

Deliver Us from Evil:

The Effects of Mortality Salience and Reminders of 9/11 on Support for President George W.

Bush

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Editor's Notes: This manuscript has been supplemented with an additional study comparing 2004 Democratic Party Presidential Candidate John Kerry to President George W. Bush with the results that under control conditions, Kerry has more support than Bush, but following a reminder of death Bush bests Kerry.

This manuscript currently is under review and should not be quoted or disseminated without permission of the authors

Abstract

According to terror management theory (J. Greenberg, S. Solomon, & T. Pyszczynski, 1997), one factor that increases the tendency to support leaders is the need to quell mortality concerns. The present research applied this analysis to investigate how thoughts about death and the 9/11 terrorist attacks influence attitudes toward the current president of the United States, George W. Bush. Study 1 found that mortality salience (MS) increased support for Bush and his counter-terrorism policies. Study 2 demonstrated that subliminal exposure to 9/11 related stimuli increased accessibility of death-related thought, thus establishing a link between terrorism-related thought and death concerns. Study 3 showed that the salience of 9/11 produced effects parallel to those of MS: increasing support for Bush and his policies. Discussion focused on the role of terror management processes in allegiance to leaders and political decision-making.

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It is [fear] that makes people so willing to follow brash, strong-looking demagogues with tight jaws and loud voices: those who focus their measured words and their sharpened eyes in the intensity of hate, and so seem most capable of cleansing the world of the vague, the weak, the uncertain, the evil. Ah, to give oneself over to their direction – what calm, what relief.

Ernest Becker, *The Birth and Death of Meaning* (1971, p. 161)

Starting with Sigmund Freud's suggestion that leaders serve as substitute parent figures (Freud, 1921/1965), psychologists of diverse theoretical persuasions have argued that the popularity of leaders depends, at least in part, on the extent to which they meet the pressing needs of their followers (e.g., Becker, 1973; Bord, 1975; Ehrhart & Klein, 2001; Fromm, 1941; Kirkpatrick & Locke, 1996; Pallai, 1996; Redl, 1942). Terror management theory (TMT; Greenberg, Pyszczynski, & Solomon, 1986; Solomon, Greenberg, & Pyszczynski, 1991) posits that one of the most basic functions that leaders serve is that of helping people manage a deeply rooted fear of death that is inherent in the human condition. Initial empirical support for this point was provided by Cohen, Solomon, Maxfield, Pyszczynski, and Greenberg's (in press) finding that reminders of mortality increase support for charismatic leaders in a hypothetical election scenario. This analysis implies that when reminders of one's vulnerability and mortality are highly salient, support for such leaders is likely to increase.

The terrorist attacks on the World Trade Center and Pentagon on September 11, 2001 seem highly likely to have dramatically increased the salience of such death-related concerns for most of the American people. As one might predict from the terror management perspective, the popularity of the then and current American president, George W. Bush, increased dramatically

in the days after the 9/11 terrorist attacks and has remained relatively high to this date, in the Spring of 2004. In the present paper we use the popularity of President Bush as a context for an “experimental case study” of the role of existential fear in promoting support for government leaders. Specifically, we examine (a) the effect of reminders of mortality on support for President Bush, (b) the link between 9/11-related stimuli and the accessibility of death-related thoughts (which have been shown to mediate the effect of MS on the pursuit of faith in one’s cultural worldview; for a review, see Pyszczynski, Greenberg, & Solomon, 1999), and (c) the impact of reminders of 9/11 on the popularity of President Bush.

Terror Management Theory

Building on the writings of Ernest Becker (1971, 1973, 1975), TMT begins with the assumption that humans share with all animals a fundamental orientation towards continued survival, along with many of the same biological and psychological systems designed for self-preservation. Humans are unique, however, in their capacity for self-consciousness, symbolic thought, and imagining possible future events. Despite their adaptive value, these cognitive abilities render humans aware that their own death is inevitable and possible at any moment, a recognition that conflicts with the biological propensity for continued existence, and therefore gives rise to the potential for debilitating anxiety. To manage the potential for anxiety that this awareness produces, people deny that physical death implies absolute annihilation by maintaining faith in a personalized version of a *cultural worldview* (CWV): a set of humanly constructed, culturally derived, and socially validated beliefs about the nature of reality that provides meaning and the promise of literal or symbolic immortality to those who uphold culturally prescribed standards of value. For one’s worldview to effectively provide protection from death concern, the individual must see him- or herself as living up to the culture’s standards of value, resulting in *self-*

esteem. Faith in cultural *meaning* and the perception of oneself as an object of *value* within that scheme provide a protective shield against the potential for anxiety that results from one's awareness of the inevitability of death.

The most prominent line of empirical support for TMT comes from tests of the *mortality salience hypothesis*, which states that, if the CWV functions to provide protection against death-related concerns, then reminders of death (mortality salience; MS) should intensify efforts to bolster and defend faith in a meaningful CWV (for more thorough reviews of empirical support for TMT, see Greenberg et al., 1997; Pyszczynski, Solomon, & Greenberg, 2003). This broad hypothesis has been supported by a wide range of studies demonstrating the many ways in which MS increases defense of one's worldview and striving to meet internalized standards of value. This body of research has operationalized MS in a variety of ways and has included control inductions in which participants are induced to think about aversive topics other than death, such as physical pain, academic failure, uncertainty, or social rejection. Although these control topics sometimes produce more negative affect than MS inductions, they have nevertheless consistently failed to produce effects parallel to MS on the primary measures of CWV defense; research has also shown that effects parallel to MS are not produced by heightened self-awareness, the salience of cultural values, meaninglessness, or high cognitive load (cf., Greenberg et al., 1997). Additionally, internal analyses consistently reveal that terror management defenses are not mediated by the participant's current emotional state; research also indicates that the MS inductions that produce increased worldview defense in this research have no appreciable effect on physiological arousal (Arndt, Allen & Greenberg, 2001; Rosenblatt, et al., 1989). This large body of evidence thus strongly suggests that MS effects result specifically from activating death-related cognitions.

TMT posits that terror management defenses are ultimately concerned with the implicit knowledge of death rather than with consciously experienced terror per se. Pyszczynski et al. (1999) proposed a dual process model of the cognitive processes through which thoughts of death affect behavior which posits that distal symbolic terror management defenses (CWV & self-esteem) function to manage the potential for anxiety engendered by high levels of the accessibility of implicit death-related thought. On the other hand, proximal defenses entail the suppression of death-related thoughts or pushing the problem of death into the distant future by denying one's vulnerability to various risk factors; proximal defenses are rational, threat-focused, and are activated when thoughts of death are in current conscious attention. Evidence for the dual process model has been obtained by a variety of studies. For example, Greenberg, Pyszczynski, Solomon, Simon, and Breus (1994; Study 1) found that subtle reminders of mortality led to more worldview defense compared to more blatant reminders, and subtle reminders also led to increased symbolic worldview defense when participants were distracted from the problem of death, but not when they were forced to dwell on it. Greenberg et al. also exposed participants to explicit mortality reminders and assessed the accessibility of death-related thought after varying delays using a word fragment completion task (similar to Bassili & Smith, 1986). In this task, participants were asked to complete a series of word fragments (e.g., "COFF__") that could be completed with death-related or neutral words (COFFIN vs. COFFEE). Results revealed that the accessibility of death-related thought was higher after a delay and distraction than immediately after conscious contemplation of death.

Subsequent work has shown that conditions that heighten death thought accessibility increase worldview defense and self-esteem striving, and that these defensive responses then reduce death thought accessibility to baseline levels (for a review of this work, see Arndt, Cook,

& Routledge, in press; Pyszczynski et al., 1999). Greenberg et al. (2003) recently employed a placebo paradigm to provide relatively direct evidence that it is the *potential* for anxiety rather than the conscious experience of anxiety that instigates such defenses; specifically, convincing participants that a substance they had ingested blocks anxiety eliminated the effects of an MS induction. In sum, whereas more straightforward proximal defenses against death (e.g., promising to get more exercise) serve to push death out of awareness, it is the sustained perception of oneself as a person of value in a world of meaning that allows people to avert the potential for anxiety that results from the increased accessibility of death-related thought. These defenses address the problem of death in a more indirect or symbolic manner by enabling one to view oneself as a significant contributor to a meaningful and enduring social reality.

The Popularity of President George W. Bush

Prior to the September 11, 2001 terrorist attacks on the World Trade Center and Pentagon, President Bush's popularity among the American people was tenuous at best. He had lost the popular vote in the 2000 election and won the presidency after a narrow victory in the Electoral College that was ultimately decided by the Supreme Court after a highly controversial near-draw in the critical electoral state of Florida. A collection of national public opinion polls by PollingReport.com (2004; including Fox News, CNN/USA Today/Gallup Polls, and ABC News/Washington Post Polls) indicates that President Bush's approval ratings hovered around 50% in the weeks preceding the terrorist attacks. A front page article in the New York Times (Berke & Sanger, 2001) on September 9, 2001 reported intense efforts by the White House staff to increase the president's popularity in the face of a sagging economy and critical evaluations of his style and strategy by leading Republican legislators. All of this changed virtually

overnight, with polls indicating an unprecedented 88-90% approval rating as early as 9-13/01 (Morin & Deane, 2001; PollingReport, 2004). Opinion polls also showed overwhelming support for Bush's handling of the terrorist crisis, the restriction of civil liberties, the military action against the Taliban in Afghanistan, and, at least initially, the pre-emptive war on Iraq (Dworkin, 2002; Langer, 2001; Moore, 2001; Toner & Elder, 2001).

This is not to say that Bush's actions and policies have not been subjected to intense scrutiny, criticism, and skepticism in some quarters (e.g., Anonymous, 2004; Alterman & Green, 2004; Clarke, 2004; Dean, 2004; Frank, 2004; Humberman, 2004; Phillips, 2004; Risen, 2004; Suskind, 2004; Unger, 2004; Waldman, 2004; Woodward, 2004). Since 9/11, various facts and allegations have come to light which one might expect would dampen the enthusiasm many Americans have for their President. To cite just a few examples: (a) the President's call to war on Iraq to pre-empt the threat of terrorist attacks from that nation was most certainly based on faulty intelligence information linking Iraq to al Qaeda and the 9/11 bombings, (b) no evidence has been found of any weapons of mass destruction which might justify the urgency of a pre-emptive war against Iraq and (c) discussion of plans for war on Iraq may have been held months earlier than first assumed. Yet, as news of these events has unfolded, the polls suggest George W. Bush continues to maintain an advantage over John Kerry, his democratic opponent for the 2004 election (although results vary by poll. For full results see PollingReport.com).

TMT and Support for President Bush

How might we understand the psychological forces bearing on the confidence and trust people are willing to place in their national leaders, especially in times of crisis? TMT posits that popular support for leaders is partly the result of the need to allay a deeply rooted fear of death.

According to TMT, people are motivated to conceive of themselves as valued participants in a cosmically significant cultural scheme rather than physical creatures subject to decay and death. Investing faith in the leader of that scheme to assure symbolic prosperity facilitates the maintenance of this buffer. The appeal of the leader lies in his or her perceived ability to both literally and symbolically deliver the people from illness, calamity, chaos, and death, as well as to demonstrate the supremacy of the worldview. Building on the ideas of Freud, Ferenczi, Rank, Redl, and Fromm, Becker (1971,1973,1975) proposed that over the course of socialization, the primary sources of psychological security, those entities that sustain the sense of life as meaningful and one's self as significant, shift from one's parents to the culture and its figures of power, authority, and righteousness. As a result of this transference process, Becker (1975, p. 42) viewed secular leaders as representing not only rational, objective policy makers, but, like their religious counterparts, assuming the role of "death-dealer and death-defier" – the embodiments of invulnerability and symbolic supremacy (see also Lifton, 1968).

From this perspective, President Bush's appeal may lie in his image as a protective shield against death, armed with high-tech weaponry, patriotic rhetoric, and the resolute invocation of doing God's will to "rid the world of evil" (Sanger, 2004). Indeed, quoting from Bob Woodward's (2004) book, an article in Newsweek entitled, "The Gospel According to George" (Fineman & Lipper, 2004), describes how when asked if he seeks his father's advice on Iraq, the President replied, "You know, he is the wrong father to appeal to in terms of strength. There is a higher father that I appeal to." President Bush may provide a sense of protection from the overwhelming terrorist threat, both literally by insuring physical safety, and symbolically by acting on America's behalf in a heroic triumph over evil (symbolized by Bush landing aboard an aircraft carrier in a Navy jet to declare the war in Iraq to be functionally over; and by the

dramatic toppling of Saddam Hussein's statue in Baghdad). In sum, TMT suggests that people avoid a potentially debilitating preoccupation with personal frailty and finitude, in part, by transferring power to and investing faith in a powerful authority – a central locus of control over life and death – that appears to assure indefinite perpetuation by assuming mastery over nature and tragedy and upholding the cultural meaning system that imbues individual lives with transcendent meaning, order, and permanence.

If loyalty to leaders stems in part from terror management concerns, then reminders of mortality should increase Americans' support for President Bush. A number of previous findings are generally consistent with this hypothesis. A substantial body of research indicates that MS engenders inflated regard for a wide array of people, concepts, and objects that represent the culture to which the participants subscribe (reviewed by Greenberg et al, 1997; Solomon et al., in press). For example, Greenberg et al. (1994) found that, compared to those primed with another aversive outcome, death-primed individuals expressed especially favorable evaluations of essays and their authors who praised the U.S., and especially negative evaluations of anti-U.S. essays and their authors. MS has also been shown to incite aggressive behavior against those who impinge on one's worldview: McGregor et al. (1998) found that death-primed participants administered excessive amounts of an aversively spicy hot sauce to a target who verbally attacked their political orientation. Research by Greenberg et al. (1995) showed that following MS American participants became more reluctant and uncomfortable when treating an American flag inappropriately. Finally, Arndt, Greenberg, and Cook (2002) found that subliminal death primes (and explicit MS treatments after a delay) can increase the accessibility of nationalistic cognitions. Taken together, these findings provide convergent support for the role of intimations

of mortality in people's allegiance to and defense of the nationalistic aspects of their cultural worldviews.

Of most direct relevance for present purposes, Cohen et al. (in press) recently demonstrated that MS enhances the appeal of a charismatic leader who promotes a grand vision and promises citizens a significant role in a noble mission in a hypothetical election scenario. More specifically, MS increased preference for a hypothetical political candidate portrayed as having charismatic qualities, but not for ones portrayed as task-oriented or relationship-oriented. The studies reported here seek to extend these findings by providing an "experimental case study" of the role of death-related concerns in general, and 9/11-related concerns in particular, in promoting support for President George W. Bush.

Study 1

Study 1 was designed to test the hypothesis that, to the extent that support for President Bush derives in part from terror management needs, then MS should increase support for Bush and his policies. To test this hypothesis, we primed American participants with thoughts of either death or a control topic and then measured their support for President Bush and his anti-terrorism policies.

Method

Participants

Ninety seven undergraduates at Rutgers University (65 females and 32 males) volunteered to participate in return for extra credit in their psychology class in October, 2003.

Materials and Procedure

Participants were run in a single session in a psychology class. The experiment was described as a short study of the relationship between personality attributes and opinions about

social issues. Each participant was given a questionnaire packet and asked to complete each question in the booklet in the order in which it appeared. The MS manipulation followed two filler questionnaires included to sustain the cover story and obscure the true purpose of the study. In the MS condition, participants responded to two open-ended questions (used in previous TMT studies, e.g., Greenberg et al., 1990; Rosenblatt et al., 1989): “Please briefly describe the emotions that the thought of your own death arouses in you” and “Jot down, as specifically as you can, what you think will happen to you as you physically die and once you are physically dead.” Control participants responded to parallel questions about watching television. All participants then completed a self-report mood scale (Watson and Clark’s PANAS-X, 1991) to assess possible affective consequences of the MS induction, and read a short literary passage to serve as a delay and distraction because previous research (Greenberg et al., 1994) has shown that MS increases CWV defense most consistently when there is a delay and distraction between the MS induction and dependent variable assessment.

Participants then read the following essay expressing a highly favorable opinion of the measures taken by President Bush with regards to 9/11 and the Iraqi conflict:

It is essential that our citizens band together and support the President of the United States in his efforts to secure our great Nation against the dangers of terrorism. Personally I endorse the actions of President Bush and the members of his administration who have taken bold action in Iraq. I appreciate our President's wisdom regarding the need to remove Saddam Hussein from power and his Homeland Security Policy is a source of great comfort to me. It annoys me when I hear other people complain that President Bush is using his war against terrorism as a cover for instituting policies that, in the long run, will be detrimental to this

country. We need to stand behind our President and not be distracted by citizens who are less than patriotic. Ever since the attack on our country on September 11, 2001, Mr. Bush has been a source of strength and inspiration to us all. God bless him and God bless America.

They were then asked to respond to three questions: “To what extent do you endorse this statement?” “I share many of the attitudes expressed in the above statement,” and “Personally I feel secure knowing that the President is doing everything possible to guard against any further attacks against the United States.” All responses were made on 5-point scales (1= *Strongly agree*, 5 = *Strongly disagree*). These responses were then reversed-scored so that higher numbers were indicative of greater support for the President.

Results and Discussion

Support for the President. The responses on the three questions demonstrated good internal reliability ($\alpha = .94$) so they were combined to yield a composite agreement score, which was submitted to a 2 (MS v. Control) x 2 (gender) ANOVA. There was no main effect or interaction for gender, p 's > .2. However, the predicted main effect for MS was obtained ($F(1, 93) = 112.48, p < .001$); those in the MS condition reported higher support for President Bush ($M = 4.16, SE = .145$) than those in the control prime condition ($M = 2.09, SE = .131$). Analyses conducted on the individual items making up our composite measure revealed significant effects on all three items, all p 's < .01, with MS increasing approval of Bush and his policies on each item. It is noteworthy that the mean in the control group is on the disagreement side of the scale's midpoint, whereas the mean in the MS condition is on the agreement side. Also, the effect size is large, $\eta^2 = .55$.

Affect. To assess whether MS affected mood, we performed MANOVA's on the subscales of the PANAS-X (Watson & Clark, 1991) and positive and negative affect¹. Consistent with previous TMT research demonstrating that MS does not engender affect, there were no significant differences found for these analyses. To ensure that the MS effect reported above was not mediated by affect, we conducted an analysis of covariance (ANCOVA) with the affect subscale scores (including positive and negative affect) as covariates and the effect of MS remained statistically intact. Thus, we are quite confident that, as in past research, this finding is not caused by affective differences between MS and TV salience conditions.

9-11 and Support for Bush

In his 2004 re-election effort, President Bush sought to establish his effectiveness in combating terrorism and his ability to protect people from the alleged threats associated with terrorism. Political ads in support of the Bush campaign have featured images of 9/11 and its aftermath and emphasized the President's ability to preserve national security (Stevens & Rutenberg, 2004). Because the prosecution of the war on terror has become a touchstone of Bush's re-election campaign, one might wonder whether references to 9/11 are effective in increasing support for President Bush, and if so, why.

Understanding these reactions requires a theoretical framework from which to assess the psychological significance of terrorism-related events. In this vein, Pyszczynski et al. (2003) recently portrayed the events of 9/11 as a "natural" MS induction, and discussed how many of the symbolic defenses prompted by 9/11 (e.g., veneration for culturally sacred objects, such as flags) paralleled those found in response to MS inductions used in terror management research. Based on these affinities, Pyszczynski et al. proposed that symbolic responses to 9/11 are the product of a potent double-barreled threat posed by the events: vivid and unceasing depictions of

death and destruction compounded by the abrupt collapse of central symbols of America's military and financial might and awareness that hundreds of thousands of people in the Middle East and elsewhere view America's policies as evil, to the extent that they are willing to die to harm America. In concert, these threats should encourage bolstering of Americans' faith in the symbolic structures that constitute the dominant cultural worldview. From this perspective, many symbolic defenses in response to 9/11 represent efforts to re-affirm the integrity and absolute validity of the American worldview in response to increased accessibility of implicit death-related thoughts (see also Miller & Landau, in press). However, we know of no direct experimental evidence that terrorism-related events parallel the effect of MS primes in increasing death-thought accessibility, or that 9/11 related thoughts play a role in increased attraction to a leader. In Study 2 we therefore sought to discover whether 9/11-related thought functions in the same way as death-related thought in producing heightened implicit death accessibility. Then in Study 3 we determined if reminders of 9/11 function like MS primes in increasing support for President Bush.

Study 2

Support for the dual process model has been obtained from studies showing that MS inductions that completely by-pass the conscious consideration of death can influence symbolic defenses (Arndt, Greenberg, Pyszczynski, & Solomon, 1997). More specifically, Arndt et al. demonstrated that presenting death-related words beneath conscious awareness led to an immediate increase in death thought accessibility, although neither supraliminal presentation of death-themes nor subliminal presentation of neutral or negative control words had this effect. Furthermore, subliminal death stimuli led to an immediate increase in worldview defense (increased preference for a pro-American essay and its author over an anti-American author)

whereas previous research has shown that supraliminal death stimuli produce such effects only after a delay and distraction. In short, the increased accessibility of death-related thought outside of focal attention—the condition shown to engender symbolic defenses—occurs at an unconscious level.

Other research has found that threats to terror management defenses increase death thought accessibility, whereas strengthening those defenses tends to reduce it (Arndt, Greenberg, Solomon, Pyszczynski, & Simon, 1997). For example, increases in death thought accessibility have been shown to follow explicit reminders of one's physical nature (Goldenberg, Cox, Pyszczynski, Greenberg, & Solomon, 2002), salient threats to a close relationship (Mikulincer, Florian, & Hirschberger, 2003) and confrontations with events that violate the belief in a just world (Landau et al., in press). Based on these lines of research, we predicted that, to the extent that 9/11 functions like an MS prime in activating unconscious concerns about mortality, subliminal exposure to 9/11-related stimuli should result in an increase in the accessibility of death related thoughts. This would establish the cognitive link between 9/11 and death thought accessibility assumed by our analysis of the effects of 9/11.

Method

Participants and Design

Participants were 52 introductory psychology students at the University of Missouri–Columbia, who were randomly assigned to receive one of three subliminal primes: *9/11*, *WTC*, or *5/73*. This study was conducted approximately one month after the 9/11/01 attacks. The dependent variable was the accessibility of death related words. Six participants were excluded (4 who did not complete the questionnaires correctly; 2 due to errors with their materials). Therefore, a total of 46 participants (26 females and 20 males) were included in the analyses.

Procedure

Upon participants' arrival, the experimenter introduced himself and described the experiment as exploring the ability to perceive word relationships and personality traits. Participants were told they would complete some personality questionnaires, a computer task, and then some additional word perception measures. They were assured their responses would not be associated with their names or student ID numbers. Participants then read and signed a consent form before the procedures commenced.

After the participants completed some filler personality questionnaires (which served to maintain the cover story), they were escorted into smaller cubicles that contained the computers. The experimenter then gave the instructions for the word-relation task which required participants to decide as quickly as possible whether two words that flashed sequentially on the computer were related or unrelated by pressing the right shift key or the left shift key, respectively. For example, if the words *flower* and *rose* were presented, they should press the right shift key to indicate that they are related, but if the words *sneaker* and *fajita* were presented, they should press the left shifted key to indicate that they are not. The experimenter then turned off the room light to reduce the glare on the screen. The appropriate keys and the light switch were illuminated via glow-in-the-dark stickers.

When participants were finished with the computer task, they were told to turn on the light and complete the packet of word perception measures lying on a clipboard next to the computer. The questionnaires included a death-theme accessibility measure followed by some additional word puzzles and then some manipulation check questions to assess participants' awareness of the stimuli display. Participants were told to put the completed questionnaire in a blank envelope provided, and then put the envelope in the box located under the desk. When

participants were finished with both of these tasks, they were instructed to crack the door of the cubicle. Then participants were probed for suspicion, fully debriefed, and thanked for their time.

Materials

Apparatus and program for stimulus presentation. Stimuli were presented on a 15" Gateway color monitor controlled by an IBM-compatible computer. The task was presented using DMASTR display software developed at Monash University and at the University of Arizona by K.I. Forster and J.C. Forster. The program synchronizes the timing of the display and uses normal bit-mapped fonts. The first few frames presented instructions and three practice stimuli centered on the screen. There were then 10 trials sequentially presenting three words centered on the screen. The first and third words were the target words for which participants were supposed to determine the presence or absence of a relationship. Actually these two words served as a forward mask (and fixation point) and backward mask, respectively, and were displayed for 356 ms. The critical subliminal prime, either *911*, *WTC*, or *573* depending on the condition, was presented between the two masked words for 28.5 ms. Both *911* (referring to the date) and *WTC* (World Trade Center) were chosen as the terrorism primes due to their widespread association with the terrorist attacks on the World Trade center September 11, 2001. Because *911* is also associated with emergencies, we also included *WTC* as a prime which presumably had little meaning until its increased media usage following the terrorist attacks. The control prime, *573*, was chosen because of its familiarity (as the area code for Columbia, Missouri) and its number of characters matched that of the other two primes. Which version of the program was presented was set by another research assistant in order to keep the experimenter blind to conditions.

Accessibility. A word fragment completion task, similar to tasks used by other researchers

(e.g., Gilbert & Hixon, 1991; Greenberg et al., 1994), was introduced as a measure “being pre-tested for future studies,” but was actually used to assess the accessibility of death-related themes. The measure consisted of 34 word fragments which participants were instructed to complete with the first word that came to mind. Six of the 34 fragments could be completed with either a neutral or death-related word. For example, the fragment COFF__ could be completed as COFFEE (a neutral word) or COFFIN (a death-related word). The possible death-related words were *buried*, *skull*, *murder*, *stiff*, *coffin*, and *grave*.

Results and Discussion

Checks on awareness of subliminal stimuli. To assess participants’ awareness of the subliminal stimuli, we examined their responses to the five questions presented at the conclusion of the session. Forty of the 46 participants indicated that they saw two words in each trial display [*How many words did you see in each display (each trial for which you were to make relational judgments)?*]. With the next question (*Did you ever see more than 2 words flash at a time?*), only 1 participant indicated that he may have seen more than 2 words. Pearson chi-square tests indicated that there were no differences between prime conditions, $\chi^2(2, N = 46) < 2.10, p > .34$. For the questions that asked participants if the word was the same or different and asked participants to list all possibilities, all of the participants left them blank. A Pearson chi-square test conducted on the multiple choice question in which the participants were asked, *Assuming that there was something flashed between the two target words, which of the following do you think it may have been*, revealed no differences between conditions, $\chi^2(10, N = 46) = 11.42, p > .32$. Thus, as in previous research using this manipulation (e.g., Arndt et al., 1997; Arndt, Greenberg, & Cook, 2002), there was no conscious retrospective awareness of the prime.

Accessibility of death related thoughts. A one-way ANOVA was conducted on the

accessibility of death thoughts, as indicated by the number of death-related word fragments, which shows a marginal difference between prime groups, $F(2, 43) = 3.03, p < .06, \eta^2 = .12$. Of course, our prediction corresponded to a 2 vs. 1 contrast rather than a linear trend. Thus, we conducted two orthogonal contrasts. The first answers the following question: Does being subliminally primed with symbols related to the recent terrorist attacks increase death-thought accessibility compared to a control condition? This planned contrast confirmed our hypothesis, revealing that participants in the terrorism prime conditions showed greater death-thought accessibility ($911 = 2.07, SD = .80, WTC = 1.80, SD = 1.15$) than those in the control condition, ($573 = 1.25, SD = .86$), $t(43) = 2.34, p < .03$. The second contrast found that although the mean was a bit higher in the 911 condition than in the WTC condition, this difference was not statistically significant, $p > .44$.

Study 2 demonstrated that stimuli commonly associated with the 9/11 attacks (911 & WTC) produce an increase in death thought accessibility, much like previous research has shown subliminal death-related stimuli do (Arndt et al., 1997a). This establishes the cognitive linkage between the 9/11 terrorist attacks and death thought accessibility that is central to Pyszczynski et al.'s (2003) analysis of how Americans reacted to these attacks, and that we posit to underlie the effect of reminders of the 9/11 attacks on Americans' approval of President Bush and his policies.

Study 3

Having established that cognitions related to 9/11 function much like MS primes in increasing death thought accessibility, we next examined whether reminders of 9/11 were functionally equivalent to MS primes in increasing support for President Bush. To test this

hypothesis, we primed participants with thoughts of death, 9/11, or an aversive control topic and then measured their attitudes toward Bush.

Because a non-aversive control prime (television salience) was used in Study 1, the possibility remains that the findings of that study were the result of thinking about negative events in general, and not necessarily death, per se. To address this alternative, Study 3 used a control prime likely to be aversive to students: thoughts of an upcoming exam. We also wanted to assess possible effects of reminders of mortality and 9/11 on general political orientation. From our perspective, the increase in favorability toward Bush reflects the effects of death reminders on the appeal of a leader who promotes security and the vanquishing of evil, but an alternative possibility is that reminders of death or 9/11 simply make people more politically conservative, which in turn makes Bush more appealing. Thus we included a simple measure assessing participants' self-reported position along a continuum from very conservative to very liberal.

Method

Participants

Participants were 74 (46 female, 28 male) Rutgers undergraduates who volunteered to be in the study for extra credit in February, 2004.

Materials and Procedure

Participants were run in a classroom setting. The procedure was virtually identical to Study 1: Participants were told we were interested in the relationship between personality attributes and opinions on social issues. After completing filler questionnaires to sustain the cover story, participants were randomly assigned to a MS, exam salience, or terrorism prime condition. MS participants completed the typical two open-ended questions about death; exam

salience participants completed parallel questions about an upcoming exam; terrorism salience participants were asked to “Please describe the emotions that the thought of the terrorist attacks on September 11, 2001 arouses in you.” and “Write down as specifically as you can, what happened during the terrorist attacks on September 11, 2001.” After completing the PANAS-X to assess the affective consequences of the MS and terrorism salience inductions and reading the delay paragraph, participants were asked to read the same paragraph praising George Bush used in Study 1 and answer the same three questions about it. These items demonstrated good internal reliability ($\alpha = .89$) so we formed a composite index indicative of support for the President. Finally after completing some filler demographic questions, participants were asked to indicate their political orientation on a scale from 1 (*Very conservative*) to 9 (*Very liberal*).

Results and Discussion

Support for the President. There was no effect of or interaction with gender, $F_s < 1$. A one-way ANOVA (priming condition) on the liking for Bush composite revealed a significant effect, $F(2, 71) = 43.12, p < .001$ (see relevant means in Figure 1). A 2 vs. 1 contrast confirmed our hypothesis, revealing that participants in MS and terrorism salience conditions showed greater support for Bush and his policies compared to those in the control condition, $t(72) = 9.31, p < .001$. A second contrast found that although the mean was a bit higher in the MS condition, this difference was not statistically significant, $p > .8$. As in Study 1, exam salient control participants were on the disagreement side of the scale, whereas MS and terrorism salient participants were on the agreement side of the scale; there was also a large effect size, $\eta^2 = .55$. These results thus replicate those of Study 1, and additionally show that reminders of 9/11 have the same effect as MS in increasing the appeal of President Bush. As in Study 1, analyses of the

individual items revealed significant effects on all three items, all p 's < .01, with identical patterns of statistically significant differences among means.

Affect. To assess whether MS affected mood, we performed MANOVA's on the subscales of the PANAS-X (Watson & Clark, 1991) and positive affect and negative affect. Consistent with previous TMT research demonstrating that MS does not engender affect, there were no significant differences found for these analyses ².

Political orientation. A one-way ANOVA revealed no effect of the MS or terrorism prime on political orientation, $F < 1$, suggesting that these inductions enhanced affection for President Bush without altering political orientation per se. Overall, the sample was moderately liberal, with a mean of 5.8. In order to assess whether the priming effects were not exclusive to participants with a conservative political orientation, we conducted a regression in which the Bush approval composite was the dependent variable and prime condition, political orientation, and their interaction served as predictors. We observed the expected main effects for condition and political orientation, indicating higher approval in the MS and 9/11 conditions and the more conservative the participants were.

We also found an unanticipated significant interaction, $\beta = .74$, $SE = .07$, $t = 1.96$, $p = .05$. To explore the interaction pattern we used a median split to derive means for our conservative and liberal participants (see Figure 2). Pair-wise comparisons revealed that, as expected, MS and 9/11 salience increased both conservatives' and liberals' liking for Bush, all p s < .001; this indicates that the effect was not simply due to conservatives expressing increased support for Bush. The interaction seems to have resulted from a dip in the appeal of Bush among the more conservative participants in the 9/11 condition relative to the MS condition. This dip was not significant, $p > .10$. However, whereas the conservatives were significantly more Pro-

Bush than the liberals in the control and MS conditions (both $ps < .04$), the two groups did not differ in the 9/11 condition.

These results support the hypotheses that MS and a reminder of 9/11 would both increase the appeal of President Bush regardless of political orientation. The interaction suggests that 9/11 does so a bit less for the more conservative participants. We cannot offer a definitive interpretation for this unexpected pattern, but if it is not spurious, it may reflect the nature of the sample. The conservative group actually included 27 participants who circled 5, the mid-point of the scale. It may be that for politically middle-of-the-road people, certain aspects of Bush's handling of 9/11 were not appealing. Further research with a broader sampling of political orientations is needed to explore this further, but it is important to keep in mind that both MS and 9/11 significantly increased the appeal of President Bush for both our conservative and liberal participants.

General Discussion

Study 1 explored the role of mortality concerns in American popular support for President Bush and found that MS increased agreement with a favorable assessment of Bush and his policies, producing a change across the midline of the scale. Because issues of national security are a substantial component of the Bush administration's campaign strategy, we then explored the psychological impact of reminders of 9/11. In Study 2 we found that, paralleling the effects of subliminal death primes reported in previous research, subliminal presentations of 9/11-related stimuli (9/11 and WTC) increased death thought accessibility. Study 3 extended these findings by demonstrating that making 9/11 salient was functionally equivalent to MS in increasing support for President Bush.

The present findings support the views of many theorists (e.g., Becker; Freud; Fromm, Lifton; Lipman-Blumen, 1996; Weber) and researchers (Bord, 1975; Ehrhart & Klein, 2001; Kirkpatrick & Locke, 1996; Pallai, 1996) who have noted that political allegiances are not always based on the balanced, rational forces of self-interest suggested by the Jeffersonian notion of democracy, but also on the operation of non-rational forces of which we're not always aware. From the perspective of TMT, it is the need to manage concerns about vulnerability, destruction, and ultimately death that lead people to cling to the protection provided by their leaders. By showing that reminders of both death and the 9/11 terrorist attacks increase support for President Bush, and that even very subtle reminders of 9/11 increase the accessibility of death-related thoughts, the present research provides initial support for our TMT analysis.

The political orientation measure in Study 3 suggests that the increased appeal of President Bush in response to reminders of death or the events of 9/11 was not the result of an increase in political conservatism. Such a null finding must of course be interpreted with caution and could reflect insensitivity of the one item, albeit face valid, measure. However, it is consistent with earlier findings. Greenberg et al. (1992) and McGregor et al. (1998) manipulated MS in conservative and liberal participants, and in neither case did the dependent measures suggest a shift in political orientation of the liberals toward conservatism. In addition, in Cohen et al. (in press), the descriptions of the hypothetical candidates did not imply anything about their political orientation, making it unlikely that the MS-induced increase in preference for the charismatic candidate reflected a conservative shift. These points notwithstanding, further research on the effects of MS and 9/11 reminders on political orientation as well as the appeal of leaders is certainly warranted.

The present findings raise a variety of intriguing questions for future research. Would MS and reminders of the threat of terrorism intensify support for any leader or is there something specific about President Bush and his policies that make him especially useful for terror management purposes? TMT suggests that the problem of death intensifies the human need for leaders – protective authorities to whom one can transfer his or her anxieties. George W. Bush is obviously a multi-dimensional stimulus, and so it is difficult to be definitive about precisely what makes him more appealing to Americans after a reminder of death. However, related research points to a few likely factors. One is his status as the President of the country. This position makes him the person most representative of the U.S. at the current time. If MS increase pro-U.S. sentiment in Americans, as a considerable body of evidence indicates, increased liking for the President is also likely to be increased. Secondly, President Bush has certain elements of a charismatic style: he appears highly self-confident and certain of his views (Feldmann, 2004), appeals to patriotism and emphasizes the positive qualities of America and being American, and the central role of the U.S. in triumphing over evil and defending freedom. Cohen et al. (in press) found that MS increases preference for a hypothetical candidate who embodies precisely this style. A third possible factor is Bush's advocacy of strong security and aggressive military measures. Although it would be useful to determine the relative contributions of these different facets of Bush, this would be a difficult task because Bush's position is unique. We could for example compare him to current Democratic Presidential nominee John Kerry, but Kerry's qualities are less clear, and he seems to lack all three of those elements. In contrast, a past leader like Reagan had all three qualities but differs in no longer being influential. Indeed, we would suggest that these three attributes tend to co-vary in political leaders, and act in concert to contribute to who Bush is as a public figure.

Political implications. The present results clearly show that President Bush's popularity is increased when thoughts of death or terrorism are especially salient, and this is particularly relevant to ongoing campaign strategies as the 2004 presidential election approaches, and for future political campaign strategies as well. The fact that reminders of death and the events of 9/11 enhanced support for President Bush in the present studies may not bode well for the philosophical democratic ideal that political preferences be the result of rational choice based on an informed understanding of the relevant issues. If the effect of MS on attraction to leaders is indeed rooted in the largely irrational symbolic protection that they provide, the best antidote to this problem may be to take great pains to encourage people to vote with their "heads" rather than their "hearts" – as past research (Simon et al., 1997) has demonstrated that MS effects are attenuated by instructions to think rationally. Of course, in these frightening times, when the media is rife with images of death and the threat of terrorist acts is increasingly imminent, rationally driven decisions may be unlikely. But perhaps the knowledge of how concerns about death influence human behavior can promote campaign strategies and electoral choices based on the political issues and qualifications of the candidates rather than based on rhetoric primarily serving defensive needs to preserve psychological equanimity in the face of death.

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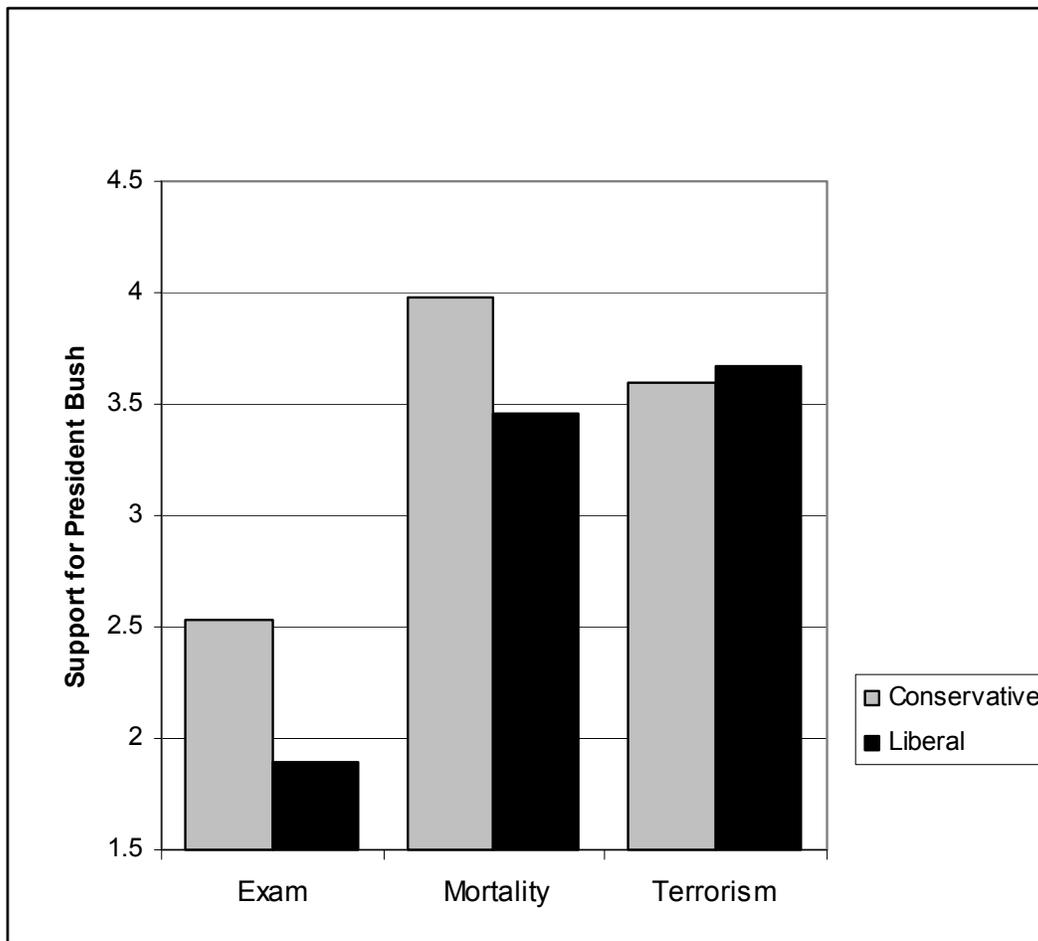
Figure 1

Study 3: Support for George W. Bush as a Function of Priming Condition



Figure 2

Study 3: Support for George W. Bush as a Function of Priming Condition and Political Orientation



Footnotes

1. Due to an error, only 32 of the 60 items from the PANAS-X were included in this questionnaire. Consequently, affect subscales were constructed from these items. This was rectified for Study 3 with the same results as obtained in this study.
2. In addition to the MANOVA on the PANAS-X subscales, we submitted the positive and negative scores to one-way (priming condition) ANOVAs. These analyses revealed a marginal effect for negative mood, with 9-11 producing marginally higher negative affect compared to the exam salience condition. In order to ensure that the priming condition effects were not mediated by affect, we conducted an ANCOVA with the affect subscale scores (including positive and negative affect) as covariates and the effect remained statistically significant.