CHAPTER CONTENTS

9 Explaining Variations in the Effects of Supportive Messages

A Dual-Process Framework

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to the message. process these messages or (2) environmental cues that quickly trigger responses influencing the message recipient's ability and/or motivation to systematically messages and show that these moderators can be interpreted as (1) factors demographic, personality, cognitive, and situational moderators of supportive a comprehensive review of published research findings concerning the multiple variables moderate the effects of supportive messages. We provide process theory of supportive message outcomes to explain how and why processed) by their recipients. This chapter uses a recently developed dualcircumstances but less effective in others. To understand why supportive comprehensive explanation of why support messages are effective in some substantially) by characteristics of the recipient, the helper, and the situation. support messages, the effects of these messages are moderated (sometimes messages work, we must understand how these messages are worked on (i.e., Thus, enhancing the success of helpers who provide support requires a Although some recipients benefit from exposure to sophisticated and sensitive

INTRODUCTION

upportive communication—"verbal and nonverbal behavior produced with the intention of providing assistance to others perceived as needing that aid" (Burleson & MacGeorge, 2002, p. 374)—is rapidly emerging as a core concern across the communication discipline. Supportive communication

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supportive communication is increasingly a global concern, with researchers effects of social support on health, both physical (see review by Uchino, 2004) a host of contexts and settings. For example, considerable research indicates embraced social support as a key communicative phenomenon. practices, preferences, and outcomes (e.g., Burleson, M. Liu, Y. Liu, & exploring cultural similarities and differences in supportive communication Burleson & Kunkel, 2006; Goldsmith & Dun, 1997). Moreover, the study of women's supportive communication practices and preferences (see reviews by and health benefits of supportive communication can be achieved through onwith interests in communication technology have probed whether the social by Albrecht & Goldsmith, 2003; Zoller & Kline, this volume). Likewise, scholars outcomes that may enhance the prediction of health-related effects (see reviews motivated researchers to investigate supportive communication processes and and mental (see review by Schwarzer & Leppin, 1992). These findings have supportive communication has been stimulated by research documenting the schools (e.g., Goldsmith & Albrecht, 1993; MacGeorge, Samter, & Gillihan, contributes to well-being in the workplace (see review by Apker & Ray, 2003), by Burleson & MacGeorge, 2002). Additionally, supportive communication review by Gardner & Cutrona, 2004) and other close relationships (see review that supportive communication serves essential functions in the family (see Y. Liu, 2006; Xu & Burleson, 2004). Clearly, communication researchers have Mortenson, 2006; Feng & Burleson, 2006; Mortenson, M. Liu, Burleson, & interest in gender issues have explored similarities and differences in men's and line support groups (e.g., Wright, 2002; Wright & Bell, 2003), while those with 2005), and the community (e.g., Albrecht, 1994). Much of the interest in

Suhr, 1992; House, Landis, & Umberson, 1988), perhaps the most common or inclusion, and enhancing the recipient's self-esteem (see Cutrona & of supportive communication" (Burleson & MacGeorge, 2002, p. 384). a communication perspective, the study of 'social support' is the study to realize their supportive intentions (Goldsmith, 2004). That is, "from on this topic is the concern with the messages through which helpers seek social support from the extensive sociological and psychological literatures goal pursued in supportive messages is the provision of emotional support including dispensing information and advice, fostering a sense of belonging (Burleson, 2003). Although supportive messages may exhibit a variety of help-intended goals, A major feature that differentiates communication-focused scholarship on

properties of more and less effective emotional support messages (see reviews comfort, reduce suffering, and relieve distress—can powerfully affect the by Burleson & MacGeorge, 2002; Cunningham & Barbee, 2000; Goldsmith Wills & Fegan, 2001). Several research programs have sought to identify the recipient (Albrecht & Goldsmith, 2003; Goldsmith, 2004; Uchino, 2004; feelings, coping behavior, personal relationships, and even physical health of Messages that aim to provide emotional support-those intended to

> emotional distress and achieving other desirable outcomes (Burleson, 2003; Burleson & Goldsmith, 1998; Dunkel-Schetter, Blasband, Feinstein, & Herbert, solace-oriented messages are especially helpful at reducing the recipient's 2004). In particular, more empathic, person-centered, face-supportive, and 1992; Goldsmith, 1994).

reception research-to understand how supportive messages work, we must messages underscores what we take to be a fundamental axiom of message 2003). Indeed, the research documenting moderators for the effects of support how they notice, process, and experience messages (e.g., Kaul & Lakey, to the operation of cognitive and affective processes in recipients that influence to be inconsistent results for various supportive messages may actually point and why messages lead to characteristic outcomes. For example, what appear messages, how various factors affect message processing in particular ways. do certain variables moderate the effects of supportive messages in specific recipients and/or contexts than others. Hence, maximally effective supportive indicate that certain support messages are more appropriately used with some variations may define boundary conditions for the helpfulness of different support messages differ (sometimes substantially) as a function of several understand how these messages are worked on (i.e., processed) by recipients. theory by generating a richer understanding of how people process supportive ways and on specific occasions? Answering this question should contribute to variations in outcomes of supportive messages demand explanation: Why likely qualify the effects of various message options. At the level of theory, practice requires knowing how relevant features of the recipient and context support messages (see Helgeson, Cohen, Schulz, & Yasko, 2000) and, thus, are theoretically interesting and pragmatically important. For example, these 1997; W. Stroebe & M. Stroebe, 1996). These variations in message outcome (see reviews by Lakey & Cohen, 2000; B. R. Sarason, I. G. Sarason, & Gurung, characteristics of the recipient, the helper, and the communication situation However, a growing number of studies have concluded that the effects of

within the dual-process framework. This review provides an evaluation of outcomes of supportive messages do so either through (1) their influence on the message reception. Grounded in a dual-process approach to information message outcomes by drawing from a recently developed theory of support the integrative power and potential of the dual-process approach for support moderators of support messages to determine if these findings can be explained the core of the chapter comprehensively reviews extant research findings on the or (2) serving as cues that quickly trigger responses to the message. Second recipient's ability and/or motivation to systematically process these messages this explanation suggests that many of the variables found to moderate the processing (Chaiken & Trope, 1999; Todorov, Chaiken, & Henderson, 2002). is twofold. First, we offer an integrative explanation for variations in support moderate the effects of support messages. Thus, the purpose of this chapter Currently, we lack a comprehensive explanation for the factors that

message processing, and it organizes these findings for future research in this

others do not? and interactions have extended, lasting effects on health and well-being while messages work-or fail to work? Further, why do some supportive episodes coping behaviors of those that they seek to assist? How and why do these contexts? How do supportive messages influence the feelings, thoughts, and explores the general utility of this approach as well as its value for addressing people in particular contexts but different effects with different people in other questions such as: Why do particular messages have certain effects with certain the realm of persuasion where it was originally developed, the current analysis 2005). By extending the scope of the influential dual-process approach outside understudied, core communication process of message reception (see Berger, our analysis contributes to an enhanced understanding of the fundamental, yet Beyond helping to explain why the effects of supportive messages vary

To address these and related issues, we begin by offering an overview of the properties of more and less helpful emotional support strategies and discussing that need to be addressed. note some limitations in existing theory and research on supportive messages some of the factors found to moderate the effects of these messages. We also

PROPERTIES AND MODERATORS EFFECTIVE EMOTIONAL SUPPORT STRATEGIES:

Properties of Effective Emotional Support Strategies

about the properties of more and less effective forms of support from these reviews, which offer many more details than the current space permits.² people find more versus less helpful. We derive the following generalizations insight about the behavioral features that distinguish the supportive efforts most Goldsmith, 2004; Wortman, Wolff, & Bonanno, 2004) provide considerable & MacGeorge, 2002; Cunningham & Barbee, 2000; Dunkel-Schetter et al., 1992; and synthetic reviews of these empirical findings (e.g., Burleson, 2003; Burleson Numerous studies have sought to identify helpful forms of supportive behavior,

those feelings (Burleson, 1994). messages that also encourage the articulation, elaboration, and exploration of when helpers embed such statements in highly person-centered (HPC) Similarly, recipients typically experience statements by helpers that provide express sincere sympathy, sorrow, or condolence as sensitive and helpful convey acknowledgement, comprehension, and understanding and those that broadly perceived as helpful. In particular, recipients perceive messages that legitimacy for feelings (and sometimes actions) as quite helpful, especially Messages expressing positive helper intent, feeling, and commitment are

> (Dunkel-Schetter et al., 1992, p. 97). helper "overinvolvement, intrusiveness, oversolicitousness, and overconcern" experiences (Dakof & Taylor, 1990). Finally, recipients do not benefit from be viewed more positively if it comes from someone with genuinely similar unhelpful at improving recipient affect, although this form of support may or about a similar situation in the past. Moreover, such responses prove focus by the helper on his or her own feelings about the current situation situation (Burleson & Goldsmith, 1998). Recipients also resent an extended recipient's experience and/or expression of negative feelings, statements or unhelpful. Particularly dysfunctional messages include criticism of the (which deny, criticize, or ignore their feelings and perspectives) as especially telling the recipient how he or she should feel and think about the upsetting implications that the recipient's feelings are unwarranted or illegitimate, and Not surprisingly, recipients consider low person-centered (LPC) messages

without significant disadvantages; MacGeorge, Feng, Butler, & Budarz, 2004). perceive advice as helpful if it is contextually appropriate (i.e., solicited by the positive regard and respects the target's autonomy; Goldsmith & MacGeorge and is presented in a "face-supportive" way (i.e., in a manner that conveys sound content (i.e., proposals that appear to be effective, implementable, and recipient and appropriately timed; Goldsmith, 2000; Jacobson, 1986), contains efforts (Goldsmith, 1994). Recent research indicates that individuals more likely comprises a risky enterprise that frequently backfires; advice may be viewed as experienced as insensitive and unhelpful. Efforts aimed at distracting the target's 2000; MacGeorge, Lichtman, & Pressey, 2002). helpful, but it is also regularly identified as an unhelpful feature of supportive attention from the upsetting situation may be helpful in some circumstances and that "everything will work out," as helpful, but such statements can also be occasionally perceive reassurance, particularly assertions that "the worst is over" 1995). Similarly, providing advice about how to manage aspects of the problem invalidating and unhelpful in other circumstances (Barbee & Cunningham, (Derlega, Barbee, & Winstead, 1994), but recipients can interpret them as Several other forms of emotional support elicit mixed reactions. Recipients

Messages Factors Found to Moderate the Effects of Supportive

age, nationality, ethnicity, social class (socioeconomic status), and sex M. Stroebe, 1996). More specifically, several demographic factors have been of the recipient, the helper, and the communication situation (see reviews by the effects of supportive messages are moderated by several characteristics generally more helpful or effective than others, research increasingly finds that Goldsmith, 2004; Lakey & Cohen, 2000; Sarason et al., 1997; W. Stroebe & found to moderate the effects of supportive messages, including the recipient's Though substantial research indicates that some supportive messages are

complexity. Finally, several features of the interactional context moderate the supportive messages, including attachment style, perceived support availability, sex of the helper, the status of the relationship between the helper and the effects of supportive messages, including the recipient's need for support, the locus of control orientation, gender schematicity, and interpersonal cognitive with respect to personality traits and cognitive factors moderate the effects of Researchers have also determined that individual differences among recipients recipient, and certain features of the supportive message itself.

although both men and women evaluate HPC comforting messages more seek to explain through a comprehensive model of how various moderating factors influence the processing and outcomes of supportive messages. factors. The variable effects of supportive messages constitute a puzzle that we moderation have been detected for a broad range of individual and situational even when researchers strictly control message content. Similar patterns of sources as more helpful than supportive messages coming from male helpers, experience supportive messages originating from (or attributed to) female & Gerin, 1999; Samter, Burleson, & Murphy, 1987) report that recipients outcomes of supportive messages. Several studies (e.g., Glynn, Christenfeld by Burleson & Kunkel, 2006). Sex of the support provider also influences more positively and LPC messages less positively than do men (see review positively than they do LPC messages, women tend to regard HPC messages recipient influences the outcomes of supportive messages. Specifically For example, numerous studies have found that the sex of the suppor

agreement about which variables moderate the effects of supportive behaviors comprehensive explanation exists for the moderating action of these variables if researchers explain it at all. moderating variable has been explained by a distinct theoretical mechanism explanations for the effects of these moderators. Typically, the action of each pp. 74-80). This practice has led to a complex and often confusing array of Goldsmith, 2004, pp. 16-19; Reis & Collins, 2000, pp. 146-165; Uchino, 2004 putative moderators focusing on largely different sets of variables (e.g., compare particular moderators in an isolated fashion, with several recent reviews of that the existence of these moderators constitutes a problem. Moreover, we lack on the effects of support messages, nor is it apparent that researchers recognize rarely, if ever, completely qualify effects owing to message content. Despite supportive messages typically have been rather modest in magnitude and important and theoretically interesting as indicated above. Currently, no their typically modest effect sizes, these moderators remain pragmatically The fragmented character of the literature has led many researchers to treat The effects observed for most variables that moderate the impact of

for the moderating effects of different variables on message outcomes need a parsimonious theoretical account that provides a coherent explanation We believe that such an integrative account can be derived from a recently Clearly, researchers concerned with the outcomes of supportive messages

> a dual-process framework. developed theory of support message processing, a theory that is grounded in

AND OUTCOMES OF SUPPORTIVE MESSAGES A DUAL-PROCESS THEORY FOR THE RECEPTION

extent to which attitude change predicted behavioral change. persistence of the attitude change achieved through persuasion, and the variable receiver, and contextual factors on attitude change; the variable strength and phenomena as the varied (and even contradictory) effects of message, source, particular, dual-process models offered testable explanations for such puzzling resolve several problems in the persuasion and attitude-change literatures. In 1980; Todorov et al., 2002) were introduced in the early 1980s in an effort to Bizer, & Cacioppo, 2004) and Chaiken's Heuristic-Systematic Model (Chaiken, see Gass & Seiter, 2007; O'Keefe, 2002; Perloff, 2003). Approaches such as approaches to human information processing in the context of persuasion (e.g., the Elaboration Likelihood Model of Petty and Cacioppo (1986; Petty, Rucker, Communication scholars are probably most familiar with dual-process

supportive communication. The dual-process theory for supportive message persistence or endurance of changes in affect and coping achieved through effects of various independent variables (message, source, receiver, and components of this model in particular contexts.³ Figure 9.1 provides a graphic summary of the essential and determinants of the mode of processing employed by message recipients modes that can be applied to supportive messages, the consequences that outcomes (which we briefly summarize here) provides a detailed analysis of evaluations, changes in affect, coping, and behavior) and (2) differences in the contextual factors) on recipient responses to supportive messages (e.g., message literature; they advocated this approach could explain (1) differences in the approach for resolving similar problems in the supportive communication follow from particular processing modes for changes in affect and behavior, the varied processes through which changes in affect may occur, the processing Bodie and Burleson (2006) suggested the potential of the dual-process

Processing Modes

systematic and thoughtful processing of messages to a very low level of recipients carefully reflect on the content of the message and the information supportive messages on an elaboration continuum that ranges from the highly process theory for supportive message outcomes assumes that people process Similar to dual-process theories developed for persuasive messages, the dualrespect to message content. Thus, when processing messages systematically, thought. Elaboration refers to the extent to which an individual thinks with

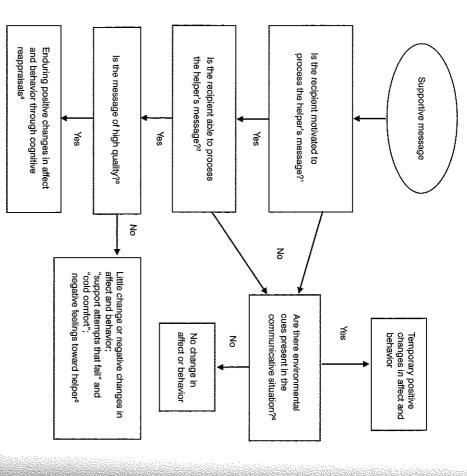


Figure 9.1 A dual process model for supportive communication (after Petty Cacioppo, 1986)

- Motivation to process supportive messages is influenced by both situational factors (e.g., severity of problem, timing of message, message content) and individual-difference factors (e.g., perceived support availability, attachment style, affiliative need, locus of control)
- Ability to process supportive messages is influenced by both situational factors (e.g., presence) communicative competence). absence of attention distracters) and individual-difference factors (e.g., age, cognitive complexity,
- 3. Quality of supportive messages is influenced by factors such as the explicit statement of helping intentions, verbal person centeredness, facework or politeness, and nonverbal immediacy, among
- 4. Mechanisms through which cognitive reappraisals effect enduring positive changes in affect and behavior are described by Burleson and Goldsmith (1998)
- 5. The harmful consequences of poor quality supportive messages that receive thoughtful processing are detailed in Burleson (2003)
- 6. Environmental cues that can activate low elaboration affect change mechanisms include sex and attractiveness of the helper and type of the relationship between the helper and recipient.

distraction, refocusing attention away from the cause of upset.⁴ certain cognitive heuristics-tacit interpretive and decisional rules (e.g., mechanisms of affect change that require relatively little thought, including environmental cues (e.g., sex of the helper, status of the relationship with the when engaged in a low level of elaboration, recipients of supportive messages contained within it, thoughtfully consider this information in relation to prior "women provide sensitive support;" "friends provide helpful support")—and pay comparatively little attention to the content of the message. Instead, ideas, and give close attention to the full content of a message. In contrast, helper) largely influence communication outcomes. These cues may activate

be supportive than by whether the helper actually produced a well-crafted supportive message (see Mankowski & Wyer, 1997). circumstances, people are affected more by the perception that a helper could kind of helper served as the basis for recipient response. Further, in certain content of helpers' supportive messages; rather, the presence of a particular These results suggest that recipients did not attend to or deeply process the report) the content of the supportive messages generated by these others messages. For example, some research indicates that people often report at least on occasion, engage in little elaboration when processing supportive thoughtfully to message content (e.g., Barbee & Cunningham, 1995; (e.g., Lehman, Ellard, & Wortman, 1986; Lehman & Hemphill, 1990). feeling comforted by the mere presence of others and cannot remember (or Derlega, Winstead, Oldfield, & Barbee, 2003; Larose, Moivin, & Doyle, assistance from others, and, when they do, they appear to attend quite messages that they receive. Often, individuals explicitly seek support and 2001). However, research also provides convincing evidence that people do, Undoubtedly, people systematically process many of the supportive

Consequences of Processing Mode

mechanisms activated by environmental cues do not act on the causes of upset, change such as distraction) are likely to be short-lived since affect-change better about things owing to the presence of these cues (e.g., receiving support environmental cues in support situations imply to recipients that they should feel and stability, differ. For instance, many cognitive heuristics triggered by various the recipient's appraisals of the problematic situation which—along with emotion scholars such as Lazarus (1991)—we assume to be generated by such heuristics (and other low-elaboration mechanisms of affect from women and friends is helpful). However, the changes in affect and coping from a woman or a friend) and rules associated with these cues (e.g., support (Burleson, in press). Yet, the reasons for these outcomes, as well as their duration outcomes (e.g., improved affect and coping), especially in the short term Both low and high elaboration of supportive messages can produce desirable

and attenuation hypotheses). with that content (e.g., a female helper using a HPC comforting strategy), but supportive messages are processed systematically; they may add somewhat Environmental cues should have comparatively little effect on outcomes when and face support should yield desirable outcomes; messages exhibiting low messages exhibiting high levels of empathy, solace, person centeredness, supportive messages, the content of these messages will have a considerable and Haugtvedt, & Smith, 1995) suggests that when recipients elaborately process message content (see Todorov et al., 2002, for a discussion of the additivity they tend to be discounted when inconsistent with systematically processed to the effects of systematically processed message content when consistent levels of these characteristics should yield few or even harmful outcomes lasting effect on outcomes. In particular, under conditions of high elaboration In contrast, persuasion research (e.g., Haugtvedt & Petty, 1992; Petty

and attention is refocused.5 quite effective in these circumstances (Burleson, in press); helpers may need to strategies that rely on mechanisms such as heuristics or distraction might be provide only a temporary lift in the recipient's affect until the upset dissipates that distress likely decay rapidly on their own accord. Simple supportive In such instances, the recipient's mild distress and the problem underlying when recipients experience relatively mild forms of distress (see Endnote 2). low-elaboration affect change mechanisms may not be a cause for concern The brief duration of emotional and behavioral changes achieved through

affect are present and then return to ruminating about the upsetting situation More distressed persons may cheer up only briefly when cues activating positive mechanism is no longer active, negative affect and dysfunctional coping likely and consequential problems. Once the cue is absent and the associated change much less effective when recipients suffer from more intense emotional upsets mechanisms of affect change (e.g., heuristics, distraction) are likely to be (Nolen-Hoeksema & Larson, 1998; Nolen-Hoeksema & Morrow, 1993). resurface, especially if the problematic situation is severe (Pennebaker, 1997). The use of simple supportive strategies that rely on low-elaboration

problematic situation (Jones & Wirtz, 2006). Because these messages address than their unhelpful counterparts to facilitate a cognitive reappraisal of the comforting messages and other beneficial forms of support are more likely about the meaning and personal significance of events and tends to happen cognitive reappraisal as an affect change mechanism that can produce stable support, and HPC comforting). Burleson and Goldsmith (1998) identified physical health) usually occur when they systematically process high-quality coping (as well as related outcomes such as improvements in mental and when recipients elaborately process high quality supportive messages. HPC improvements in affect and coping; reappraisal involves changing judgments forms of emotional support (i.e., those providing empathy, solace, face For recipients dealing with a serious upset, lasting changes in affect and

> in the recipient's thoughts, feelings, and behaviors (e.g., Donnelly & Murray processing of these messages has a good chance of yielding enduring changes recipient's cognitive appraisals of the problematic situation—the systematic the underlying causes of emotional states and coping orientations-the 1991; Lepore & Helgeson, 1998; Lepore, Ragan, & Jones, 2000).

Determinants of Processing Mode

ability factors "encompass a person's capabilities and opportunities" (Petty & information processing and [give] it its purposive character" (p. 218); whereas, Cacioppo, motivational factors comprise those "that propel and guide people's its content thoughtfully (Petty & Cacioppo, 1986). According to Petty and are motivated to attend to the message and posses the ability to consider messages most likely occurs (and occurs most extensively) when recipients the factors that influence recipient processing. Systematic processing of versus high elaboration of support messages makes it important to understand The character of the changes in affect and coping achieved through low Wegener, 1999, p. 53).

promote systematic processing of support message content. emotional intelligence), which reflect individual differences in ability, can several social-cognitive capacities (e.g., interpersonal cognitive complexity, cognitive load (e.g., other tasks demanding cognitive resources). Finally, systematically include environmental distractions (e.g., noise) and increased Situational factors likely to decrease the ability to process supportive messages dispositions (e.g., need for cognition, perceived support availability) and the intensity of emotional upset experienced. Motivation to systematically situational factors that can increase the recipient's motivation to systematically motivation and ability to carefully consider message content. For example, source, aspects of the topic, features of the interactional setting) influence the process support message content can also be enhanced by several personality process supportive messages include the severity of the problematic situation demographic variables) and the situation (e.g., characteristics of the message Both qualities of the individual (e.g., personality traits, cognitive capacities

hand (applicability principle). Factors such as the recency and frequency of the a message (accessibility principle) and apply to the decision making task at occur when an individual has a heuristic (decision rule) stored in memory as Todorov et al. observed, the use of a particular heuristic is most likely to appears to be governed by three principles (Todorov et al., 2002). Specifically, decisional heuristic. The operation of heuristics activated by peripheral cues (availability principle) that recipients can access during the presentation of the message, source, or communication situation (i.e., a cue) may activate a influence responses to supportive behavior. For example, some feature of low, environmental cues that activate low-elaboration processes more strongly When either the motivation or ability to process supportive messages is

heuristic's use govern principles such as the accessibility of a heuristic (and, thus, the triggering potential of its associated environmental cue). For example, in contemporary American society, many will have available the heuristic that women provide helpful emotional support (see Burleson & Kunkel, 2006); this heuristic may be easily accessible for some owing to its frequent use (e.g., those high in gender schematicity), and it becomes applicable in a particular situation when a female helper seeks to provide comfort.

Summary

In sum, the dual-process theory of supportive message outcomes maintains that the effects of supportive messages vary as a joint function of the way in which individuals process messages (low to high elaboration) and features of the communicative situation (message content versus environmental cues). This theory further maintains that the likelihood of processing supportive messages systematically is influenced by factors that impact the motivation and ability to scrutinize message content in supportive contexts. The next section seeks to apply this theory to explaining moderators of supportive message outcomes.

EXPLAINING MODERATORS OF THE EFFECTS OF SUPPORTIVE MESSAGES: A DUAL-PROCESS APPROACH

supportive messages by influencing their ability and/or motivation to elaborate The dual-process theory of supportive message outcomes suggests an inclusive, yet parsimonious, framework for organizing and explaining the results of supportive messages by either of the aforementioned processes suggest several as-yet unexamined factors that may moderate the effects of addition, to evaluate the heuristic potential of our dual-process theory, we influencing the motivation and/or ability to process message content) or cuing can be reasonably viewed as impacting the recipient's processing mode (by and situational factors found to moderate the effects of supportive messages comprehensive review of the various demographic, personality, cognitive, of the dual-process theory of supportive message outcomes, we present a moderators of support message effects and evaluate the integrative potential the use of decisional heuristics. In an effort to explain extant findings about on message content or (2) serve as cues in low-elaboration processes such as suggests that these moderating factors can (1) affect how recipients process factors moderate outcomes of supportive messages. Specifically, this theory studies showing that numerous source, recipient, message, and contextual the use of quick decisional judgments under low elaboration conditions. In For each moderator documented by extant research, we consider whether it

Explaining Demographic Moderators of the Effects of Supportive Messages

Researchers have determined that several demographic characteristics of message recipients moderate the effects of supportive messages. We suggest that the sex, culture, age, and social class of a support recipient affect the motivation and/or the ability to process supportive messages in a systematic manner.

Sex Differences

Sex of the support recipient serves as a reliable moderator of the effect of supportive behavior. Numerous studies (see review by Cutrona, 1996) indicate that women are less satisfied with the support that they receive than are men; this sex difference holds true in marital relationships (Acitelli & Antonucci, 1994) and early adolescence (Shirk, Van Horn, & Leber, 1997). Numerous studies (Burleson & Samter, 1985b; Jones & Burleson, 1997; Kunkel & Burleson, 1999; MacGeorge, Graves, Feng, Gillihan, & Burleson, 2004; Samter, Whaley, Mortenson, & Burleson, 1997) reveal that, although both men and women evaluate and respond more positively to HPC comforting messages than to LPC messages, women respond somewhat more favorably to HPC messages than do men; whereas, men respond more favorably to LPC messages than do women (see review by Burleson & Kunkel, 2006). Other studies (Carels & Baucom, 1999) provide evidence that women's evaluations of supportive interactions with their spouses are more influenced by the content of the interaction (i.e., the messages) than are men's evaluations of supportive interactions with their spouses.

Women, thus, appear to discriminate more critically and carefully than men among the supportive messages that they receive, perhaps because they are more motivated and/or better able to evaluate the supportive messages they receive do than men. Compared to men, women report a stronger desire for support (especially emotional support; e.g., Xu & Burleson, 2001), and they place a greater value on the supportive skills of friends and family members (e.g., Burleson, Kunkel, Samter, & Werking, 1996; MacGeorge, Feng, & Butler, 2003). These findings coincide with the notion that women are more motivated than are men to systematically process the supportive messages they receive. Other findings suggest that women are better able than men to systematically process these messages. For example, women exhibit higher levels of cognitive complexity (e.g., Samter, 2002), empathy (e.g., Trobst, Collins, & Embree, 1994), and emotional intelligence (e.g., Brackett, Mayer, & Warner, 2004) than do men, all of which appear to influence the capacity to systematically process support messages, especially highly sophisticated messages (see Burleson & Caplan, 1998).

Cultural Differences

similarly, though highly sensitive comforting messages and coping behaviors supportive messages. Members of different ethnicities in contemporary America than do Americans (Burleson & Mortenson, 2003; Mortenson et al., 2006). Chinese; whereas, Chinese respond much more favorably to LPC messages Americans respond somewhat more favorably to HPC messages than do Americans (Burleson & Samter, 1985a) and Chinese (Burleson et al., 2006). are evaluated more positively than less-sensitive support behaviors by both more favorably than do European Americans (Samter et al., 1997). Somewhat do African Americans; whereas, African Americans evaluate LPC messages However, European Americans evaluate HPC messages more favorably than HPC comforting messages more positively than LPC comforting messages. (African Americans, Asian Americans, European Americans) all evaluate Ethnicity and nationality of the support recipient also moderate the effects of

assumed intentions providing the context or interpretive frame for processing a provider's concerned desire to help can be taken for granted, with these explained, in low-context communication, "the mass of information is vested communication (Gudykunst & Matsumoto, 1996; Hall, 1976). As Hall other, more collectivist cultures are more inclined to engage in high-context especially motivated to avoid further upsetting social harmony by critically about disturbing social harmony by sharing unpleasant feelings—may be collectivist culture, the distressed person-who probably already feels guilty and evaluating verbal messages (see Chang & Holt, 1991). Moreover, within a of support behaviors to infer the helper's intentions and concerns. Rather, examine the content of these messages and rely less on the specific content the information is either in the physical context or internalized in the person" in the explicit code" (p. 70), yet, in high-context communication, "most of whereas, Chinese, Asian Americans, African Americans, and members of more individualist cultures routinely engage in low-context communication; communication. Specifically, European Americans and members of other, messages builds on the distinction between low- and high-context friend (Gao, Ting-Toomey, & Gudykunst, 1996). (i.e., systematically) evaluating what may be less-than-tactful behavior from a friends and family, they probably are less motivated than are Americans to (p. 79). Thus, when Chinese receive support from in-group members such as One explanation for these cultural differences in responses to supportive

supportive messages. The individualist desire for others to directly address their distressing feelings and problems addressed (Feng, 2006; Taylor et al., 2004) to be more focused than are collectivist Chinese on having their personally and evaluate what helpers actually say (i.e., systematically process supportive this orientation may motivate them to draw sharper distinctions among various messages). Individualist Americans who experience emotional upset appear In contrast, low-context Americans appear more motivated to scrutinize

> that they receive. differentially motivated to scrutinize the content of the supportive messages support messages as slightly, but significantly, more helpful than Chinese (see Burleson & Mortenson, 2003). In sum, members of distinct groups appear distressed feelings may also account for Americans viewing highly sensitive

Age Differences

to systematically process the content of the supportive messages they receive. represent lesser motivation by older adults than by their younger counterparts processing supportive messages. Thus, the moderating effect of age might by Blieszner, 2000), all of which may lead to less effort being expended in detached and withdrawn and less interested in social interactions (see review Some theorists maintain that, as the end of life nears, people become more levels of social support when compared to their younger counterparts. well-being, with older individuals indicating satisfaction even with decreased 19 to 85, Segrin (2003) found that age moderated the effect of social support on support messages. Utilizing a sample that included adults ranging in age from To date, only a few studies have examined how age moderates the effects of

generally do not develop the cognitive and social skills needed to produce and social skills. Consistent with this view, research indicates that youngsters among various support strategies, given their more limited linguistic, cognitive, to process these messages systematically. According to Clinton and Hancock, to differentiate among the supportive messages they receive diminished cognitive and social capacities (Antonucci, 1990), may be less able (Burleson, 1984; Ritter, 1979). Similarly, the oldest of adults, who may have highly sensitive support strategies until late childhood or early adolescence younger children, in particular, may not be able to appreciate differences evaluations of supportive messages may reflect differences in recipients' ability MacGeorge, 2006; Denton & Zarbatany, 1996). Thus, age differences in in sensitivity to the same extent as adolescents and adults (R. A. Clark & younger children do not discriminate among supportive messages that vary sophisticated comforting messages (Clinton & Hancock, 1991) and that Other studies suggest that age influences the ability to understand

Social Class

significant for the middle class than the working class (Bergin, Talley, & Hamer, to process supportive messages. R. A. Clark and MacGeorge (2006) found that by individuals in different socioeconomic classes may speak to the motivation 2003). As with sex, the importance placed on certain types of support behaviors the provision of emotional and esteem support is more salient and relationally moderates the effects of supportive messages. Some research suggests that Very few studies have examined whether social class (socioeconomic status)

social and cognitive abilities needed to produce highly sophisticated supportive sensitive to situational differences than the message evaluations of working-class contribute to the motivation and ability to process supportive messages; however, Gerris, 1992). Together, these findings suggest that socioeconomic status may messages (e.g., Applegate, Burke, Burleson, Delia, & Kline, 1985; Dekovic & studies report a positive correlation between socioeconomic status and the to process supportive messages. Consistent with this interpretation, numerous the message evaluations of the upper-middle-class participants were more as less helpful than did working-class children and adolescents; in addition, upper-middle-class children and adolescents viewed simple support messages future research should directly assess these proposed associations. participants. This finding implies that social class may be a marker of the ability

culture appears to affect motivation, and age impacts the ability to process these ability to process these messages systematically. Further, studies suggest that reveals that sex and socioeconomic class may affect either the motivation or the of the support recipient, moderate outcomes of support messages. Our review Demographic variables, including the sex, culture, age, and socioeconomic class through which these variables impact message outcomes. messages. Additional research needs to further specify the precise mechanisms

Supportive Messages Explaining Personality Moderators of the Effects of

orientation, perceived support availability, attachment style, depression, to process supportive messages below, these aspects of personality appear to affect the individual's motivation communication values, self-concept, and gender schematicity. As we suggest the effects of supportive messages, including affiliative need, locus of control Several aspects of the recipient's personality have been found to moderate

Affiliative Need

stress-buffering effects from enacted support than do individuals low in affiliative support (especially emotional support) during stressful times (Manne, Alfieri affirms that those with a high level of the affiliative need trait want to receive available from contact with relationship partners" (p. 158). Indeed, research is likely to increase the sensitivity of recipients to the interpersonal rewards need. C. A. Hill (1997) suggested that "[greater] dispositional affiliative need (the motivation or drive to be close to others during times of stress) report more C. A. Hill & Christensen, 1989) indicate that individuals high in affiliative need A series of studies by C. A. Hill and his colleagues (C. A. Hill, 1987, 1997;

> affiliative need tend to be more motivated to systematically process the support messages that they receive from others. Taylor, & Dougherty, 1999). Thus, individuals with a high level of dispositional

Locus of Control

and to process these messages systematically. Consistent with this view, the LOC; Lefcourt, 1982). Internals more often take responsibility for solving under the control of) either (1) the self and, more generally, individuals (an internal Locus of control (LOC) references the tendency to see events as caused by (or (Cummins, 1988; Lefcourt, Martin, & Saleh, 1984; Sandler & Lakey, 1982). externals generally do not benefit from the supportive messages that they receive stress-buffering effects of social support have been found largely for internals; motivated than externals to attend to the support messages that they receive producing their distress (Manne et al., 1999). Thus, internals should be more problems than do externals and believe that they can alter the circumstances LOC) or (2) external forces, God, powerful others, or luck or chance (an external

Perceived Support Availability

counterparts with low perceived support availability (e.g., Lakey & Cassady, support availability recall the support messages they receive better than do their several studies have discovered that people with high levels of perceived empathy or person-centeredness (Servaty-Seib & Burleson, 2007). In addition support messages more favorably than do people with low levels of perceived personality variable that influences how supportive transactions with others global perception that support will be accessible to them when needed (see messages based on their general level of perceived support availability, the A growing body of research reveals that people process and respond to support they receive. which may incline them to thoughtfully consider the support messages that availability have a greater expectation of receiving helpful support from others message content. In contrast, those with high levels of perceived support support from others and, thus, may be less motivated to carefully scrutinize support availability generally hold a lower expectation of receiving helpful the support messages that they receive. Persons with low levels of perceived of perceived support availability are more motivated to systematically process 1990; Lakey et al., 1992). These findings suggest that those with high levels & I. G. Sarason, 1992), especially when these messages exhibit high levels of Moineau, & Drew, 1992; Mankowski & Wyer, 1996; Pierce, B. R. Sarason, support (Kaul & Lakey, 2003; Lakey, McCabe, Fiscaro, & Drew, 1996; Lakey, people with high levels of perceived support availability evaluate standard will be interpreted and remembered" (p. 341). Several studies indicate that proposed that perceived support availability "operates in part as a cognitive review by Lakey & Lutz, 1996). Specifically, Lakey and Cassady (1990)

Attachment Style

style promotes greater attention to and processing of supportive interactions. with non-secure attachment styles; this result implies that a secure attachment better memories for supportive interactions that they observed than did those view, Miller (2001) reported that persons with secure attachment styles had they receive than those with non-secure attachment styles. Consistent with this motivated (and prone) to systematically process the support messages that messages evaluated. Hence, persons with secure attachment styles seem more comforting messages varied as a function of the person-centered quality of the messages than those with anxious and/or avoidant attachment styles. Moreover, with securely attached persons generally responding more favorably to these attachment style influences responses to support messages (Collins & Feeney, Jones (2005) found that the influence of attachment style on evaluations of 2004; Herzberg et al., 1999; Larose et al., 2001; Lemieux & Tighe, 2004), (Asendorpf & Wilpers, 2000; Ognibene & Collins, 1998). Thus, not surprisingly, as less available more likely have anxious and/or avoidant attachment styles more likely have secure attachment styles; whereas, those who see support with attachment style.7 Those who consider support to be generally available Global perceptions of perceived support availability are closely associated

gain less from them than do those with low levels of cynicism. they receive and, therefore, process these messages less systematically and mistrust others) are less motivated to reflect on the supportive messages that these findings is that those with high levels of cynical hostility (who generally group who did not receive supportive messages). A plausible explanation for situation; whereas, those low in cynicism did benefit from supportive messages attachment style) did not benefit from social support provided in a stressful trait of cynical hostility (which constitutes a key component of the avoidant For example, Lepore (1995) determined that those high in the personality (exhibiting lower levels of cardiovascular reactivity than those in a control for personality traits conceptually linked to particular attachment styles. Results similar to those obtained for attachment style have been observed

Depression

they receive from others, leading them to view such messages as less helpful may be less motivated to systematically process the supportive messages that (Hollander & Hokanson, 1988; Shirk et al., 1997) find that depressed persons than do non-depressed individuals. Consistent with this reasoning, studies & Leppin, 1992; Vinokur, Schul, & Caplan, 1987). Thus, depressed individuals inversely associated with the perceived availability of support (e.g., Schwarzer Segrin, 1998; Weary, 1990). Indeed, some research indicates that depression is their distressed states or the perceived causes of those states (see reviews by Depressed individuals often believe that others cannot help them cope with

> (see also review by Gotlib, Roberts, & Gilboa, 1996). reducing the attentional resources available for information processing tasks (2005) argued that depression negatively affects cognitive performance by also reduce the ability to process such messages; Gotlib, Yue, and Joormann the motivation to systematically process supportive messages, depression may counterparts. Though these results fit with the notion that depression reduces evaluate standardized support messages less positively than their non-depressed

Communication Values

to a lesser extent. worse forms of these messages than people who value emotional support skills messages, and, thus, they should discriminate more sharply between better and prioritize emotional support skills will be more motivated to process supportive less value on supportive skills. It seems reasonable to assume that people who more positively, and LPC messages more negatively, than do people who place studies (Burleson, in press; Study 1; Burleson & Mortenson, 2003) found that on the skill of providing support, especially emotional support. Two recent supportive communication value is the importance (i.e., value) that people put Communication values reflect an aspect of personality captured by the importance that individuals place on various communication skills; hence, people who highly value supportive skills evaluate HPC comforting messages

systematically process supportive messages that those who highly regard solace are comparatively more motivated to 2002; Mortenson et al., 2006). This pattern of results coincides with the notion on other goals for support situations (Burleson & Mortenson, 2003; Kunkel, in comparison to those who place less value on solace and/or greater value discriminate more sharply between better and worse forms of these messages regard the goal of providing solace as particularly important clearly value problems, and escaping from the other's negative emotional state. People who support situations, including providing solace, solving problems, dismissing 2002) have identified several goals that potential helpers might pursue in situations. Researchers (Barbee & Cunningham, 1995; Burleson & Gilstrap, the provision of emotional support. Those who value the provision of solace the goals that individuals indicate they would be likely to pursue in support A second method of assessing communication values involves identifying

Self-concept

emotional, kind, warm, gentle, and sensitive to the feelings of others; people of the self-concept—people's self-definitions as expressive and as instrumental. who consider themselves to be highly instrumental believe themselves to be People who perceive themselves as highly expressive believe themselves to be Responses to supportive messages appear to be influenced by at least two aspects

to systematically process LPC and HPC messages than low expressives and consistent with the our predictions that (1) high expressives are more motivated negatively evaluated LPC messages, than did low expressives. These results are whereas, high expressives more positively evaluated HPC messages, and more positively evaluated MPC comforting messages than did low instrumentals; person centeredness. Both of these studies revealed that high instrumentals more instrumentals might be expected to evaluate MPC messages more favorably definitions, high expressives might be expected to evaluate HPC comforting expressiveness and instrumentality.8 Given the centrality of affect in their selfmessages than are low instrumentals. (2) that high instrumentals are more motivated to systematically process MPC instrumental orientations on evaluations of comforting messages that differ in MacGeorge, Graves, et al., 2004) have examined the influence of expressive and than low instrumentals. To date, two studies (Burleson, in press, Study 2; expressives. In contrast, given their focus on solving practical problems, high messages more positively, and LPC messages less positively, than to low expressive orientation with femininity; an instrumental orientation is typically independent, active, decisive, confident, and persistent (Spence & Helmreich, linked with masculinity (Prentice & Carranza, 2002; Spence & Buckner, 1978). In contemporary American society, individuals often associate an 1995), although men and women vary widely in their self-perceived degrees of

Gender Schematicity

and respond negatively to "gender-bending" conduct (e.g., Markus, Smith, of masculinity and femininity. Gender schematics hold specific, comparatively & Moreland, 1985). Thus, high gender schematics may often use sex of the based schemata in the interpretation and evaluation of others' behaviors, rigid expectations for men's and women's behavior, readily employ genderreliance on and investment in culturally prevalent (i.e., traditional) conceptions One such variable is gender schematicity, a trait that reflects an individual's decreasing the likelihood that these messages receive systematic processing. Some personality variables may moderate the effects of support messages by helper as a cue that guides the evaluation of supportive behavior.

schematicity appear to process comforting messages more systematically; they reliant on it than are less schematic women. In contrast, women low in gender good support" heuristic. Highly gender-schematic women appear to be more findings suggest individual differences in reliance on the "women provide not differ in their responses to the message as a function of helper sex. These attributed to a male helper; in contrast, women low in gender schematicity did comforting message when it was attributed to a female helper than when it was reported that highly gender-schematic women responded more favorably to a respond more to the content of the messages used and less to the environmental Consistent with this view, Holmstrom, Burleson, and Jones (2005)

> support when it was available to them, thus diminishing their appreciation of cue of the helper's sex. Somewhat similarly, W. G. Hill and Donatelle (2005) Kruglanski, 1994). likelihood of processing them through less elaborate means (e.g., Webster & reduce the motivation to process messages systematically and increase the that indicates certain personality traits (e.g., the need for cognitive closure) the benefits of supportive relationships. These findings coincide with research found that gender-schematic men exhibited a lower capacity to recognize

Summary

should be evaluated in future research. (Cacioppo & Petty, 1982) and self-esteem (Nadler, 1986), may also affect the support messages. Several other personality factors, such as need for cognition messages, although this variable potentially impedes the ability to process also appears to reduce the motivation to systematically process supportive motivation to process support messages in a systematic manner. Depression the outcomes of supportive messages by increasing (or decreasing) the style, communication values, self-concept, and gender schematicity) impact affiliative need, locus of control, perceived support availability, attachment motivation to systematically process supportive messages. These possibilities Existing research affirms the notion that several personality traits (including

Supportive Messages **Explaining Cognitive Moderators of the Effects of**

of supportive messages, including interpersonal cognitive complexity and ability to systematically process supportive messages. communicative competence. We suggest that these cognitive factors affect the Research demonstrates that several cognitive variables moderate the effects

Cognitive Complexity

schemes for processing social information and, thus, possess more advanced perceivers have more differentiated, abstract, and organized constructs or ability to represent and process social information; cognitively complex Consistent with this notion, Burleson and Samter (1985b) discovered that process the support messages that they receive than less complex recipients complexity and the ability to generate sophisticated, helpful support messages social perception skills than do less complex perceivers (Burleson & Caplan, Interpersonal cognitive complexity is a stable, individual difference in the Thus, cognitively complex recipients also should be better able to systematically (see reviews by Applegate, 1990; Burleson & Caplan, 1998; Coopman, 1997). 1998). Considerable research suggests a positive relationship between cognitive

their more sophisticated forms—than are less complex perceivers. messages more deeply and, thus, get more from these messages-particularly complexity perceivers involving those exposed to HPC messages. These findings more information about the message source from comforting messages than Basden-Murphy (1989) provided evidence that complex perceivers acquired positively than did less complex perceivers. Similarly, Samter, Burleson, and cognitively complex perceivers evaluated HPC comforting messages more imply that complex perceivers are able to spontaneously process supportive less complex perceivers, with the greatest difference between low- and high-

Communicative Competence

offered by high-skill facilitators than do low-skill disclosers. paired with a high-skill facilitator than when paired with a low-skill facilitator. a systematic manner than are those with lower levels of CC. Anderson, Carson, with high levels of CC should be better able to process supportive messages in These results suggest that high-skill disclosers gained more from the support however, high-CC disclosers reported significantly greater positive affect when level of the facilitator did not influence the affect of low-CC disclosers; painful event with either a highly skilled or low-skilled facilitator. The skill them to complete a disclosure task in which they discussed an emotionally Anderson et al. tested participants for social skill (CC) and subsequently asked achieve desired communicative goals effectively, efficiently, and appropriately Darchuk, & Keefe (2004) generated results consistent with this hypothesis. (Parks, 1994; Wilson & Sabee, 2003). As more skilled communicators, those Communicative competence (CC) refers to an individual's general ability to

the ability to systematically process supportive messages and, hence, should be 2001), and emotional intelligence (Brackett et al., 2004)—may also influence (Barrett, Tugade, & Engle, 2004), mental retardation (Lunsky & Benson, systematic manner. Other cognitive factors—such as working memory capacity and CC, affect a support recipient's ability to process support messages in a Research indicates that certain cognitive factors, including cognitive complexity explored in future research

Supportive Messages Explaining Situational Moderators of the Effects of

quality) of the relationship between the helper and the recipient, the sex of the supportive messages, including the recipient's need for support, the status (or helper, and features of the helper's message such as its timing and content Several features of the communicative situation moderate the effects of

> Next, we address how the effects of these contextual features can be explained through our dual-process framework.

Recipient's Need for Support

support strategy on recipient marital satisfaction were stronger for those process supportive messages more deeply when their need for support physical condition). This latter finding, in particular, suggests that recipients recipients with a greater need for support (i.e., those in poor psychological and buffering or overprotection). Most important, the effects for type of spousal employed less helpful support strategies (i.e., those reflecting protective strategies (i.e., those reflecting active engagement) and lower when spouses intensifies. cancer patients was higher when their spouses used more helpful support 2000; Kuijer, Buunk, & Ybema, 2001) found that the marital satisfaction of with this prediction, Hagedoorn and colleagues (2000; also see Kuijer et al., systematically process supportive messages received from others. Consistent intensity of negative affect). Theoretically, as stressors or negative affect states aspects of the recipient's need or desire for support (e.g., severity of the stressor, One set of factors that moderates the effects of supportive messages includes become more severe, so should the desire for support and the motivation to

supportive messages systematically. confronting the serious problem discriminated more sharply between LPC and car towed and having to pay \$350 in fines and fees to get the car released); results suggest that problem severity increased the motivation to process the HPC comforting messages than did those confronting a mild problem. These varied in level of person-centeredness. Analyses revealed that participants the participants subsequently read and evaluated six comforting messages that parking ticket) or a more serious version of the problem (e.g., getting one's that they experienced either a mild version of a problem (e.g., receiving a \$25 More recently, Burleson (in press, Study 3) asked participants to assume

preclude most experimental assessments of extreme emotional upset on message of the recipient's emotional state becomes less extreme. Ethical considerations cases, supportive messages likely have little impact, at least until the intensity be "paralyzed by fear," "overcome with grief," or "consumed by anger." In such (and unable) to process supportive messages in a systematic fashion; they may However, at extremely high levels of emotional upset, persons may be unmotivated motivated to scrutinize supportive messages that they receive for helpful content. In contrast, those experiencing moderate-to-strong upset are likely to be quite consider the content of any supportive messages that they happen to receive mild degree of irritation or upset may not have much motivation to thoughtfully messages. As Burleson's results (in press) suggest, persons experiencing only a emotional intensity) has a curvilinear effect on the motivation to process supportive We suspect that problem severity (and related factors such as stress and

from field studies or retrospective self-reports. processing, but evidence relevant to its effects on processing might be obtained

Relationship Status

with a decisional heuristic for processing messages in support situations (e.g. Another set of situational factors that moderates the effects of supportive messages includes the status (e.g., acquaintance versus friend) or quality (i.e., of a relationship is easily accessible from memory, this cue exerts a stronger Garnier, Gano-Phillips, and Osborne (1995) demonstrated that, when the status indicates that relationship status functions as an environmental cue associated when attributed to a close friend than to a casual acquaintance. This finding and the recipient. For example, R. A. Clark et al. (1998) determined that recipients closeness, intimacy, positivity) of the relationship between the support provider from memory.9 influence on responses to supportive behavior than when it is less accessible "close friends provide helpful support in times of need"). Indeed, Fincham, perceived standard supportive messages as more helpful and comforting

as particularly intimate or close (Cutrona, Cohen, & Igram, 1990; Dakof & Taylor efforts is greater when messages come from providers that the recipient perceives In addition, numerous studies provided evidence that satisfaction with support MacGeorge, & Lucchetti, 2004; Uno, Uchino, & Smith, 2002; Young, 2004) processing of supportive messages (e.g., Christenfeld et al., 1997; Knobloch relationship status constitutes an environmental cue associated with the heuristic 1990; Frazier, Tix, & Barnett, 2003; Hobfoll, Nadler, & Leiberman, 1986). Several other studies have reported results consistent with the notion that

of supportive messages, at least under certain circumstances perceptions of the quality of the mother-daughter relationship. In sum, al. (1992) reported that daughters' evaluations of standard support messages relationship status can serve as a cue that promotes low-elaboration processing attributed to their mothers were substantially influenced by the daughters the individual's response to messages received in support situations. Pierce en (e.g., "mother cares about me" or "mother doesn't care about me") that guides (e.g., one's mother) can act as an environmental cue that activates a heuristic of their specific significant relationships" (p. 1028). Thus, a particular persor "develop sets of expectations about the availability of social support for each Pierce, I. G. Sarason, and B. R. Sarason (1991) suggested that individuals

Sex of Helper

moderates the outcomes of supportive messages. For example, several al., 1987; Uno et al., 2002) determined that participants respond more favorably experiments using identical, standardized messages (Glynn et al., 1999; Samter et Sex of the support provider constitutes another feature of the situation that

> employ such messages (Burleson, Holmstrom, & Gilstrap, 2005). comforting distressed males elicit less favorable reactions than women who elaboration. Other research has shown that men who use HPC messages when because the more upsetting situation motivated a high, rather than a low, level of difference in message evaluations due to the sex of the helper, presumably (and, therefore, were presumably engaged in a low level of message elaboration). attributed to a male helper but only when participants confronted a mild upset comforting messages attributed to a female helper more positively than those helpers. Burleson (in press, Study 3) found that participants evaluated standard to these messages when they are attributed to female helpers as opposed to male When participants confronted a more serious upset, Burleson did not find any

processing supportive messages, at least under certain conditions. finding that people respond more favorably to standard support messages from existence of the "women provide sensitive support" heuristic; the experimental Oxley, Dzindolet, & Miller, 2002). Collectively, these findings underscore the in need (e.g., Basow & Rubenfeld, 2003; Goldsmith & Dun, 1997; MacGeorge, numerous studies document that women tend to provide more sophisticated expressive, and emotionally supportive (Eagly, 1987; Feingold, 1994). Third, have found that, compared to men, women are more nurturing, "tender minded," support (Ashton & Fuehrer, 1993; Barbee et al., 1993; Prentice & Carranza, 2002; expectation that women will be ready and willing providers of warm, nurturing such a heuristic. First, research provides support for a broadly shared cultural female rather than from male helpers suggests the use of this heuristic when Gillihan, Samter, & Clark, 2003; MacGeorge, Graves, et al., 2004, Study 1; forms of support than men (e.g., solace, face support, HPC comforting) to those Wood, 1994). Second, and consistent with this cultural stereotype, many studies better support than men"). Several lines of evidence affirm the existence of cue linked to the heuristic "women provide good support" (or "women provide Together, these results suggest that sex of the helper serves as an environmental

Timing or Sequencing of Support Messages

to attend to advice and, thus, process these messages more systematically at following the provision of emotional support (Feng, 2006, Study 3; Jacobson, & MacGeorge, 2000; MacGeorge, Feng, et al., 2004) or when it is offered al., 1992), they respond more positively when advice is solicited (Goldsmith for messages that give informational support (i.e., advice; Goldsmith & Fitch, if provided at the wrong time" (p. 255). This conclusion holds especially true seen as helpful by the recipient if provided at the right time and as unhelpful the "same behavior, offered by others and intended to be supportive, may be 1986). One explanation for these results is that recipients are more motivated placement in the supportive interactional episode; as Jacobson (1986) observed, The effects of supportive messages are moderated by their timing or sequential 1997). Though recipients often evaluate advice negatively (Dunkel-Schetter et

advice, and respond more favorably to it (assuming that advice contains good more likely process that advice in a systematic manner, get more from that coping. In sum, when recipients want advice and are ready to receive it, they on judgments of advice quality, implementation intention, and facilitation of content; Feng, 2006, 2007; Feng & MacGeorge, 2006; MacGeorge, Feng, et moderated the effects of the sequential placement of advice in an interaction found that individual differences in the motivation to process message content and respond more favorably to it, assuming the advice contains good content the advice that they receive in a systematic manner, get more from that advice, and are ready to receive it (i.e., they are motivated), they more likely process particular points in the support episode (Feng & MacGeorge, 2006; Parkes, This explanation receives support from recent research by Feng (2007), who 1982). Simply put, extending from Feng (2006), when recipients want advice

Message Content

of coping (e.g., L. F. Clark, 1993; Smyth & Pennebaker, 1999), this sort of about the upsetting situation. from expressing and exploring their thoughts and feelings (by telling recipients in improved affect. In contrast, LPC comforting messages discourage recipients should engender functional reappraisals of these situations and, thereby, result systematic thinking about the nature and causes of the distressful situation to appraisal theories of emotion (e.g., Lazarus, 1991) and related theories upsetting situations (i.e., engage in systematic thought about them). According recipients to articulate and elaborate their thoughts and feelings about possibly, other highly sensitive forms of supportive communication) encourage Specifically, these theorists maintain that HPC comforting messages (and, message may itself serve to encourage (or discourage) systematic processing Burleson and Goldsmith (1998) suggested that the content of a supportive of support messages includes certain features of these messages. In particular, how they should act and feel) and, thereby, undermine systematic thinking An understudied factor in the support situation that may moderate the effects

discussion with the confederate than participants exposed to less person-centered and cognitive mechanism (e.g., causal analysis) words during the course of the HPC messages utilized more positive emotion words, negative emotion words, subsequently transcribed. The researchers found that participants exposed to and confederates (which generally lasted about five minutes) were recorded and person-centered comforting messages; the interactions between participants experience to confederates who responded with low, moderate, or highly upsetting situation. Jones and Wirtz directed participants to disclose an upsetting to HPC versus LPC comforting messages encourages more thought about an messages. These findings suggest, then, that the content of a supportive message Recently, Jones and Wirtz (2006) provided direct evidence that exposure

> situation, the stressful event, and even support messages themselves. may play an important role in motivating systematic thinking about the support

Summary

of supportive messages encompass the recipient's mood state (Forgas, 2001 status of the relationship with the helper, appear to serve as cues that foster need for support. Other situational variables, such as sex of the helper and content, the timing or sequence of the supportive message, and the recipient's As shown above, several aspects of the support situation appear to influence attractiveness or similarity of the helper (Suitor & Pillemer, 2000). 1991), environmental distracters that disrupt attention (Petty & Brock, 1981). Petty, Schumann, Richman, & Strathman, 1993; Schwarz, Bless, & Bohner. circumstances). Additional situational factors that may influence the processing reliance on heuristics when processing supportive messages (at least in some the motivation to process supportive messages, including features of message the privacy of the setting (Burleson, Samter, et al., 2005), and the perceived

CONCLUSION

elaboration from recipients. The degree of message processing, in conjunction acting as cues that trigger certain low elaboration processes such as heuristics interpreted as affecting message outcomes either through their influence on in the ways that they do. We demonstrated that these moderators can be cognitive, and situational factors moderate the effects of supportive messages jointly determine the outcomes of the supportive episode. Application of with the qualities of the message and features of the interactional situation, supportive messages. As with dual-process approaches to persuasive messages, process analysis of message reception provides an integrative framework provides the first unified explanation for their effects. We argue that a dualcomprehensive synthesis of research findings regarding these moderators and the recipient, the helper, and the situation. Our review comprises the first these messages are moderated (sometimes substantially) by properties of less helpful supportive messages, other research indicates that the effects of variables serve within our dual-process framework. the ability and/or motivation to systematically process these messages or by this theory enabled us to explain why numerous demographic, personality, this theory maintains that support messages receive more or less cognitive that explains how and why diverse moderating factors affect the outcomes of Though much research has identified the general characteristics of more and Table 9.1 summarizes our review, indicating the roles that different moderating

the existing findings about moderators of the effects of supportive messages The dual-process framework enabled us to organize and explain most of

Table 9.1 Variables Shown to Moderate Effects of Supportive Messages

Individual factors influencing the motivation to process systematically Reriable Citations Affiliative need Affiliative need Affiliative need Affiliative need Affiliative need Affiliative need Communication values Ruleson, 1997; Hill & Christensen, 1989 Attachment style Communication values Burleson, in press; Burleson & Mortenson, 2003; Kunkel, 2002; Mortenson et al., 2006; Burleson & Mortenson, 2003; Kunkel, 2002; Mortenson et al., 2006; Burleson & Mortenson, 2003; Miller, 2001 Mortenson et al., 2006; Burleson & Mortenson, 2003; Locus of control Lakey, 1982 Perceived support availability Kaul & Lakey, 2003; Lakey & Cassady, 1996; Lakey et al., 1997; Cassady, 1996; Lakey et al., 1995; Lakey et al., 1992; Manikowski & Wyer, 1996; Pierce et al., 1992; Sarraey-Seib & Burleson, 2007 Perceived support recipient Dones & Burleson, in press; MacGeorge, Graves, et al., 2004 Sex of support recipient Jones & Burleson, 1997; Kunkel & Burleson, 1999; Jones & Wirtz, 2006 Sex of support Burleson in press; MacGeorge, Graves, et al., 2004 Sex of helper Burleson & Samter, 1985b; Carels & Baucom, 1999; Jones & Wirtz, 2006 Burleson, 1995; Burleson, 1995; MacGeorge, 2000; MacGeorge, et al., 2000; MacGeorge, et al., 2000; MacGeorge, et al., 2000; MacGeorge, et al., 2000 Placement Message timing or sequential Jones & Wirtz, 2006 Burleson, 1995; Samiter et al., 2000; Samiter et al., 2000; MacGeorge, et al., 2000 Placement Message timing or sequential Jones & Wirtz, 2006 Burleson, 1995; Samiter et al., 2000; Support in times of need." Christenfield et al., 1995; R. A. Clark et al., 1998; Chooleobe, et al., 2004; Pierce et al., 1987; Uno et al., 2002; Young, 2004 Sex of helper Doctistonal decision		And Description of the Party of
style style ion values ipport recipient pport availability pport availability pport availability pport availability ctors influencing the motive tent ing or sequential ad for support ctors influencing the ability ive competence ive competence status status	Individual factors influencing the motiv	ation to process systematically
style style ition values maticity tarol rt recipient rt recipient rt recipient ctors influencing the motiv tent ing or sequential ing or sequential ind for support ctors influencing the ability mplexity ive competence status status	Variable	Citations
style gport recipient pport recipient maticity ttrol rt recipient rt recipient rt recipient rt recipient ctors influencing the motiv tent ing or sequential ad for support ctors influencing the ability mplexity ive competence status status	Affiliative need	Hill, 1987, 1997; Hill & Christensen, 1989
ion values ipport recipient maticity ttrol rt recipient rt recipient rt recipient ctors influencing the motive tent ing or sequential ad for support ctors influencing the ability ive competence ive competence status	Attachment style	Collins & Feeney, 2004; Herzberg et al., 1999; Jones, 2005; Larose et al., 2001; Lemieux & Tighe, 2004; Miller, 2001
maticity ttrol pport availability pport availability cotors influencing the motive tent ing or sequential ad for support cotors influencing the ability inplexity ive competence al cues tied to decisional he status	Communication values	Burleson, in press; Burleson & Mortenson, 2003; Kunkel, 2002; Mortenson et al., 2006
maticity ttrol pport availability pport availability rt recipient rectors influencing the motivitent ing or sequential ad for support ctors influencing the ability mplexity ive competence al cues tied to decisional had a cues tied to decisional had status	Culture of support recipient	Burleson et al., 2006; Burleson & Mortenson, 2003; Mortenson et al., 2006; Samter et al., 1997
maticity ttrol pport availability pport availability rt recipient rt recipient tent ing or sequential ed for support ctors influencing the ability mplexity ive competence ive competence status	Depression	Hollander & Hokanson, 1988; Shirk et al., 1997
pport availability pport availability ctors influencing the motive tent ing or sequential ad for support ctors influencing the ability mplexity ive competence al cues tied to decisional heal cues tied to decisional heal status	Gender schematicity	Hill & Donatelle, 2005; Holmstrom et al., 2005
pport availability rt recipient rectors influencing the motive tent ing or sequential ed for support ctors influencing the ability mplexity ive competence al cues tied to decisional heal cues tied to decisional heal	Locus of control	Cummins, 1988; Lefcourt et al., 1984; Sandler & Lakey, 1982
rt recipient cotors influencing the motivent tent ing or sequential ed for support cotors influencing the ability mplexity ive competence al cues tied to decisional he status	Perceived support availability	Kaul & Lakey, 2003; Lakey & Cassady, 1990; Lakey et al., 1996; Lakey et al., 1992; Mankowski & Wyer, 1996; Pierce et al., 1992; Servaty-Seib & Burleson, 2007
rt recipient tent ing or sequential ad for support ctors influencing the ability mplexity ive competence al cues tied to decisional he status	Self-concept	Burleson, in press; MacGeorge, Graves, et al., 2004
tent ing or sequential ad for support ctors influencing the ability mplexity ive competence al cues tied to decisional h status	Sex of support recipient	Burleson & Samter, 1985b; Carels & Baucom, 1999; Jones & Burleson, 1997; Kunkel & Burleson, 1999; MacGeorge, Graves et al., 2004b; Samter et al., 1997
ing or sequential ad for support ctors influencing the ability inplexity ive competence al cues tied to decisional h status	Situational factors influencing the moti	vation to process systematically
ing or sequential cd for support ctors influencing the ability mplexity ive competence al cues tied to decisional he status	Message content	Jones & Wirtz, 2006
ed for support ctors influencing the ability mplexity ive competence al cues tied to decisional he status	Message timing or sequential placement	Feng, 2006; Goldsmith & MacGeorge, 2000; MacGeorge, Feng, et al., 2004
mplexity ive competence ive competence al cues tied to decisional has status	Recipient need for support	Burleson, in press; Hagedoorn et al., 2000; Kuijer et al., 2001; Kuijer et al., 2000
ive competence al cues tied to decisional h	Individual factors influencing the abilit	v to process systematically
ive competence al cues tied to decisional h	Cognitive complexity	Burleson & Samter, 1985b; Samter et al., 1989
al cues tied to decisional h	Communicative competence	Anderson et al., 2004
al cues tied to decisional h	Social class	Clark & MacGeorge, 2006
status	Environmental cues tied to decisional h	euristics
status	Сие	Decisional Heuristic and Citations
·	Relationship status	"Close others provide helpful support in times of need." Christenfeld et al., 1997; R. A. Clark et al., 1998; Fincham et al., 1995; Knobloch et al., 2004; Pierce et al., 1992; Uno et al., 2002; Young, 2004
	Sex of helper	"Women provide good support." Burleson, in press; Burleson, Holmstrom, et al., 2005; Glynn et al., 1999; Samter et al., 1987; Uno et al., 2002

supportive messages work as they do. occasions. Of course, our framework is not the only possible one for explaining and it exhibits greater integrative power, thereby enhancing our understanding we encourage other scholars to propose alternative explanatory frameworks why diverse factors moderate the effects of supportive messages. Indeed, of why support strategies affect particular people as they do on particular dual-process theory of supportive message outcomes is more parsimonious, for these moderators; doing so will only deepen our understanding of why fragmented, mostly explained through a host of unconnected mechanisms. The within a single, cohesive account. Previously, these findings were diverse and

cognitive variables (e.g., emotional intelligence) and other contextual factors to systematically process supportive messages may be impacted by additional privacy of the setting). Similarly, this model suggests that the recipient's ability attractiveness of helper, stage or phase of the recipient's grieving process, closure, self-esteem) and several other contextual factors (e.g., physical several additional personality traits (e.g., need for cognition, need for cognitive research on factors that may influence the processing and effects of supportive process approach provides a heuristic theoretical framework for subsequent (e.g., attention distraction, information processing demands). Thus, this dualthat the recipient's motivation to systematically process may be influenced by moderators of supportive message outcomes. For example, this model proposes process framework generates a rich set of predictions about other potential In addition to synthesizing and integrating existing findings, the dual-

another, quite distinct domain of communication, this review will hopefully exclusively with respect to persuasive communication (see Chaiken & Trope, communication. Up until now, dual-process models have been developed almost utility of a dual-process approach for analyzing the outcomes of supportive supportive messages). More generally, our review reveals the applicability and as a factor that influences degree of elaboration. This attribute represents an supportive message content as moderators of message outcomes. That is, this contribute to the development of more general theories of message reception general applicability (i.e., to persuasive and informative messages as well as important extension of dual-process approaches—one that stands to have more theory positions message content not only as an object to be processed but and outcome. 1999). By demonstrating the fruitfulness of the dual-process approach with Of particular note, the dual-process theory enabled us to treat aspects of

is borne out by empirical research, our theory may contribute to improving the strategies to be used on various occasions with various recipients. If this potential to generate an empirically sound basis for prescribing the types of support hold considerable pragmatic potential. In particular, this theory has the potential training and effectiveness of the laypersons, therapists, counselors, pastors, and Finally, we believe that our review and the dual-process theory that informed it

support groups (e.g., Helgeson et al., 2000) and support interventions (e.g., simple, brief messages are likely to be ineffective—or even counterproductive. networks (Cutrona & Cole, 2000). Gottlieb, 2000), and in the development of more helpful and supportive social practice (e.g., Hullett, McMillan, & Rogan, 2000), in the design of community in various forms of clinical practice (e.g., Greenberg, 1993) and professional that the principles guiding this approach to support provision can be incorporated centered and contextually sensitive approach to providing support. We believe Ultimately, our analysis reiterates that helpers should implement a recipientindicates that, when longer more complex support messages are needed and considerable cognitive processing to yield desirable effects. Our review further (and, perhaps, more effective) than longer, more complex messages that require our review suggests when simple, brief support messages may be just as effective other formal and informal helpers who provide support to others. For example

connections and linkages implied by our theory, the powerful dual-process analysis, or structural equation modeling. Without careful tests of specific mediators (e.g., elaboration) through the use of hierarchical regression, path and motivation to process support messages; they should also test proposed designing studies that incorporate variables hypothesized to impact the ability particular sets of circumstances. Researchers could accomplish this task by al., 2004; Todorov et al., 2002). Hence, future theoretical developments and on cognitions and behaviors through high-elaboration processes (Petty et sometimes functioning as a cue, and sometimes functioning as an influence variables may serve multiple roles, sometimes influencing processing mode, important to underscore a fundamental claim of dual process models—many variables will help reduce this ambiguity. In this context, however, it is so by affecting processing ability, processing motivation, or both of these. effects of supportive messages (e.g., recipient sex, recipient depression) do (Stiff, 1994; Stiff & Boster, 1987). framework will quickly devolve into a morass of non-falsifiable propositions research need to pinpoint the precise role served by particular variables in Research designs that employ tests for different sets of potential mediating we are presently unable to specify whether certain factors that moderate the Several limitations in our explanatory efforts should be noted. For example,

subjected to direct test. We maintain that the moderating effects of demographic, provide these tests by examining the mediating effects of processing depth messages. We are currently engaged in a program of research designed to see Petty & Cacioppo, 1986) mediates the effects of moderators on supportive processing depth (as assessed by thought listing, reaction time, or self-reports; direct tests of our claims need to examine the extent to which elaboration or occur because these factors affect the processing of supportive messages. Thus, personality, cognitive, and situational factors on supportive message outcomes variables affect the outcomes of supportive messages is that it has not yet been The major limitation with our dual-process analysis of how moderating

> effects under various conditions with diverse groups of people. cognitive complexity). This empirical work should lead to refinements in our analysis and a better understanding of how supportive messages produce their cognition) and those that have received only limited attention thus far (e.g., previously examined with regard to supportive communication (e.g., need for with regard to several moderators, including several potential moderators not

disciplinary boundaries and could potentially influence theory building and central to many domains of communication research. Our review also crosses in everyday life is important for scholars, practitioners, and everyday social among other areas. Building a better understanding of supportive processes practice in counseling, social cognition, message processing, and epidemiology, for understanding an otherwise fragmented set of findings within an area Limitations notwithstanding, the current review offers a heuristic framework

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NOTES

- 1. The contingent nature of the effects of supportive messages suggest that, like theoretically sophisticated and empirically valid rhetoric of support. persuasion, the provision of support is an art that would be usefully informed by a
- Most studies examining properties of more and less helpful messages have focused coping with mild upsets. severe emotional upset. Little research to date has examined supportive behavior on contexts where the recipient is (or appears to be) experiencing moderate to found helpful in contexts of moderate and severe upsets are equally helpful in in the context of mild upset or has sought to determine whether the message forms
- 'n A rather different effort to apply the logic of the dual-process approach to therapy development or extension of this model has occurred in the intervening years. and counseling was presented more than 20 years ago by Petty et al. (1984). Little
- Multiple mechanisms exist through which the communicative effects of helpers the use of heuristics. In future work, we plan to explore systematically multiple mechanisms that generally require low levels of elaboration, distraction and can foster affect change in distressed recipients. Here, we focus on one mechanism mechanisms of affect change. that requires a high degree of cognitive elaboration-reappraisal-and two

- ÿ Of course, it remains important for helpers to avoid using minimization strategies upset; as numerous studies show, clumsy efforts at providing support can make things worse rather than better (e.g., Barbee et al., 1998; S. L. Clark & Stephens, and other invalidating behaviors that have been found to exacerbate the recipient's 1996; Hays et al., 1994).
- on extending the dual-process theory of supportive message outcomes should et al., 2004; Todorov et al., 2002). We do not discuss this potential function of Readers familiar with dual-process theories of persuasive message processing through this biasing function. investigate the possibility that moderators of message effects exert their influence this function in the context of supportive communication, and few of the extant moderating factors here as, to date, we discovered no efforts directed at examining bias both the valence and outcome of message processing (for details, see Petty will recognize that variables can serve a third function in these models—they can findings appear consistent with this function. Of course, future research focused
- Attachment theory is generally attributed to Bowlby (1969, 1973) who observed emotional reactions. Ainsworth and her colleagues (1978) subsequently provided others but is apprehensive that others will not share this feeling. avoidant style refers to difficulty in trusting other people and a general reluctance somewhat dependent on others, and do not often worry about abandonment. The attachment style are comfortable with intimate relationships, enjoy becoming described attachment along these same three dimensions: Individuals with a secure a three-category system for identifying the primary attachment style of an infant to get close. Finally, the anxious/ambivalent individual desires to be close with Applying this theory to adult romantic relationships, Hazan and Shaver (1987) based on the consistency with which his or her primary caregiver attended to needs that, when separated from their primary caregiver, infants displayed diverse
- Several scholars (e.g., Bem, 1974; Spence & Helmreich, 1978) advocate using items MacGeorge, Graves, et al., 2004); thus, they appear to be less measures of gender correlated with biological sex and other measures of gender (Burleson et al., 2003; gender-role orientation. These measures, however, have often been only moderately tapping self-perceptions of expressiveness and instrumentality as assessments of than of personality traits that may be manifest in members of both sexes
- 9 supportive behaviors of their wives (e.g., "My wife provides good support") This result was present only for husbands but not for wives, suggesting that some systematically regardless of their relationship attributions however, wives may be more motivated or able to process support messages Consistent with research on sex differences in support message evaluations, men may use a heuristic pertaining to general relationship satisfaction to judge

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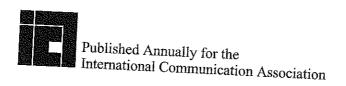
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Christina S. Beck (Ph.D., University of Oklahoma, 1992) is Professor in the School of Communication Studies at Ohio University. In addition to editing Communication Yearbook, she contributes to Journal of Health Communication: International Perspectives as book review editor and serves on the editorial boards of four communication journals. She has authored or co-authored two award-winning books on health communication, Communicating for Better Health: A Guide Through the Medical Mazes (2001) and Partnership for With Sandra Ragan and Athena duPre), and numerous journal articles and invited book chapters. She also co-edited Narratives, Health, and Healing: Communication Theory, Research, and Practice (2005) and The Lynching of Language: Gender, Politics, and Power in the Hill-Thomas Hearings (1996). Her research interests span the areas of health communication, language and social interaction, and mass communication.

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