

## Cues that Matter: How Political Ads Prime Racial Attitudes During Campaigns

NICHOLAS A. VALENTINO, VINCENT L. HUTCHINGS,  
AND ISMAIL K. WHITE *University of Michigan*

*Recent evidence suggests that elites can capitalize on preexisting linkages between issues and social groups to alter the criteria citizens use to make political decisions. In particular, studies have shown that subtle racial cues in campaign communications may activate racial attitudes, thereby altering the foundations of mass political decision making. However, the precise psychological mechanism by which such attitudes are activated has not been empirically demonstrated, and the range of implicit cues powerful enough to produce this effect is still unknown. In an experiment, we tested whether subtle racial cues embedded in political advertisements prime racial attitudes as predictors of candidate preference by making them more accessible in memory. Results show that a wide range of implicit race cues can prime racial attitudes and that cognitive accessibility mediates the effect. Furthermore, counter-stereotypic cues—especially those implying blacks are deserving of government resources—dampen racial priming, suggesting that the meaning drawn from the visual/narrative pairing in an advertisement, and not simply the presence of black images, triggers the effect.*

The public expression of racist attitudes has dramatically declined over the last several decades (Schuman et al. 1997). Racial issues have also been approached rather obliquely in most federal and state election campaigns since 1968 (Mendelberg 2001). Still, there are indications that contemporary mainstream media reinforce negative stereotypes about minorities (Coltrane and Messineo 2000; Entman 1990, 1992; Entman and Rojecki 2000; Gray 1995). For example, crime news coverage often employs racial imagery, reinforcing linkages between blacks and violence (Dixon and Linz 2000; Gilliam and Iyengar 2000; Peffley, Shields, and Williams 1996). Reporting about poverty and social welfare has also become racialized, even though African Americans remain a minority of those in poverty or on government assistance (Gilens 1999; Mendelberg 2001).

The racial “coding” of crime and welfare in the minds of many Americans leads to the possibility that invoking these concepts, even without explicitly referring to race, can activate racial thinking (Gilens 1996, 1998; Jamieson 1992; Mendelberg 1997, 2001; Valentino 1999). Some have argued that elites foster and reinforce

these connections to gain a strategic political advantage. For example, Edsall and Edsall (1991) argue that Ronald Reagan nurtured the linkages among “special interests,” “big government,” and particular minority groups during the 1980s. The result, they claim, was that Americans perceived unpopular groups such as trade unionists, blacks, Hispanics, feminists, and homosexuals, to be united in making unreasonable demands for rights and resources they did not deserve (p. 203). These requests for “special preferences” were repeatedly juxtaposed against the interests of “ordinary” Americans. According to this argument, opinions about certain policies and programs became linked to attitudes about minority groups, thereby creating a powerful tool for strategic communicators to exploit during campaigns.

Coded language, understood by large segments of the public, affords elites the opportunity and incentive to activate racial thinking without explicitly “playing the race card.” Obvious examples are the 1988 “Willie Horton” appeal and its next of kin, the “Turnstile” ad that invoked the same issue (Massachusetts’ prison furlough program under Governor Dukakis) without mentioning Horton specifically. The Horton ad paired nonracial narratives with racial imagery to produce an “implicitly” racial message (Jamieson 1992), and news about the ad primed racial attitudes in opinions about various policies (Mendelberg 1997).

Mendelberg (2001) has outlined a theoretical approach for understanding the impact of racialized campaign messages. This argument has four components. First, white Americans are torn between the “norm of equality” and resentment toward blacks for their perceived failure to abide by the American creed of individualism and hard work. Second, racial priming works because certain cues make racial schemas more accessible in memory so that they are automatically employed during subsequent political decision making. Third, becoming aware of the racial content of a message would lead most people to reject it because they would not want to violate the norm of equality. Therefore,

---

Nicholas A. Valentino is Assistant Professor of Communication Studies and faculty associate at the Center for Political Studies, University of Michigan. His mailing address is 4244 Center for Political Studies, Institute for Social Research, 426 Thompson Street, P.O. Box 1248, Ann Arbor, MI 48106-1248 (nvalenti@umich.edu). All correspondence regarding the manuscript should be directed to the first author. Vincent L. Hutchings is Assistant Professor of Political Science and faculty associate at the Center for Political Studies, University of Michigan. Ismail K. White is a graduate student in political science at the University of Michigan.

This research was supported by generous grants from the College of Literature, Sciences, and the Arts, the Office for the Vice President of Research, and the Marsh Center for Journalistic Performance at the University of Michigan. This research would not have been possible without the extraordinary efforts of several research assistants including Tasha Philpot, Dmitri Williams, Lara Rusch, Matthew Beckmann, and Dara Farris. We thank Ted Brader, Martin Gilens, Ben Highton, Don Kinder, Tom Nelson, Wendy Rahn, David Sears, Mike Traugott, and Nick Winter for helpful feedback at various stages of this project. Errors are the authors’ alone.

fourth, racial appeals are effective only if they are not recognized as such by the audience. Mendelberg argues that “implicit” (i.e., visual but not verbal) cues rather than “explicit” (i.e., visual *plus* verbal) ones are likely to meet this fourth requirement. Experimental and survey data support her claim that implicitly racial messages can powerfully prime racial attitudes during campaigns.

Underlying Mendelberg’s approach is the assumption that racial attitudes are still a potent force in American politics, a claim supported by research linking such attitudes to opposition to racially redistributive policies (e.g., Bobo and Kluegel 1997; Bobo, Kluegel, and Smith 1997; Sears 1988; Kinder and Sanders 1996) and to ideological transformations in general (Carmines and Stimson 1989). But the precise nature and extent of the role of racial attitudes in mass political preferences are still hotly debated (Sears, Sidanius, and Bobo 2000). Some argue that a fundamental change in the politics of race in America has taken place over the last four decades, such that most Americans now evaluate policies and candidates according to their resonance with basic nonracial values such as individualism (Sniderman and Hagen 1985; Sniderman and Piazza 1993), egalitarianism, and the ideal size of government (Hurwitz and Peffley 1998; Sniderman and Carmines 1997). If so, one might predict that standard political appeals involving government spending or taxation activate more global values, and not attitudes about race in particular, even if racial cues are present. Or, finally, exposure to political messages might simply activate existing predispositions, such as party identification, bringing candidate preferences into line with these attachments (Campbell et al. 1960; Finkel 1993).

We find Mendelberg’s theoretical approach convincing, and her findings persuasive, but additional conceptual clarity and more precise testing of the fundamental assumptions of the model are necessary to understand fully the nature and extent of racial priming in modern American politics. We explore three related questions here. First, do subtle racial cues in standard political appeals actually prime racial attitudes? Much of the research demonstrating race priming via political advertisements focuses on the issue of crime or welfare spending (Gilens 1999; Jamieson 1992; Mendelberg 1997, 2001), indicating some of the ways racial attitudes can be brought to bear on political judgments. We further explore the race priming effect by testing the impact of racial cues embedded within appeals involving references to wasteful government spending and taxation, not crime or welfare.

Second, which types of cues most powerfully prime racial attitudes? Current research draws a distinction between “implicit” and “explicit” racial messages, with the Horton ad exemplifying the former because the narrator never uttered a noun such as “black” or “race” (Mendelberg 2000). We agree that explicit and implicit racial appeals should have different effects, but also suspect that variation among implicit cues is important. The set of racial cues that one might consider to be “implicit” might vary widely along several dimensions.

Some advertisements make only oblique narrative references to racialized issues, such as crime, welfare, or government spending, without presenting images of blacks or other minorities at all. For example, an advertisement run by Bob Dole’s campaign in 1996 criticized Bill Clinton for sponsoring several “wasteful spending proposals” such as “midnight basketball” and “alpine slides in Puerto Rico,” but contained no visual images of blacks.<sup>1</sup> Other appeals might emphasize racial or ethnic group comparisons with regard to access to jobs or other resources, with the goal of implying that one group is disadvantaged relative to another. An advertisement sponsored by the California Democratic Party in 1996, for example, highlighted Clinton’s efforts to stop illegal immigration. The ad was filled with images of Hispanics coming across the Mexican/American border, while the narrator claimed that these “foreign workers” were stealing jobs from “American workers.” When the narrator claimed that Clinton was working to halt the flow of illegal immigrants in order to protect “our jobs and our values,” a white family appeared on screen. Finally, advertisements could contain narrative references to these same issues accompanied by racial imagery that simply make one-sided, negative attributions about blacks without comparisons with any other group. Each of these appeals is “implicitly” racial, because none makes direct verbal reference to race. Yet the size of the priming effect they produce might vary considerably because the cues they employ differ in the perceptual salience of race or the type of racial problem invoked. In this paper, we compare three types of implicit racial cues (narrative only, visual race comparisons, and visual one-sided negative cues) to determine which produces the largest racial priming effect. We expect more salient, yet still implicit, racial cues to produce larger priming effects, thus the latter two types of cues should be strongest.<sup>2</sup>

Third, what is the psychological mechanism underlying racial priming? Previous work has assumed that cognitive accessibility moderates media-based priming effects (e.g., Iyengar and Kinder 1987; Kinder and Sanders 1996; Mendelberg 2001; Price and Tewksbury 1997; Valentino 1999). In other words, ideas and considerations that have been activated recently or often, those at the “top-of-the-head,” are more likely to be used automatically in subsequent decision-making tasks (Taylor and Fiske 1978). No study to date, however, has demonstrated that news or political advertising primes concepts in memory via this automatic process.<sup>3</sup> In fact, recent evidence suggests a much more intentioned psychological mediator: inferences about the importance of a given criterion for the decision at hand (Miller and Krosnick 2000; Nelson,

<sup>1</sup> With this type of appeal, one could presume that it was racialized only by observing its effects.

<sup>2</sup> For reasons we delineate below, we do not make a directional prediction with regard to whether group comparisons or one-sided negative depictions of blacks will produce the largest effects.

<sup>3</sup> Fazio and Williams (1986) show that more accessible attitudes have a larger impact on preferences for the 1984 presidential candidates, but they do not manipulate the accessibility of these attitudes.

Clawson, and Oxley 1997). We argue, however, that racial priming *must* be mediated by the cognitive accessibility of racial attitudes in memory. The reason is that people are motivated to suppress the outward expression of racist attitudes and behaviors (Gaertner and Dovidio 1986). When people pay close attention to a racial message, they are better able to identify and suppress priming effects (Blair and Banaji 1996). For most people, the theory goes, negative racial attitudes affect political thinking automatically or not at all.

Additional evidence about the psychological mechanism underlying race priming can be gathered by examining whether the effect is always triggered by images of blacks or if it depends upon whether the ad resonates with negative stereotypes in particular. It has been suggested that exposure to stereotype-discrepant information boosts attention to the stimulus, so that the information can be explained and either incorporated into the existing cognitive structure or rejected entirely (Brewer, Dull, and Lui 1981; Hastie 1981). If racial priming takes place automatically, the added thought stimulated by a stereotype-inconsistent cue might reduce priming (Mendelberg 2001).<sup>4</sup> Therefore, we expect that appeals that violate the stereotype of blacks as undeserving beneficiaries of government spending, or those that challenge the notion that whites deserve those same benefits, will diminish the priming effect.

To summarize, we predict that racial cues embedded in standard political appeals prime racial attitudes during campaigns. This effect should manifest itself as an increase in the impact of racial attitudes on candidate preference. Since racial cues activate primarily racial attitudes, the power of nonracial global values such as egalitarianism and individualism, or predispositions such as party identification, should not be affected as strongly. Second, we attempt to determine which types of implicit cues—those in which the narrative alone invokes racialized issues, those wherein a comparison of racial group access to valued resources is visually presented (with whites apparently disadvantaged), or those that visually imply that blacks are undeserving—most powerfully prime attitudes toward blacks. Third, we investigate whether racial priming is mediated by the cognitive accessibility of racial considerations in memory. We expect racially counter-stereotypical cues to undermine priming, ostensibly by stimulating conscious processing of the racial content of the message.

Determining the scope of racial priming, and the mechanism by which it occurs, is important for several reasons. First, if such a phenomenon exists, it suggests that racial attitudes continue to exert a powerful influence on American politics and, at least to some extent, this role is dependent on elite communication strate-

gies. Furthermore, it would indicate that racial attitudes can be activated by basic appeals about government spending, not just issues that touch directly on negative stereotypes about blacks (e.g., welfare and crime). In other words, such findings would undermine the current perception among most whites that the power of racism in American politics has largely disappeared (Schuman et al. 1997).

Second, implicit racial priming is inherently manipulative, as it encourages voters to evaluate candidates based on criteria they would likely ignore if they were aware of the intent of the appeal. Finally, implicitly racial messages may heighten social group conflicts not only by propagating negative stereotypes about racial minorities, but by reinforcing their political relevance. If we are ever to resolve the “American dilemma” (Mrydal 1944), therefore, we must understand whether and how elite communication strategies activate racial considerations in contemporary American politics. If implicit racial priming is rare or relatively weak in its effects, then our continued focus on the phenomenon would be at best a waste of intellectual energy. At worst, it might distract us from the damage that obvious and blatant racism produces.

## METHODS AND PROCEDURES

Experiments are now widely accepted as a valid method for studying political communication processes and effects such as agenda setting, priming, and framing (e.g., Iyengar and Kinder 1987; Nelson and Kinder, 1996; Nelson, Clawson, and Oxley 1997; Miller and Krosnick 2000; Iyengar 1991; Mendelberg 1997, 2001; Domke, McCoy, and Torres 1999; Valentino 1999). The method’s greatest strength is its ability to isolate the causal impact of communication factors on political attitudes and behavior. The direct manipulation of media content, coupled with random assignment of subjects to treatment and control conditions, produces strong inferences about specific elements of a message that alter citizens’ decision-making criteria. This methodology is especially useful for studying the psychological processes underlying media effects. We therefore employ an experiment to test our hypotheses about the extent and nature of implicit racial priming.

Several experimental studies of media-based priming rely on undergraduate student samples [(Miller and Krosnick 2000; Mendelberg 1997; Nelson, Clawson, and Oxley 1997); but see Iyengar and Kinder (1987); Iyengar (1991); and Mendelberg (2000) for examples of experiments employing adult samples]. The use of such samples raises concerns about the generalizability of results, since undergraduates usually have limited personal experience with the political process and therefore may be especially vulnerable to persuasive campaign communication. Therefore nonstudent adult subjects are desirable in studying the impact of political advertising on candidate evaluations.

Most racial priming studies focus exclusively on white Americans. One justification for the decision to

<sup>4</sup> Mendelberg (2001) also examines the effects of counter-stereotypic images on racial priming. However, she examines only the effects of negative portrayals of whites rather than positive portrayals of African Americans. As described more fully below, we test both scenarios.

restrict such analyses to whites is the particular interest in the impact of white racial attitudes on race-relevant policy opinion. The concept of symbolic racism (Kinder and Sears 1981; Sears 1988), in particular, was designed solely with white Americans in mind. Subsequent studies that utilize this concept, or its next-of-kin racial resentment, analyze exclusively nonblack respondents (Kinder and Sanders 1996; Mendelberg 1997, 2001). In keeping with this practice, we too focus on nonblacks, though we do so reluctantly. We believe that the theory of implicit communication applies to blacks as well as whites, though individual differences will certainly moderate the size of the effect (Lau 1988; Devine 1989). Indeed, when we run our analyses with blacks included, our results are essentially identical. We do not, unfortunately, have enough African American respondents to test adequately the theory on different racial groups separately. Ultimately, however, the theory of racial priming must be extended to include and understand the reactions of *all* audience members.

Our study was conducted in a computer lab at the Marsh Center for Journalistic Performance at the University of Michigan, with a total of 346 adult, nonstudent subjects in late June through early July of 2000.<sup>5</sup> Subjects were recruited with flyers in a downtown area, at local businesses, and in university office buildings. Our convenience sample is not perfectly representative of the nation as a whole: it contains too many college-educated respondents (42%) and too few Republicans (19%). The sample does, however, contain reasonable variation along several important demographic and attitudinal dimensions.<sup>6</sup>

Respondents were told they would receive \$15 for watching several television advertisements and answering questions about “current events.” As subjects entered the lab they were randomly assigned to one of several advertising conditions, which are described below, and then escorted to a computer terminal. To minimize interviewer biases, subjects interacted solely with the computer throughout the interview. Once the subjects completed a demographic questionnaire, the computer instructed them to don a pair of headphones and watch a series of television advertisements. Each subject viewed three advertisements. The control group viewed three common product commercials.<sup>7</sup> Those in the treatment conditions viewed two product ads and a political spot that we constructed. After viewing the ads, subjects immediately performed a lexical task designed to measure the accessibility of racial attitudes in memory. Following this task, respondents answered an extensive posttest questionnaire that included candidate evaluations, issue importance ratings, and racial

and political attitudes.<sup>8</sup> Subjects were then debriefed, paid, and dismissed.<sup>9</sup>

## THE EXPERIMENTAL MANIPULATION

One limitation of many experimental media effects studies is the absence of realistic stimuli. Producing and manipulating realistic political advertisements is technically challenging and resource intensive. As a result, most priming studies utilize news coverage, which is plentiful and easy to edit, as stimulus material (Gilliam and Iyengar 2000; Iyengar and Kinder 1987; Mendelberg 1997, 2001; Miller and Krosnick 2000; Nelson, Clawson, and Oxley 1997). Since political advertisements and campaign news coverage are likely to differ in terms of the source’s perceived credibility and motivation, we decided that it was critical to manipulate particular racial cues embedded in standard political appeals. The only way to achieve this kind of control is to construct the advertisements from the ground up. We first produced a narrative focusing on general government spending, taxes, and funding for health care. We chose George W. Bush as the sponsoring candidate because Republicans are typically viewed as most competent on economic and spending issues (Petrocik 1996). Furthermore, the Republican Party has targeted government spending on “wasteful” programs that benefited particular groups in society (Edsall and Edsall 1991). The narrative plays into these assumptions intentionally.<sup>10</sup>

A complete description of the experimental treatments used in the first part of the study is presented in Table 1. After invoking Bush’s “dedication to an America with strong values,” the male narrator contrasts Bush with Democrats who would “spend your tax dollars on wasteful government programs.” Bush, the narrator continues, pledges to cut taxes because “you know best how to spend the money you earn.” The second half of the narrative focuses on health care, with the claim that Bush will reform an “unfair system

<sup>8</sup> We treat political and racial attitudes as independent variables in our analyses. Technically, then, we should have placed all these items in the pretest. Unfortunately, we would then run the risk of priming respondents to think about race and politics *before* exposure to the advertisement, thereby confounding the potential effects of the cues we manipulated. We decided, therefore, to place these measures in the posttest. We were concerned that what we describe as “priming” effects (where candidate evaluations are brought into line with attitudes about race) might in fact be “projection” effects (where attitudes about race are brought into line with candidate evaluations). Given that racial attitudes and other political predispositions are acquired at an early age and stable throughout the life span, we felt that this was unlikely. This is also the standard procedure in many priming studies (Iyengar and Kinder 1987; Mendelberg 1997, 2001; Valentino 1999). Mean levels of racial and political predispositions did not change substantially as a function of exposure.

<sup>9</sup> Since we expose subjects to fictitious ads sponsored by an actual candidate, we provided an extensive debriefing interview to ensure that no one left with the mistaken impression that the advertisement they saw was authentic.

<sup>10</sup> We do not assume that only George W. Bush or only Republican candidates in general are capable of or motivated to prime racial attitudes. Either party may have incentives, depending on the circumstances, to activate racial or other group dimensions.

<sup>5</sup> After excluding black subjects, our sample size drops to 293.

<sup>6</sup> Women also made up about half of our sample, and conservatives represented about 30%. There were no significant differences across cells of the design in the proportions of these sociodemographic and partisan variables. Therefore, differences we observe between conditions can be attributed to the stimuli.

<sup>7</sup> These were Duralast Batteries, Staples Office Supplies, and Wall-side Windows, in that order. In the treatment conditions, those who viewed the political spot did not see the Staples commercial.

**TABLE 1. Transcripts of Implicit Race Cue Advertising Manipulation**

Narrative	Neutral Visuals	Race Comparison	Undeserving Blacks
<i>George W. Bush, dedicated to building an America with strong values</i>	George Bush in crowd shaking hands	George Bush in crowd shaking hands	George Bush in crowd shaking hands
<i>Democrats want to spend your tax dollars on wasteful government programs, but George W. Bush will cut taxes because you know best how to spend the money you earn.</i>	Image of Statue of Liberty, Treasury building Bush sitting on couch, residential street (no people)	<b>Black person counting money, black mother and child in office</b> Bush sitting on couch, <b>white person writing check, white person counting money, white teacher</b>	<b>Black person counting money, black mother and child in office</b> Bush sitting on couch, residential street (no people)
<i>Governor Bush cares about families.</i>	Laboratory workers (race unclear) looking into microscopes	<b>White parents walking with child</b>	Residential street (shot continued as above)
<i>He'll reform an unfair system that only provides health care for some, while others go without proper treatment because their employer can't afford it.</i>	Medical files	<b>White nurse assisting black mother, child</b> <b>White mother holding child</b>	<b>White nurse assisting black mother, child</b> Medical files
<i>When he's president, every hard-working American will have affordable, high-quality health care.</i>	X-rays against lit background	<b>Bush talking to white family, Bush talking to white child, Bush kissing white girl</b>	X-rays against lit background
<i>George W. Bush, a fresh start for America</i>	Bush, arm around wife. Screen reads "George W. Bush" and "A Fresh Start"	Bush, arm around wife. Screen reads "George W. Bush" and "A Fresh Start"	Bush, arm around wife. Screen reads "George W. Bush" and "A Fresh Start"

that only provides health care for some, while others go without proper treatment because their employer can't afford it." The narrator closes the 30-sec spot with the refrain, "George W. Bush, a fresh start for America."

By itself, the advertisement's narrative carries no obvious racial significance. Only if the language of wasteful government, unfair allocation of government resources, and taxation carries racial connotations for some viewers could this appeal prime attitudes about blacks. In the *neutral visuals* condition, presented in Table 1, we insert racially neutral visuals such as the Statue of Liberty, the Treasury building, and residential neighborhoods (devoid of people) over this narrative. When health care is invoked, racially ambiguous images of the medical profession appear.<sup>11</sup> The resulting ad contains no visual race cues but delivers the "wasteful government spending" message quite clearly.

In the second and third versions of the ad, visual racial cues are substituted for some of the neutral symbolism overlaying the basic narrative. In what we call the *race comparison* condition, an image of a black

person counting money is followed by that of a black woman and child in an office setting. At this point, the narrator says, "Democrats want to spend your tax dollars on wasteful government programs." As the narrator notes that Bush supports tax cuts "because you know best how to spend the money you earn," white images appear. Further, as the narrator highlights Bush's intention to "reform an unfair system that only provides health care for some . . .," an image of a black mother and child in a hospital bed are on screen. When the narrator refers to other Americans going without proper medical treatment "because their employer can't afford it," a white mother and child appear. The other visuals in the ad remain identical to those in the neutral version. Finally, in what we refer to as the *undeserving blacks* condition, the white images in the racial comparison cell are removed, so that only black images with negative connotations remain. These three versions of the ad all carry implicit racial cues: the first simply refers to issues that might carry racial significance; the second visually highlights racial comparisons, with the implication that whites are receiving fewer resources than blacks; and the third visually depicts blacks as undeserving.

<sup>11</sup> The individuals shown are wearing full-body lab coats and masks that obscure racial characteristics.

**TABLE 2. Transcripts of Counter-Stereotypic Advertising Manipulation**

Narrative	Deserving Blacks	Deserving Whites	Undeserving Whites
<i>George W. Bush, dedicated to building an America with strong values</i>	George Bush in crowd shaking hands, <b>black woman with American flag in the background, black veteran smiling</b>	George Bush in crowd shaking hands	George Bush in crowd shaking hands Image of Statue of Liberty
<i>Democrats want to spend your tax dollars on wasteful government programs, but George W. Bush will cut taxes because you know best how to spend the money you earn.</i>	Treasury building  Bush sitting on couch, <b>black person laying money on a counter</b>	Treasury building  Bush sitting on couch, <b>white person writing a check, white person counting money</b>	<b>White person counting money, white mother and child in office</b> Bush sitting on couch, residential street (no people)
<i>Governor Bush cares about families.</i>	<b>Black family using a computer, black family eating at a restaurant</b>	<b>White teacher, white parents walking with child</b>	Residential street (shot continued as above)
<i>He'll reform an unfair system that only provides health care for some, while others go without proper treatment because their employer can't afford it.</i>	Laboratory workers (race unclear) looking into microscopes <b>Black women holding baby</b>	Laboratory workers (race unclear) looking into microscopes <b>White mother holding child</b>	<b>White mother holding newborn receiving care in hospital</b> Medical files
<i>When he's president, every hard-working American will have affordable, high-quality health care.</i>	<b>Bush shaking hands with black children, black kids sitting in school yard, Bush sitting in classroom reading with black kids</b>	<b>Bush talking to white family, Bush talking to white child, Bush kissing white girl</b>	X-rays against lit background
<i>George W. Bush, a fresh start for America</i>	Bush, arm around wife. Screen reads "George W. Bush" and "A Fresh Start"	Bush, arm around wife. Screen reads "George W. Bush" and "A Fresh Start"	Bush, arm around wife. Screen reads "George W. Bush" and "A Fresh Start"

To test the impact of stereotype-inconsistent cues, three additional versions of the ad are constructed by rearranging the timing of the visual race cues. Transcriptions of these versions are detailed in Table 2. First, we attempt to produce positive connotations about blacks by inserting images of blacks at the point when the narrator claims, "You know best how to spend the money you earn." Blacks are also shown when the narrator mentions that Bush "cares about families" and when he states that under Bush "every hard-working American will receive affordable, high-quality health care." We call this condition the *deserving blacks* condition, it provides a direct, counter-stereotypical comparison to the cell involving blacks as undeserving beneficiaries of government spending. The final two versions of the ad depict whites as either deserving (labeled *deserving whites*, in column 3) or undeserving (labeled *undeserving whites*, in column 4) beneficiaries of government spending. These additional cells create a comparison between stereotype consistent versus inconsistent cues that target either whites or blacks.

**RESULTS**

Our first hypothesis predicts racially coded appeals will boost the explanatory power of racial attitudes on candidate evaluations. To test this, we estimate the impact of racial attitudes on vote choice across the conditions of the design. The dependent variable ranges from 0 to 1, with higher values indicating greater support for Bush relative to Gore. We examine three measures of racial attitudes: racial resentment, laissez-faire racism, and perceived influence of blacks. Though they are composed of different survey items, these indicators are conceptually interrelated. The racial resentment scale is based on the contention that "blacks do not try hard enough to overcome the difficulties they face and that they take what they have not earned" (Kinder and Sanders 1996, 106).<sup>12</sup> The concept of laissez-faire racism springs from the idea that maintenance of racial

<sup>12</sup> See the Appendix for exact question wordings. Cronbach's  $\alpha$  for the racial resentment scale was 0.78.

**TABLE 3. Predicting Candidate Preference with Racial Attitudes and Racialized Issue Opinions, by Condition**

Dependent Variable Is Candidate Preference (Bush = High)	Racial Attitudes			Racialized Issue Opinions	
	Racial Resentment	Laissez-Faire Racism	Blacks Have Too Much Influence	Opposition to Affirmative Action	Opposition to Welfare Spending
Attitude or opinion (see column heading)	0.01 (0.19)	-0.30 (0.20)	-0.12 (0.17)	-0.19 (0.16)	-0.09 (0.19)
Neutral visuals	-0.18 (0.17)	-0.23 (0.15)	-11 (0.15)	-0.23 (0.15)	-0.10 (0.14)
Race comparison	-0.11 (0.18)	-0.26 (0.17)	-0.18 (0.16)	-0.03 (0.17)	-0.01 (0.15)
Undeserving blacks	-0.22 (0.19)	-0.31* (0.16)	-0.27* (0.15)	-0.25 (0.16)	-0.18 (0.14)
Attitude or opinion × neutral visuals	0.41 (0.29)	0.49* (0.26)	0.25 (0.25)	0.45* (0.24)	0.24 (0.27)
Attitude or opinion × race comparison	0.35 (0.29)	0.61* (0.30)	0.46* (0.26)	0.18 (0.27)	0.17 (0.30)
Attitude or opinion × undeserving blacks	0.61* (0.37)	0.77** (0.31)	0.60** (0.25)	0.51* (0.25)	0.53* (0.28)
Number of cases	156	156	156	156	156
Adjusted <i>R</i> <sup>2</sup>	0.21	0.22	0.23	0.21	0.20

*Note:* Entries are ordinary least-squares regression coefficients. The dependent variable is the 5-point candidate preference item, running from strong support for Gore to strong support for Bush. This variable has been recoded to run from 0 to 1. The impact of each attitude scale is estimated separately. Baseline effect corresponds to the main effect of racial attitude/issue opinion in the control condition. Incremental effects are estimated with interactions between treatment dummy variables and the attitude/issue. Controls in each analysis, not shown here, include political ideology, gender, and educational attainment. Sample sizes for each cell were as controls: control = 49; Neutral visuals cell = 43; race comparison cell = 31; undeserving blacks cell = 35. \**p* < 0.05; \*\**p* < 0.01. Predictions are unidirectional; significance tests are one-tailed.

hierarchies no longer requires widespread endorsement of the idea that blacks are genetically inferior to whites (Bobo, Kluegel, and Smith 1997). Instead, it presumes only that all major obstacles facing blacks as a group have been removed. As a result, government-sponsored efforts to address racial inequality are unnecessary.<sup>13</sup> A third indicator focuses more narrowly on perceived racial conflict: the extent to which blacks have “too much influence in American life and politics.” We include results for all three of these indicators in part to check the robustness of the priming effect across measures of similar concepts. However, one might expect that the last two concepts, which tap into competition between whites and blacks for societal resources, should be primed most powerfully by the race comparison cues, while racial resentment may be activated most powerfully by the undeserving blacks condition.

Table 3 displays the results of our first test. Each column represents a separate OLS regression equation where the candidate preference scale is regressed upon a given racial attitude or issue opinion measure (listed in the column head), dummy variables for each treatment condition (with the control group as the excluded category), and interactions between the racial attitude measure and each dummy variable to capture the slope shift associated with exposure to each ad. With this specification, we can compare the baseline

effect of racial attitudes with the impact of those same attitudes in the presence of various primes. To guard against the possibility that differences in the distribution of sociodemographic or political variables across cells of the design might account for differences we observe, controls for global ideology, gender, and education are included.<sup>14</sup> The functional form of the model is as follows:

$$\begin{aligned}
 \text{Candidate Preference} = & B_1(\text{Racial Attitude}) \\
 & + B_2(\text{Neutral Visuals}) \\
 & + B_5(\text{Neutral Visuals} * \text{Racial Attitude}) \\
 & + B_3(\text{Race Comparison}) \\
 & + B_6(\text{Race Comparison} * \text{Racial Attitude}) \\
 & + B_4(\text{Undeserving Blacks}) \\
 & + B_7(\text{Undeserving Blacks} * \text{Racial Attitude}) \\
 & + B_{8-10}(\text{Controls}) + \text{Constant}
 \end{aligned}$$

Our hypotheses hinge most directly on the direction and magnitude of coefficients *B*<sub>1</sub>, *B*<sub>5</sub>, *B*<sub>6</sub> and *B*<sub>7</sub>. Tables 3 and 4 present all the coefficients in the model

<sup>13</sup> See the Appendix for exact question wordings. Cronbach’s *α* for the laissez-faire racism scale was 0.79.

<sup>14</sup> There are no significant differences in the distributions of these variables across cells, and excluding these controls does not alter the direction or magnitude of the results.

**TABLE 4. The Impact of Partisan Identification and Global Values on Candidate Preference, by Condition**

Dependent Variable Is Candidate Preference (Bush = High)	Party Identification	Individualism	Egalitarianism
Attitude (see column heading)	0.91** (0.18)	0.20 (0.17)	-0.06 (0.15)
Neutral visuals	0.19 (0.14)	0.03 (0.14)	0.10 (0.11)
Race comparison	0.25* (0.15)	0.08 (0.16)	0.14 (0.11)
Undeserving blacks	0.05 (0.14)	-0.08 (0.15)	0.11 (0.11)
Attitude × neutral visuals	-0.27 (0.26)	-0.03 (0.23)	-0.17 (0.20)
Attitude × race comparison	-0.30 (0.27)	-0.05 (0.26)	-0.15 (0.21)
Attitude × undeserving blacks	-0.02 (0.25)	0.16 (0.25)	-0.17 (0.20)
Number of cases	156	156	156
Adjusted $R^2$	0.32	0.04	0.05

Note: Entries are ordinary least-squares regression coefficients. The dependent variable is the 5-point candidate preference item, running from strong support for Gore to strong support for Bush. This variable has been recoded to run from 0 to 1. The impact of each attitude scale was estimated separately. Baseline effect in first row corresponds to the main effect of racial attitude in the control condition. Incremental effects are estimated with interactions between treatment dummy variables and the attitude/issue opinion listed in the column head. Controls in each analysis include gender and educational attainment. Sample sizes for each cell were as follows: control = 49; neutral visuals cell = 43; race comparison cell = 31; undeserving blacks cell = 35. \* $p < 0.05$ ; \*\* $p < 0.01$ . Significance tests are one-tailed.

except for the controls.<sup>15</sup> Our predictions are directional: If racial attitudes are primed, the interactions will be positive.

Entries in the first row in Table 3 are estimates of the baseline effect of each racial attitude/issue measure on the candidate preference scale. The intercept shifts associated with exposure to each advertising condition are located in the second, third, and fourth rows. All of these coefficients, across all attitudinal dimensions, are negative. This means that for those very low in racial resentment or other forms of racial conservatism, seeing any of our ads boosts support for Gore. These main effects make sense intuitively, since subjects these subjects are perhaps prone to vote for Gore to begin with. However, these coefficients are rarely statistically significant. More important for our hypothesis are the slope shifts between the control group and each treatment group, presented in rows 5 through 7. To calculate the overall effect of a given attitude among those exposed to a particular ad, one must combine the baseline effect in the first row with the slope shift represented by the interaction coefficient of interest in that same column.

Reading down the rows in the first column, we see that *racial resentment* has little effect on support for Bush among those subjects who did not view a political advertisement. The interaction in the fourth row indicates that, among those who saw an ad with neutral visual cues, the impact of racial resentment is boosted.

<sup>15</sup> Results for the full model are available upon request from the first author.

The resulting association between this racial attitude and preference for Bush over Gore in this condition is 0.42 (0.01 + 0.41). In the fifth row, we see that the priming effect of the race comparison cues is substantively similar to that of the neutral version (0.35). Neither of these slope shifts is statistically significant, but their direction is consistent with the first hypothesis. Finally, in the undeserving blacks condition, the impact of racial resentment reaches its zenith, at 0.62 (0.01 + 0.61). This statistically significant shift indicates a large substantive effect: In the presence of the undeserving blacks cue, moving from the lowest to the highest level of racial resentment produces a shift across more than half of the entire candidate preference scale running from Gore to Bush.

The basic pattern of results is strongly replicated when our attention shifts to other measures of racial attitudes. The impacts of *laissez-faire racism* and *blacks have too much influence* are statistically indistinguishable from 0 in the control group but grow large and positive for respondents who see ads containing implicit racial primes. The racial comparison condition strongly primes both of these attitude dimensions. Across all three measures, however, the race priming effect is largest in the undeserving blacks condition.

The last two columns in Table 3 examine whether implicit race cues prime racialized policy opinions as predictors of candidate preference. *Opposition to affirmative action* is statistically unrelated to candidate preference among those who saw no political advertisement. All three versions of the advertisement, however, produce a positive relationship between these

variables, and the difference reaches statistical significance for the neutral visuals and undeserving blacks conditions. The same basic pattern is replicated for *opposition to welfare spending* for the poor. In other words, the impact of the race comparison cues is somewhat weak as a prime for opinions about these racialized policies, while the undeserving blacks condition produces a large effect.

These results confirm our suspicion about the power of subtle racial cues. However, it is possible that some other set of predispositions or values is actually activated by these appeals and that our indicators of racial attitudes simply covary with those other dimensions. Next, therefore, we focus on partisanship and global values such as individualism and egalitarianism. If our ads prime these dimensions, the pattern of relationships between them and candidate preference should be similar to that observed for racial attitudes across the cells of the design. The evidence presented in Table 4, however, suggests that this is not the case. The results for *party identification* are presented in the first column. In the first row, we see that party identification is a powerful predictor of candidate preference in the baseline condition. Exposure to racial cues, however, does nothing to boost this relationship.<sup>16</sup> In fact, the impact of partisanship declines slightly, though not significantly, in the presence of race cues.

These ads may also activate nonracial values such as individualism and egalitarianism.<sup>17</sup> Indeed, the narrator invokes the size of government, taxation, and fairness in the distribution of health care resources. However, the results in the second and third columns in Table 4 do not provide much support for these alternative hypotheses. *Individualism* is never very strongly or significantly related to vote preference. The impact of individualism is smaller in the neutral visuals and race comparison visuals cells, and slightly larger in the undeserving blacks condition, but none of these differences approaches statistical significance. The case for *egalitarianism* is also weak. If the our ads primed that dimension, then egalitarians should be *more* likely to support Bush after seeing it because he makes a special plea for equal treatment. In fact, the relationship is negative in the control group and is more negative in each of the ad conditions, as the interactions in the fifth through seventh rows suggest. In other words, these cues make egalitarians slightly *less* likely to support Bush. None of these differences is statistically significant, however, and the overall pattern suggests that nonracial political orientations were not primed at all.<sup>18</sup>

<sup>16</sup> Party identification is measured in the standard way, drawn directly from the National Election Studies, and collapsed to form a 7-point scale running from strong Democrat to strong Republican.

<sup>17</sup> These concepts are measured with standard National Election Study items. For question wording, see the Appendix.

<sup>18</sup> We could have tested these alternatives with a saturated model containing all condition dummies, each attitude dimension, and interactions between condition dummies and attitudinal measures. This would have produced a large and unwieldy model to present. We therefore tested each of these dimensions separately, assuming that the absence of changes in the bivariate relationship indicates an absence of priming. It is difficult to imagine how these nonracial

## THE PSYCHOLOGICAL MEDIATOR OF RACIAL PRIMING: ACCESSIBILITY OR IMPORTANCE?

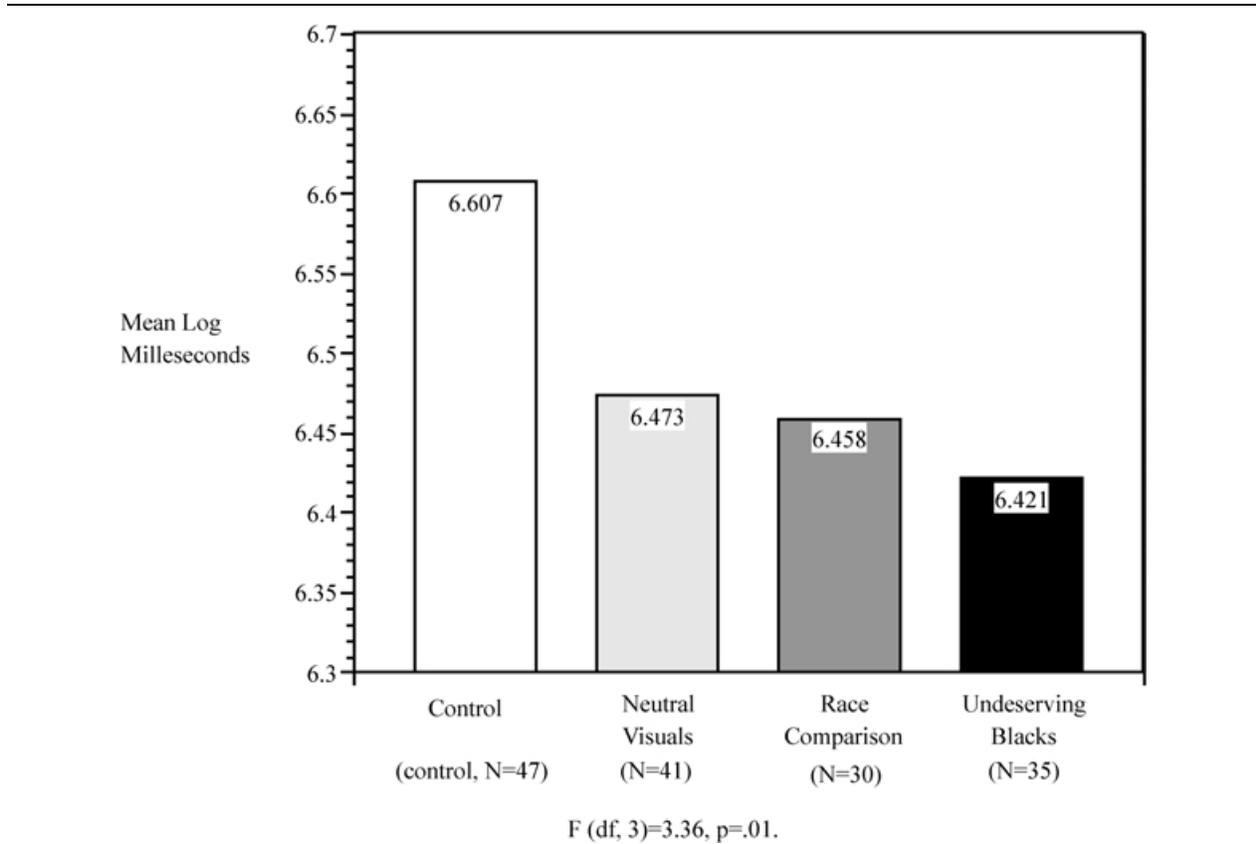
The results presented thus far suggest that a variety of implicit racial cues, embedded in appeals about non-racial issues, can serve as racial primes, especially those implying that blacks are undeserving recipients of government spending. However, we still know little about the particular psychological process underlying these effects. The theory proposed by Mendelberg (2001) identifies accessibility as the mediator: racial attitudes are made more accessible in memory such that they are automatically employed in subsequent decisions. We tested for accessibility effects in the standard way, using a lexical task identical to the one employed by Nelson, Clawson, and Oxley (1997), who in turn draws on a technique developed by Fazio (1990). Immediately after viewing the ads, subjects were told that they would need to discriminate between words and nonsense letter strings flashed on the computer screen by pressing keys marked on the keyboard.<sup>19</sup> Subjects were asked to perform this task “as quickly and accurately as possible” and were given several trial letter strings for practice. A randomized series of letter strings was then flashed on the screen, one at a time. Five words were intended to be race-relevant, including “black,” “white,” “lazy,” “drug,” and “crime.” Nonracial filler words (“cars,” “yellow,” and “blue”) were also shown as distractors. Nonsense letter strings included “awor,” “clipt,” “dryck,” “fsapt,” “gammr,” “poprq,” “selft,” and “lramp.” The length of time between the appearance of the letter string and the pressing of a key was measured by the computer. The time to respond to the letter string was transformed via natural log to normalize the distribution, and extreme outliers were removed. The basic assumption underlying this task is that respondents will take less time to identify race-relevant words when race has been primed. Previous research has shown this technique to be a valid measure of cognitive accessibility (Fazio 1990).

Figure 1 suggests that racial cues increased the accessibility of racial schemas in memory. Compared to the control group, each of the three advertising conditions records faster response times to race relevant words (neutral visuals,  $t = 2.17$ ,  $p < 0.05$ ; racial comparison visuals,  $t = 2.12$ ,  $p < 0.05$ ; undeserving blacks visuals,  $t = 3.01$ ,  $p < 0.01$ ). An analysis of variance reveals the significance of the overall trend ( $F = 3.36$ , 3 df,

attitudes could be primed in the omnibus model if effects are absent using the bivariate setup.

<sup>19</sup> We choose to measure accessibility immediately after the stimulus for all subjects. Other studies, including those by Nelson et al. (1997) and Miller and Krosnick (2001), do not measure accessibility and importance for every subject, because of the concern that the accessibility task might signal what the experimenters deem important, thereby creating a demand that might affect importance ratings appearing later in the questionnaire. We find this implausible in the current study, because the judgment made (word versus nonsense string) is unrelated to racial attitudes, the advertising stimuli, or politics in general. Still, if such demands exist, this test is a conservative one because they should depress differences between control and treatment groups.

**FIGURE 1. The Impact of Exposure to Advertising Race Cues on Response Time to Race-Relevant Word Probes**



Note: Bars represent mean log milleseconds of response time for race-relevant word probes. Race-relevant word probes included “white,” “black,” “drug,” “lazy,” and “crime.” The analysis of variance used to estimate the significance of differences between conditions included controls for education, gender, and ideology.

$p < 0.01$ ). These results corroborate the previous evidence that racial cues prime viewers’ attitudes about blacks, but they also illuminate the psychological mechanism: the accessibility of those attitudes in memory. The narrative alone did much of the work, but adding visual racial cues boosted the accessibility of these attitudes even further. Finally, to control for individual differences in reading speed, the response time to filler words was subtracted from the response time to race-relevant words. The pattern of results across the cells is unchanged for this relative response time measure, with the undeserving blacks and racial comparison conditions producing the fastest scores ( $F = 2.91, 3 \text{ df}, p < 0.05$ ).

Extending the work of Nelson, Clawson, and Oxley (1997) and Miller and Krosnick (2001), we hypothesize that these ads may alter the level of *importance* viewers assign to group representation in candidate evaluations. Their results suggest that this difference in importance, and not simply the increased accessibility of racial schemas in memory, could drive the slope shifts displayed in Table 3. We examine this possibility by asking respondents to rate the importance of various criteria in their own voting calculus. One item read, “When you evaluate a candidate for president, how important

are the groups in society the candidate cares about?” Racial cues might boost the mean score on this item if the importance of group representation mediates the impact of the appeal. There is some evidence that this occurs. The importance of group concerns is slightly higher in the neutral and racial comparison cells (5.23 and 5.13, respectively, on a 1–7 scale) than in the control (4.82), though neither of these differences reaches statistical significance. However, the mean importance of groups in the undeserving blacks condition is even higher (5.71), and this difference is significant ( $t = 2.46, p < 0.01$ ). The overall trend, however, falls short of statistical significance ( $F = 1.44, 3 \text{ df}, p = 0.23$ ). In sum, the undeserving blacks condition seems to boost the importance of groups as a voting criterion, while the neutral and racial comparison cues do not.

These results suggest that exposure to implicit racial cues, especially the undeserving blacks cues, makes racial attitudes more accessible *and* makes group concerns more important in the voting calculus. Therefore, we need another test to determine whether accessibility or importance ratings actually mediate the racial priming effect. According to the technique employed by Miller and Krosnick (2000), accessibility will be determined to mediate priming if the interaction between

**TABLE 5. Accessibility Versus Importance as Mediators of Priming Effects of Ads on Candidate Preference**

Dependent Variable Is Candidate Preference (Bush = High)	Model		
	Racial Accessibility	Group Importance	Joint
Racial resentment	-0.07 (0.17)	0.49 (0.39)	0.24 (0.41)
Accessibility of race	-0.23* (0.12)	—	-0.23* (0.12)
Group importance	—	0.04 (0.04)	0.04 (0.04)
Racial resentment × accessibility of race	0.44* (0.22)	—	0.44* (0.22)
Racial resentment × group importance	—	-0.04 (0.07)	-0.05 (0.07)
Number of cases	153	156	153
Adjusted $R^2$	0.23	0.21	0.22

*Note:* Entries are unstandardized ordinary least-squares regression coefficients. The dependent variable is the 5-point candidate preference item, running from strong support for Gore to strong support for Bush. This variable has been recoded to run from 0 to 1. Controls in these analyses include gender, education, and political ideology. \* $p < 0.05$ . Significance tests are one-tailed.

accessibility and racial resentment is positive and statistically significant. In our study, this would mean that racial resentment would be boosted as a predictor of candidate evaluations primarily among those for whom race is accessible in memory. The alternative hypothesis is that citizens employ a more intentioned psychological process when evaluating candidates, such that racial resentment plays a larger role among those who decide that “the groups in society that the candidate cares about” is an important vote criterion. The results of these analyses appear in Table 5.

In the first column in the table, we estimate the effects of accessibility, racial resentment, and the interaction between the two on candidate evaluations.<sup>20</sup> For ease of interpretation, we split the response time difference scores at the median.<sup>21</sup> The coefficient in the second row corresponds to the effect of race accessibility on candidate preference when the racial resentment score is 0. This term is negative, suggesting that among those lowest in racial resentment, making race accessible leads to support for Gore. The interaction term captures the difference in the impact of accessibility as racial resentment grows. This interaction is positive and significant, implying that at higher levels of racial resentment, the accessibility of race boosts support for Bush.<sup>22</sup> The second column tests the alternative hypothesis, that inferences about the importance of group concerns mediates racial priming. If so, racial attitudes should be a better predictor of candidate evaluations among those for whom group concerns are considered

important. This does not appear to be the case. The interaction between group importance and racial attitudes is small and in the wrong direction. The third column presents the estimates for the joint model and finds accessibility undiminished as a mediator of racial priming. Overall, these results suggest that racial cues make racial concerns more accessible in memory, subsequently boosting the impact of these concerns on candidate evaluations.<sup>23</sup>

To this point, the analyses focus on stimuli that conform to racial stereotypes. Blacks are depicted as undeserving beneficiaries of, and whites are shown bearing the tax burden for, “wasteful government programs.” In the second set of experimental conditions, we compare the power of stereotype consistent versus inconsistent cues as racial primes. Remember from Table 2 that we create a “deserving blacks” condition that implies that blacks are hardworking Americans supporting unidentified “others.” Next we replace images of blacks in the undeserving blacks condition with whites, thereby producing an “undeserving whites” condition. Finally, we create a condition that places whites in a positive light, without any images of blacks, as a baseline against which to compare the undeserving whites cell. These additional three cells contain a total of 135 subjects beyond those analyzed above.

The prediction is that stereotype inconsistent cues might lead to more intentioned thought, thereby suppressing racial priming effects. Table 6 replicates the basic analyses from Table 3, with regard to the strength of racial attitudes as predictors of candidate preference when the black stereotype is violated. In the first row we import the previous results from the undeserving blacks condition. Recall that this cell produced powerful race priming effects, as indicated by the positive relationship

<sup>20</sup> The constant and controls for ideology, gender, and education are not presented here.

<sup>21</sup> Results are substantively equivalent and remain statistically significant when the full linear measure is employed.

<sup>22</sup> Note that this effect is pooled across all the cells of the design. The three-way interaction, accessibility × racial attitudes × exposure to ad, would test the hypothesis that accessibility would mediate priming differentially, depending on the salience of race in the ad. This is possible, but not predicted by the theory of implicit communication.

<sup>23</sup> We also ran these analyses for the other two racial attitude measures (laissez-faire racism and “blacks have too much influence”). The results are almost-identical in direction and magnitude.

**TABLE 6. Violating Negative Black Stereotypes and the Effect of Racial Attitudes on Candidate Preference**

Dependent Variable Is Candidate Preference (Bush = High)	Racial Resentment	Laissez-Faire Racism	Blacks Have Too Much Influence
Racial attitude (see column head)	0.67* (0.38)	0.45 (0.29)	0.46* (0.21)
Deserving blacks	0.35 (0.22)	0.35* (0.18)	0.02 (0.17)
Deserving blacks × racial attitude	-0.80* (0.43)	-0.83* (0.35)	-0.09 (0.28)
<i>N</i>	79	79	79
Adjusted <i>R</i> <sup>2</sup>	0.11	0.13	0.17

*Note:* The dependent variable is the 5-point candidate preference item, running from strong support for Gore to strong support for Bush. The impact of each attitude scale on candidate preference is estimated separately. Controls in each analysis, not shown here, include gender, educational attainment, and ideology. Cell sizes are as follows: negative black visuals = 35; positive black visuals = 45. \**p* < 0.05. Significance tests are one-tailed.

**TABLE 7. Violating Positive White Stereotypes and the Effect of Racial Attitudes on Candidate Preference**

Dependent Variable Is Candidate Preference (Bush = High)	Racial Resentment	Laissez-Faire Racism	Blacks Have Too Much Influence
Racial attitude (see column head)	0.22 (0.21)	-0.04 (0.18)	0.02 (0.16)
Undeserving white visuals	-0.12 (0.19)	-0.14 (0.17)	-0.19 (0.16)
Undeserving white visuals × racial attitude	0.22 (0.31)	0.27 (0.30)	0.35 (0.27)
Number of cases	88	88	88
Adjusted <i>R</i> <sup>2</sup>	0.20	0.17	0.19

*Note:* The dependent variable is the 5-point candidate preference item, running from strong support for Gore to strong support for Bush. The impact of each attitude scale on candidate preference is estimated separately. Controls in each analysis, not shown here, include gender, educational attainment, and ideology. Cell sizes are as follows: positive white cue = 57; negative white cue = 33. \**p* < 0.05. Significance tests are one-tailed.

between all three racial attitude measures and the vote. When the black racial cues are stereotype-inconsistent, however, the relationship between racial attitudes and the vote disappears, as indicated by the large negative interaction term in the third row. Violating racial stereotypes with positive images of blacks dramatically undermines racial priming. The presence of black images alone, therefore, does not prime negative racial attitudes. The effect emerges only when the pairing of the visuals with the narrative subtly reinforces negative stereotypes in the mind of the viewer.

Table 7 compares the impact of white stereotype-consistent versus inconsistent cues, and a somewhat different pattern emerges. First, none of the coefficients in the deserving white condition is very large, suggesting that this cue did not produce a strong relationship between racial attitudes and candidate preference. However, cues implying that whites are the undeserving beneficiaries of government spending *boost* the impact of racial attitudes on the vote. Only the increase in the impact of the *blacks have too much influence* item even approaches statistical significance (*p* = 0.09, one-

tailed), but the overall pattern implies that violating positive stereotypes of whites is not the same as violating negative stereotypes of blacks in terms of racial priming.<sup>24</sup>

Violating the negative black stereotype did not make racial considerations more accessible in memory relative to the control group (mean difference = 0.04 log msec, *p* = 0.87). Violating the white stereotype did produce slightly faster response times to race relevant words, but the difference was not statistically significant (mean difference = 0.30 log msec, *p* = 0.19). On the other hand, the deserving blacks condition boosted

<sup>24</sup> These findings also allay our concern that the lexical task, and not simply our ads, primed respondents to think about race in the visually neutral condition. If such a task were powerful enough to racialize the neutral stimulus, we would expect that it might also racialize the versions of the ads with positive or negative depictions of whites. This does not happen. The impact of racial attitudes is not significantly different in the control condition compared to the positive or negative white conditions. The absence of visual race cues in the neutral cell must permit viewers to “fill in” the stereotypical group, blacks.

the self-reported importance of group considerations in the vote calculus relative to the control (mean difference = 0.65 on a 1–7 scale,  $p = 0.03$ ). The undeserving whites condition also significantly boosted the importance of group considerations compared to the control (mean difference = 0.91,  $p = 0.01$ ). This pattern suggests that counter-stereotypical cues do not make racial attitudes more accessible but, instead, may induce conscious processing of the racial content of the message, thereby increasing the self-reported importance of groups. We speculate about the explanation for this last set of results in the discussion.

## DISCUSSION

We set out to explore how standard political appeals alter the criteria citizens use to select candidates. Three major findings emerge. First, our evidence is consistent with Edsall and Edsall's (1991) claim that the language of government spending and taxation has become racially "coded," such that its invocation in political appeals primes racial considerations even in the absence of racial imagery. More powerful effects emerge, however, when the imagery in political ads links blacks to the narrator's comments about undeserving groups. Ads that visually compare the interests of whites and blacks are slightly less powerful racial primes. Furthermore, none of the cues we manipulate prime individualism, egalitarianism, or partisan identification. We also find that racial priming is mediated by the accessibility of race in memory, not the self-reported importance of group representation. Finally, counter-stereotypic black cues suppress racial priming, while violating positive stereotypes of whites has, if anything, a positive racial priming effect.

Though the differences are small, the particular effects of the racial comparison versus the undeserving black cues conditions warrant further attention. One somewhat subtle pattern emerges from the finding that racial comparison cues primed racial attitudes that tapped the notion of resource competition in society (*laissez-faire* racism and "blacks have too much influence") more powerfully than they primed direct resentment toward blacks or opinions about affirmative action or welfare. The undeserving blacks cues, however, powerfully primed all three racial attitude dimensions, as well as opinions about redistributive policies such as affirmative action and welfare. This pattern suggests that raising negative attributions about blacks, without referring to implications for whites, is a powerful political strategy. Highlighting resource competition is a somewhat weaker priming agent. Why might this be the case? Two explanations seem plausible. First, the salience of the racial stimulus in the comparison condition may have been diluted by the presence of white images. On the other hand, the salience of the racial stimulus in that condition may have been so high that subjects became conscious of it and consequently suppressed racial criteria in evaluating candidates. Given that the salience of the racial stimulus and the specific problem that it raised are confounded in these two con-

ditions, we must reserve judgment with regard to which explanation is correct.

Interesting differences in priming effects appear when racial stereotypes are violated in different ways. Although neither the black nor the white counter-stereotypic cells significantly boosted the accessibility of race compared to the control group, both significantly raised the self-reported importance of group representation as a voting criterion. However, violating black stereotypes produces far weaker associations between racial attitudes and candidate evaluations than conforming to them did. Finally, violating the white stereotype slightly boosted the impact of racial attitudes compared to reinforcing the white stereotype. This pattern suggests that violating stereotypes may trigger increased attention and conscious processing of the stimulus, but the result for racial priming depends on the group involved. When the violated stereotype involves blacks, white respondents who wish to avoid race-based decision making suppress race as a criterion in their vote, even as they claim that group representation is important. When the white stereotype is violated, however, racial criteria are not suppressed because there is no obvious way that responding one way or another could be considered racist. Ironically, then, the increased importance of groups slightly boosts the association between racial attitudes and candidate evaluations in that instance.

The above speculation about the overall pattern of findings presented here is consistent with research demonstrating that priming is more powerful when subjects do not attend closely to the stimulus (Lombardi, Higgins, and Bargh 1987; Strack et al. 1993). Research on social categorization and group stereotyping also suggests that these processes operate mostly below the level of conscious awareness (Banaji and Hardin 1996; Bargh and Pietromonaco 1982). Mendelberg (2001) finds support for this as well, though she draws a dichotomous distinction between "implicit" appeals whose narratives do not mention racial groups and "explicit" ones that do. We think that it would be more useful to think of the underlying racial salience dimension as continuous: As the salience of race increases, the power of racial priming grows, until some point at which each viewer becomes conscious of the prime and begins to suppress race as a criterion. Our present findings merely provide a hint of evidence to support this claim: Some implicit cues seem more powerful than others in priming racial attitudes.

Our central finding, that subtle racial cues in political advertising can prime racial attitudes, should encourage investigations of racial priming effects beyond the classic instances of the 1988 Willie Horton ads, the Helms "White Hands" ad, and other racial appeals. It seems reasonable to expect that candidates will attempt to infuse particular group cues into the political debate, to shape the criteria that citizens use when evaluating candidates. If, as many suggest, attitudes about groups help voters organize the political world (Campbell et al. 1960; Converse 1964; Conover 1984), then priming those attitudes should comprise an effective communication strategy for candidates when they expect a

large proportion of the “activated” group to vote for them.

Our results are consistent with Mendelberg’s (2001), but we do not agree with all of her conclusions. Highly salient, or explicit, racial appeals may be less effective than more subtle or implicit ones, because some voters might intentionally avoid racial criteria when they become aware of them. Similarly, stereotype-inconsistent cues may also suppress priming by making people spend time thinking about how to reconcile the new information with prior beliefs. However, this does not necessarily mean that a different candidate will be preferred. Sensitizing people to the racial content of an appeal may undermine its persuasive impact, or it may lead to a more involved set of rationalizations to justify support for a prior choice. Individuals might suppress the expression of racial conservatism while leaving their candidate preference unchanged, thereby reducing the correlation between racial attitudes and vote choice. Further research on the behavioral consequences of long-term exposure to racial cues, varied across a wide range of perceptual salience, is needed.

These results leave several questions unanswered. First, further exploration is needed to determine the message characteristics that drive automatic, versus intentional, priming effects. Prior work has found little evidence that accessibility mediates the impact of media exposure. Why do we get such strong and consistent results in this regard? One speculation is that the stimuli and the judgment tasks used in previous studies demand more conscious thought, thereby overwhelming subtler, automatic effects. Nelson, Clawson, and Oxley (1997), for example, had subjects view news stories about a Ku Klux Klan rally, framed in terms of either free speech or public order. The dependent variable in their analysis was tolerance for racist groups. Perhaps these stimuli, and the judgments they were designed to affect, required more careful consideration than was present in the political appeals and judgments we are concerned with in this paper. When either the priming stimulus or the target decision requires a great deal of conscious attention, we expect racial priming to be diminished. In the case of exposure to 30-sec advertisements and candidate preference formation, however, racial priming may exhibit quite pervasive effects.

Our results are based on a disproportionately educated and Democratic sample compared to the nation as a whole. We are somewhat reluctant, therefore, to generalize our findings to all citizens. However, studies employing entirely different samples have discovered similar effects (Mendelberg 2001; Reeves 1997; Valentino 1999). Further, by exposing a largely Democratic audience to a Republican message, ours is probably a conservative test of the theory, because priming may be more powerful when the party of the sponsor matches the partisan leanings of the viewer (Ansolabehere and Iyengar 1995). Nevertheless, studies that vary source characteristics and test racial priming hypotheses across a wider demographic and partisan range are warranted.

## CONCLUSION

The evidence provided here, in combination with recent theoretical and empirical advances, suggests that a broadening of the debate about race in American politics is necessary. Far from being a spent force, the impact of race and racism in America can emerge from some of the most common political messages that mainstream candidates rely upon as their stock-in-trade. But this force is not overwhelming and constant, nor is it beyond the power of elites and masses to control. When campaigns emphasize policies that have been linked previously to blacks, they boost the impact of racial attitudes on candidate evaluations. When they reinforce negative stereotypes, the impact of racial attitudes grows. But when they violate those stereotypes by presenting blacks in a favorable light, or present images of nonstereotyped groups in these negative roles, that impact declines. When citizens are aware of the racial cues in a particular message, they seem to suppress racial thinking.

Unfortunately, the potential remedies for race priming we can offer—violating negative stereotypes, avoiding overemphasis on racialized issues—are meager, short-term fixes for a larger problem. By priming group attitudes, candidates take advantage of the ways citizens store political information in memory and attempt to simplify decision making. How, then, might one control some of the more pernicious effects of implicit racial priming during campaigns? A start would be to reduce elite incentives to prime racial attitudes in the first place, by breaking down invalid linkages between groups and social problems from which stereotypes spring. For example, the public’s misperception of the proportion of welfare recipients who are African American could perhaps be remedied if news organizations took a proactive stance against perpetuating these inaccurate, negative stereotypes (Gilens 1999). Subsequently, invoking welfare issues, even coupled with images of blacks, might not pack the same punch when it comes to priming racial attitudes. The more general version of this plea is as controversial in some circles as it is commonsensical in others: We must engage in honest public discussion of the ways in which race, gender, and other group cleavages affect policymaking, election outcomes, and day-to-day living conditions in America. To begin this dialogue, we must recognize that implicit racial cues have been, and continue to be, cues that matter.

## APPENDIX: SCALE/INDEX CONSTRUCTION

*Racial resentment* consisted of four items, agree strongly to disagree strongly, recoded so that high values mean more racially conservative responses. Four items were additively scaled. (1) “The Irish, Italians, Jews and many other minorities overcame prejudice and worked their way up. Blacks should do the same without any special favors.” (2) “Generations of slavery and discrimination have created conditions that make it difficult for blacks to work their way out of the lower class.” (3) “It is really a matter of some people not trying hard enough; if blacks would only try harder they could be just as well off as whites.” (4) “Over the past few

years, blacks have gotten less than they deserve." Cronbach's  $\alpha = 0.78$ .

*Laissez-faire racism* consisted of the three items, coded so that higher values indicate denial of discrimination, and additively scaled. The battery began with the statement, "Some people think that discrimination against blacks is a big problem in this country, while others think that it is not a big problem. We would like to know what you think about it." (1) "How much discrimination would you say there is that hurts the chances of blacks to get good-paying jobs?" (1 = a lot through 5 = none at all). (2) "How much discrimination would you say there is that makes it hard for blacks to buy or rent housing wherever they want?" (1 = a lot through 5 = none at all). (3) "On average blacks have worse jobs, income, and housing than white people. Do you think these differences are mainly due to discrimination?" (1 = yes, 3 = don't know, 5 = no). Cronbach's  $\alpha = 0.79$ .

For blacks have too much influence, the following single item was used: "Some people think that certain groups have too much influence in American life and politics, while others feel that they don't have enough influence. You will see three statements about how much influence a group might have (1 = not enough to 3 = too much).

*Individualism* consisted of three agree-disagree items, coded so that high values correspond to stronger endorsement of individualism, were additively scaled. (1) "Most people who do not get ahead should not blame the system. They have only themselves to blame" (1 = strongly agree to 5 = strongly disagree). (2) "Any person who is willing to work hard has a good chance of succeeding" (1 = strongly agree to 5 = strongly disagree). (3) "Even if people try hard they often cannot reach their goals" (1 = strongly agree to 5 = strongly disagree). Cronbach's  $\alpha = 0.51$ .

*Egalitarianism* consisted of three agree-disagree items, coded so that higher values mean higher endorsement of egalitarianism, were additively scaled. (1) "Our society should do whatever is necessary to make sure that everyone has an equal opportunity to succeed" (1 = strongly agree to 5 = strongly disagree). (2) "The country would be better off if we worried less about how equal people are" (1 = strongly agree to 5 = strongly disagree). (3) "If people were treated more equally in this country, we would have many fewer problems" (1 = strongly agree to 5 = strongly disagree). Cronbach's  $\alpha = 0.58$ .

For party identification the standard 7-point party identification scale as measured in the National Election Studies, with a three-item, skip pattern design, was used: (1) "Generally speaking, do you usually think of yourself as a Republican, a Democrat, and Independent, or what?" (2) [If R answers Rep or Dem] "Would you call yourself a strong Republican/Democrat or a not very strong Republican/Democrat?" [3] [If R answers Independent] "Do you think of yourself as closer to the Republican Party or the Democratic Party?"

The candidate preference measure was based on a five-item sequence with skip patterns. (1) "So far as you know now, do you expect to vote in the national election this coming November or not?" (1 = yes, 5 = no, 8 = don't know). (2) [If R plans to vote] "We all know the election is some time away and people are not certain at this point who they will vote for. Still, who do you think you will vote for in the election for President?" (Bush, Gore, Nader, other, don't know, undecided). (3) "Would you say that your preference for (candidate specified in item 2) is strong or not strong?" (4) [If R plans not to vote] "If you were going to vote, who do you think you would vote for in the election for president?" (same response options as in item 2). (5) [For those who answered item 4] "Would you say that your preference for (candidate specified

in item 4) is strong or not strong?" An index was constructed, running from 1 (strong support for Gore) to 5 (strong support for Bush). Those preferring a third-party candidate (Nader, Buchanan, or other) were placed at the midpoint (3). Several versions of this variable were tested, including ones that discarded subjects with non-major-party candidate preferences and one which employed a three-level variable (1 = support for Gore; 2 = neither, other, 3 = support for Bush). Results were nearly identical for these alternative specifications.

## REFERENCES

- Ansolabehere, Stephen, and Shanto Iyengar. 1995. *Going Negative: How Political Advertisements Shrink and Polarize the Electorate*. New York: Free Press.
- Banaji, Mahzarin R., and Curtis Hardin. 1996. "Automatic Stereotyping." *Psychological Science* 7 (May): 136-41.
- Bargh, John A., and Paula Pietromonaco. 1982. "Automatic Information Processing and Social Perception: The Influence of Trait Information Presented Outside of Conscious Awareness on Impression Formation." *Journal of Personality and Social Psychology* 43 (September): 437-49.
- Blair, Irene V., and Mahzarin R. Banaji. 1996. "Automatic and Controlled Processes in Stereotype Priming." *Journal of Personality and Social Psychology* 70 (June): 1142-63.
- Bobo, Lawrence. 2000. "Race and Beliefs About Affirmative Action: Assessing the Effects of Interests, Group Threat, Ideology, and Racism." In *Racialized Politics*, eds. David O. Sears, Jim Sidanius, and Lawrence Bobo. Chicago: University of Chicago Press, Pp. 137-64.
- Bobo, Lawrence, and James R. Kluegel. 1997. "Status, Ideology, and Dimensions of Whites' Racial Beliefs and Attitudes: Progress and Stagnation." In *Racial Attitudes in the 1990's: Continuity and Change*, eds. Steven A. Tuch and Jack K. Martin. Westport, CT: Praeger. Pp. 93-120.
- Bobo, Lawrence, James R. Kluegel, and Ryan A. Smith. 1997. "Laissez-Faire Racism: The Crystallization of a Kinder, Gentler, Antiblack Ideology." In *Racial Attitudes in the 1990's: Continuity and Change*, eds. Steven A. Tuch and Jack K. Martin. Westport, CT: Praeger. Pp. 15-41.
- Brewer, Marilyn B., Valerie Dull, and Layton Lui. 1981. "Perceptions of the Elderly: Stereotypes as Prototypes." *Journal of Personality & Social Psychology* 41 (October): 656-70.
- Campbell, Angus, Philip E. Converse, Warren E. Miller, and Donald E. Stokes. 1960. *The American Voter*. Chicago: University of Chicago Press.
- Carmines, Edward G., and James A. Stimson. 1989. *Issue Evolution: Race and the Transformation of American Politics*. Princeton, NJ: Princeton University Press.
- Coltrane, Scott, and Melinda Messineo. 2000. "The Perpetuation of Subtle Prejudice: Race and Gender Imagery in the 1990's Television Advertising." *Sex Roles* 42 (March): 363-89.
- Conover, Pamela. 1984. "The Influence of Group Identifications on Political Perception and Evaluation." *Journal of Politics* 46 (August): 760-85.
- Converse, Philip E. 1964. "The Nature of Belief Systems in Mass Publics." In *Ideology and Discontent*, ed. David Apter. New York: Free Press. Pp. 206-61.
- Devine, Patricia. 1989. "Stereotypes and Prejudice: Their Automatic and Controlled Components." *Journal of Personality and Social Psychology* 56 (January): 5-18.
- Dixon, Travis L., and Daniel Linz. 2000. "Overrepresentation and Underrepresentation of African Americans and Latinos as Lawbreakers on Television News." *Journal of Communication* 50(2): 131-54.
- Domke, David, Kelley McCoy, and Marcos Torres. 1999. "News Media, Racial Perceptions, and Political Cognition." *Communication Research* 26 (October): 570-607.
- Edsall, Thomas B., and Mary D. Edsall. 1991. *Chain Reaction: The Impact of Race, Rights, and Taxes on American Politics*. New York: Norton.
- Entman, Robert M. 1990. "Modern Racism and the Images of Blacks in Local Television News." *Critical Studies in Mass Communication* 7 (4): 332-46.

- Entman, Robert M. 1992. "Blacks in the News: Television, Modern Racism, and Cultural Change." *Journalism Quarterly* 69 (Summer): 341–62.
- Entman, Robert M., and Andrew Rojecki. 2000. *The Black Image in the White Mind: Media and Race in America*. Chicago: University of Chicago Press.
- Fazio, Russell H., and Carol J. Williams. 1986. "Attitude Accessibility as a Moderator of the Attitude-Perception and Attitude-Behavior Relations: An Investigation of the 1984 Presidential Election." *Journal of Personality and Social Psychology* 51 (September): 505–14.
- Fazio, Russell H. 1990. "A Practical Guide to the Use of Response Latency in Social Psychological Research." In *Review of Personality and Social Psychology, Vol. 11. Research Methods in Personality and Social Psychology*, eds. C. Hendrick and Margaret S. Clark. Newbury Park, CA: Sage. Pp. 74–97.
- Finkel, Steven E. 1993. "Reexamining the 'Minimal Effects' Model in Recent Presidential Campaigns." *Journal of Politics* 55 (February): 1–21.
- Gaertner, Samuel L., and John F. Dovidio. 1986. "The Aversive Form of Racism." In *Prejudice, Discrimination, and Racism*, eds. John F. Dovidio and Samuel L. Gaertner. Orlando, FL: Academic Press. Pp. 61–89.
- Gilens, Martin. 1996. "'Race Coding' and White Opposition to Welfare." *American Political Science Review* 90(3): 593–604.
- Gilens, Martin. 1998. "Racial Attitudes and Race-Neutral Social Policies: White Opposition to Welfare and the Politics of Racial Inequality." In *Perception & Prejudice*, eds. Jon Hurwitz and Mark Peffley. New Haven, CT: Yale University Press. Pp. 171–201.
- Gilens, Martin. 1999. *Why Americans Hate Welfare*. Chicago: University of Chicago Press.
- Gilliam, Franklin D. Jr., and Shanto Iyengar. 2000. "Prime Suspects: The Influence of Local Television News on the Viewing Public." *American Journal of Political Science* 44 (July): 560–73.
- Gray, Herman. 1995. *Watching Race: Television and the Struggle for "Blackness."* Minneapolis: University of Minnesota Press.
- Hastie, Reid. 1981. "Schematic Principles in Human Memory." In *Social Cognition: The Ontario Symposium, Vol. 1*, eds. E. Tory Higgins, C. Peter Herman, and Mark P. Zanna. Hillsdale, NJ: Erlbaum. Pp. 39–88.
- Hurwitz, Jon, and Mark Peffley. 1998. *Perception and Prejudice: Race and Politics in the United States*. New Haven, CT: Yale University Press.
- Iyengar, Shanto. 1991. *Is Anyone Responsible?* Chicago: University of Chicago Press.
- Iyengar, Shanto, and Donald R. Kinder. 1987. *News that Matters: Television and American Public Opinion*. Chicago: University of Chicago Press.
- Jamieson, Kathleen Hall. 1992. *Dirty Politics: Deception, Distraction, and Democracy*. New York: Oxford University Press.
- Kinder, Donald R., and Lynn Sanders. 1996. *Divided by Color: Racial Politics and Democratic Ideals*. Chicago: University of Chicago Press.
- Kinder, Donald R., and David Sears. 1981. "Prejudice and Politics: Symbolic Racism versus Racial Threats to the Good Life." *Journal of Personality and Social Psychology* 40 (March): 414–32.
- Lau, Richard. 1989. Individual and contextual influences on group identification. *Social Psychology Quarterly* 52 (September): 220–31.
- Lombardi, Wendy J., E. Tory Higgins, and John A. Bargh. 1987. "The Role of Conscious in Priming Effects on Categorization: Assimilation versus Contrast as a function of Awareness of the Priming Task." *Personality and Social Psychology Bulletin* 13 (September): 411–29.
- Mendelberg, Tali. 1997. "Executing Hortons: Racial Crime in the 1988 Presidential Campaign." *Public Opinion Quarterly* 61 (Spring): 134–57.
- Mendelberg, Tali. 2001. *The Race Card: Campaign Strategy, Implicit Messages, and the Norm of Equality*. Princeton, NJ: Princeton University Press.
- Miller, Joanne, and Jon A. Krosnick. 2000. "News Media Impact on the Ingredients of Presidential Evaluations: Politically Knowledgeable Citizens are Guided by Trusted Sources" *American Journal of Political Science* 44 (April): 301–15.
- Myrdal, Gunnar. 1944. *An American Dilemma: The Negro Problem and Modern Democracy*. New York: Harper & Row.
- Nelson, Thomas, and Donald R. Kinder. 1996. "Issue Frames and Group-Centrism in American Public Opinion." *Journal of Politics* 58 (November): 1055–78.
- Nelson, Thomas, Rosalee Clawson, and Zoe Oxley. 1997. "Media Framing of a Civil Liberties Conflict and Its Effect on Tolerance." *American Political Science Review* 91 (September): 567–83.
- Peffley, Mark, Todd Shields, and Bruce Williams. 1996. "The Intersection of Race and Crime in Television News Stories: An Experimental Study." *Political Communication* 13 (July/September): 309–27.
- Petrocik, John R. 1996. "Issue Ownership in Presidential Elections, with a 1980 Case Study." *American Journal of Political Science* 40 (August): 825–50.
- Price, Vincent, and David Tewksbury. 1997. "News Values and Public Opinion: A Theoretical Account of Media Priming and Framing." In *Progress In Communication Sciences, Vol. 13*, eds. G. A. Barnett and F. J. Boster. Greenwich, CT: Ablex. Pp. 173–212.
- Reeves, Keith. 1997. *Voting Hopes or Fears?: White Voters, Black Candidates, and Racial Politics in America*. Oxford: Oxford University Press.
- Schuman, Howard, Charlotte Steeh, Lawrence Bobo, and Maria Krysan. 1997. *Racial Attitudes in America*. Cambridge, MA: Harvard University Press.
- Sears, David O. 1988. "Symbolic Racism." In *Eliminating Racism: Profiles in Controversy*, eds. Phyllis A. Katz and Dalmas A. Taylor. New York: Plenum Press. Pp. 53–84.
- Sears, David O., Jim Sidanius, and Lawrence Bobo. 2000. *Racialized Politics: The Debate About Racism in America*. Chicago: University of Chicago Press.
- Sniderman, Paul M., and Edward G. Carmines. 1997. *Reaching Beyond Race*. Cambridge, MA: Harvard University Press.
- Sniderman, Paul M., and Michael G. Hagen. 1985. *Race and Inequality: A Study in American Values*. Chatham, NJ: Chatham House.
- Sniderman, Paul M., and Thomas Piazza. 1993. *The Scar of Race*. Cambridge, MA: Harvard University Press.
- Strack, Fritz, Norbert Schwarz, Herbert Bless, Almut Kubler, and Michaela Wanke. 1993. "Awareness of the Influence as a Determination of Assimilation Versus Contrast." *European Journal of Social Psychology* 23 (January/February): 53–62.
- Taylor, Shelley E., and Susan Fiske. 1978. "Salience, Attention, and Attribution: Top of the Head Phenomena." In *Advances in Experimental Social Psychology*, ed. Leonard Berkowitz. New York: Academic Press. Pp. 249–88.
- Valentino, Nicholas A. 1999. "Crime News and the Priming of Racial Attitudes During Evaluations of the President." *Public Opinion Quarterly* 63 (Fall): 293–320.