-related difficulties or distress. Indeed, since we are generally held less responsible for the events that happen to us than for our responses to these events (cf. Brickman et al., 1982), there may be an even greater tendency to underestimate the likelihood of experiencing persistent, meaningful, negative events. This assumption or expectation may exert a similar biasing influence with regard to one’s beliefs about the probability of major negative events occurring and of their persistent impact among those who are closer to us—that is, those with whom we share an identity relationship (cf. Lerner, 1981). This tendency may make a substantial contribution to a more general belief, assumption, or expectation that the psychological impact of these events is normally limited to relatively narrow temporal parameters, and that persistent psychological impact represents an "abnormal" outcome of these events.

THE INDIVIDUAL’S RESPONSES TO SOCIAL RESPONSES

When the need for discussion is inhibited by members of the social milieu, the individual may find himself or herself caught in a conflict between the need to discuss a major negative event or related concerns or distress with others, and the need to maintain stable and harmonious social relations (Epstein, 1985). The individual may respond by persisting in his or her attempts to involve others in discussion, or may acquiesce to strong social sanctions against the persistent expression of event-related distress. In the former case, others may respond with increasing hostility toward, or rejection or avoidance of, the individual, or his or her communications (e.g.,
CONCLUSIONS

The purpose of this chapter has been to contribute to a normative view of the long-term psychological impact of major negative life events, and to apply to this description a theoretically based explanation, in attempting to do so, we have adopted a broader frame of reference than is usually the case in studies of the psychological impact of events. Rather than examining impact within a given type of event or sequence of events, we have attempted to establish some bases for comparison across different types of events, according to subjective and relative judgments of severity. Comparisons across event types are a novel approach. For example, what has been established to this point is that the psychological impact of the loss of a limb, the death of a spouse, and forced relocation due to urban renewal. Marris (1986) points to the commonalities in patterns of response to bereavement, illness, divorce, and the experience of colonization and industrialization in Third World countries. Similarly, Danks and Weiss (1983) suggest that studies of the process of recovery from bereavement and the ways in which this process may be impeded can provide a viable model of recovery from any irremediable loss.

The expression of loss may represent a significant common denominator among the major negative events described by respondents in our research (Tait & Silver, 1989). This loss may be literal (e.g., the loss of a particular person, environment, role, or relationship) and symbolic (e.g., the loss of future possibilities, cherished hopes, goals, or plans). Our basic emphasis is on the meaning of events, situations, or responses, and represents a symbolic interactive approach. From this perspective, any event that threatens or violates important models or theories of self, others, or the world may represent a loss. (cf. Vissart, 1986). Moreover, distance between the meaning of experience and central models or theories of reality may pose a significant threat or loss, modules as they undermine the predictability of one's social and/or social experience (cf. Marris, 1986; Simons, 1979).

Rather than concentrating primarily on the occurrence of the event as the single determinant of impact, the focus of our work has been on the nature and influence of potential contending factors that are dependent on the event's occurrence and widely varied across individuals and over time. These factors (i.e., the ongoing negative implications of an event, the need or motive to find meaning in these events, or the occurrence of the event and/or to expressions of continuing difficulty or distress) may be thought of as referring to situational, psychological, and social dimensions of the experience of a relatively normal response to these events can reduce or eliminate a potential source of stress for both the individual and members of his or her social milieus, and may enhance the ability of both parties to deal effectively with the factors contributing to its persistence.
individual and his or her situational and social environment are involved in a continuing dynamic and reciprocal relation (cf. Lazarus & Folkman, 1984).

Our concern with normative long-term psychological responses to negative life events reflects a predisposition to a disease perspective (cf. Sugarman, 1966). Rather than viewing these events as pathological causes of dysfunction, we see them as normative transitions that carry the potential for growth and development, as well as for persistent difficulty or distress. Normative data provide a description of average or typical impact, and do not refer to optimal or ideal responses or effects. It is important to distinguish between normative and prescriptive approaches; in acknowledging lasting impact as a normal outcome, it is necessary to avoid contributing to the belief that a brief, uncomplicated recovery is in any way abnormal.

The individual confronted with a major negative event may encounter a number of obstacles on the road to recovery, and there is considerable potential for associated impact to persist for years or even decades. However, it is also possible for such an individual to meet the demands of the event's negative implications and to develop a meaningful and acceptable interpretation over the short or long term. It is also possible for members of the social milieu to respond to the event and its continuing impact with maximal empathic concern and a minimum of personal distress. The probability of these latter outcomes may be significantly enhanced by recognition of the prevalence of persistent psychological impact of negative life events. We believe that the absence of clear normative information about these possible long-term effects of these events has played a major role in the perpetuation of overly optimistic beliefs, assumptions, or expectations regarding the potential complexity and duration of the recovery process. Ironically, these optimistic assumptions or expectations may themselves make a substantial contribution to the persistence of distress.

NOTES
1. We wish to thank David Hamilton for bringing this item to our attention.

2. Is the type of negative event that occurs an adequate basis for assigning an objective estimate of its severity? In addition, is there a relation between these objective assessments and the individual's subjective experience of a given type of event? Because of potential differential access to relevant information (see, e.g., Jones & Nisbett, 1971), we would expect to find a considerable discrepancy in assessments of the severity of various types of events between the individuals confronted with them and those viewing the events from an outsider's perspective. Our study (East & Sibley, 1969) provided some evidence that this is, in fact, the case. Two independent raters were presented with a list of all negative events each subject had.

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reported having experienced over the course of his or her life, and were asked to select for each event the particular event they believed would have been the most only 55% of the cases. In only 50% of the cases the most negative events correspond with the events reported by the respondents as the most severe. This finding calls into question the validity of attempts to predict or explain the impact of negative life events as a function of objective group (RAHE, 1967).

REFERENCES


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Automatic and Dysfunctional Cognitive Processes in Depression

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Intrusive negative thoughts are among the most distressing symptoms of depression. The content of these thoughts can vary widely from one depressed person to another. Some individuals may complain that they are preoccupied with thoughts of failure in their career, whereas others are plagued with intrusive thoughts concerning their inability to establish close relationships. Although the content of these thoughts varies among depressed patients, the theme of negative self-evaluation and self-reproach remains constant. Depressed individuals also complain that their negative thoughts "have a life of their own"—that is, they occur without intention, and their relation to environmental events is unclear. In addition, depressed individuals often regard their negative thoughts as "uncontrollable," since their attempts to inhibit or suppress them are futile. For example, a patient may report that while he or she is engaged in a conversation with a close friend, thoughts of personal inadequacy and rejection (e.g., "I'm boring," "I know they don't like me") intrude into awareness, even though the negative events of these thoughts are incongruent with the situation. And the depressive thoughts persist "like a broken record," despite attempts to inhibit or distract attention away from them.

The intrusive nature of depressive thought has led researchers and