When and How New Policy Creates New Politics: Examining the Feedback Effects of the Affordable Care Act on Public Opinion

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Following E. E. Schattschneider’s observation that “a new policy creates a new politics,” scholars of “policy feedback” have theorized that policies influence subsequent political behavior and public opinion. Recent studies observe, however, that policy feedback does not always occur and the form it takes varies considerably. To explain such variation, we call for policy feedback studies to draw more thoroughly on public opinion research. We theorize that: (1) feedback effects are not ubiquitous and may in some instances be offset by political factors, such as partisanship and trust in government; (2) policy design may generate self-interested or sociotropic motivations, and (3) feedback effects result not only from policy benefits but also from burdens. We test these expectations by drawing on a unique panel study of Americans’ responses to the Affordable Care Act. We find competing policy and political pathways, which produce variations in policy feedback.

Over the past several decades a growing body of research has made headway in extending E. E. Schattschneider’s (1935) insight that “a new policy creates a new politics” by treating policy not only as an outcome of politics, but also as an independent variable that itself influences the political behavior of mass publics.1 Scholars have devised research to isolate the policy feedback effects generated by assistance for the poor, Social Security, G.I. Bill education and training benefits, and other policies.2 Recent studies suggest, however, that new policies do not always transform political behavior, even in instances when...
lawmakers themselves purposefully aimed to engineer such outcomes. These variations in outcomes present a challenge to our understanding of policy feedback effects.

In order to determine why a policy may generate some types of feedback effects and not others, we need to ask questions such as do political conditions affect whether specific types of feedback effects occur, for instance by offsetting or muting some outcomes but not others? What sorts of motivations trigger feedback effects? Is self-interest the sole driver or might the collective considerations associated with sociotropism play a part as well? How does the interplay between policy benefits and burdens influence feedback effects? In short, the study of “policy feedback” and its paradigmatic shuffling of causal ordering needs to be strengthened to better specify the nature of policy effects and potentially countervailing forces.

Fortunately, the analytic concepts and theories for such inquiry have been developed through the study of public opinion and political psychology. But policy feedback research has not yet taken full advantage of this research, in part because it has focused primarily on political participation. In addition, most prior studies have relied primarily on cross-sectional surveys. Although policy feedback research seeks to study individual-level changes in opinion and behavior, it has tended to use data collected in a given moment. Even time series data derived from several cross-sectional studies are inadequate because they do not permit scholars to control for endogeneity or either unknown or for which we lack appropriate controls. The investigation of policy feedback can be advanced, however, by using panel data that are collected over time and encompass a wide array of indicators to test competing theoretical expectations.

We develop here theoretical expectations of policy feedback by drawing particularly on important research on public opinion and political psychology. First, we focus on the political factors that influence the occurrence of policy feedback, considering for example how elevated partisanship and high levels of distrust in government may blunt the effects of new policy. Our second expectation is that policy designs may generate appreciation for personal or collective effects of policy. Features that spotlight concrete benefits of tangible importance to individuals may activate awareness of personal policy effects and motivate self-interest. Conversely, features that highlight broad collective aims may trigger sociotropic motivations, such as expectations of payoffs to the nation and the vulnerable. Third, we expect that such feedback effects emanate not only from program benefits, on which scholars have focused to date, but also from the burdens that policies impose, such as taxes and restrictions on behavior.

We test our expectations using unique data to study change over time in how individuals experience and react to policy change. We conduct a panel study of public attitudes about the Affordable Care Act (ACA) from its enactment in 2010 through 2014. This study includes indicators of individuals’ personal experiences with ACA benefits that are designed to track change over time. We find that policy effects form in response to the interplay between policy design, political conditions, and motivations, as well as benefits and burdens.

The next section draws on public opinion and political psychology research as well as recent feedback studies to specify a theoretical framework. The second section discusses our panel data and our analysis of policy effects. The conclusion outlines new directions in the study of policy feedback.

**Strengthening Theories of Policy Feedback**

Strengthening understanding of policy feedback, Paul Pierson argues, depends on specifying “how policies matter and under what conditions.” Progress toward that goal has been made through increasingly rigorous case studies of policy effects and conceptual development and critiques.

Policy feedback scholarship has been particularly attentive to policy design and the resource and interpretative effects it generates. Policies convey resource effects to mass publics by providing specific benefits in the form of goods or services or by imposing burdens through extraction of material costs or regulations on behavior. These resource effects may exert a material impact or alter incentives. Interpretive or cognitive effects may be transmitted directly through the benefits and burdens or through the policy’s design features, including rules and procedures governing policies, their degree of visibility, and their delivery mechanisms. These aspects of policies may convey information and a means of interpreting political and social phenomena.

While a number of earlier studies emphasize the impact of policy design on feedback effects, recent research questions whether the frequency of such effects may be over-estimated. Kimberly Morgan and Andrea Campbell’s panel study of the Medicare Modernization Act of 2003 (MMA) found, for example, that the law’s new prescription drug benefit failed to increase seniors’ support for the program because it offered a limited benefit that became known for the “donut hole” in its coverage. Policy visibility also determines whether or not policy feedback develops. Suzanne Mettler (2011) shows, for instance, that generous tax breaks for home mortgages obscure government’s role as a provider of benefits and depresses awareness of its effects.

Developing a research agenda to explain the incidence and mechanisms of policy feedback requires greater
attention to three analytical issues. First, do political conditions influence whether or not feedback effects occur, and if so, which types matter? Second, how does policy feedback affect motivations to pursue self-interest or broader collective outcomes? Third, what are the effects of policy burdens or costs as distinct from policy benefits, which are the typical focus of policy feedback research?

We investigate these critical research questions in the context of the ACA’s implementation. In particular, we examine policy feedback effects through two stages, as indicated in figure 1. First, we explore how the ACA’s feedback effects influence individuals’ assessments of policy benefits and costs. Second, we examine how each of those factors, in turn, influences how individuals evaluate the ACA overall. Throughout these two stages, we study the impact of political circumstances, motivations, and policy benefits and burdens on feedback effects.

How Politics Competes with Policy Feedback Effects
In a recent review of policy feedback research, Eric Patashnik and Julian Zelizer challenge scholars to treat “the capacity of public policies to remake politics [as] contingent, conditional, and contested.” Fortunately, a long tradition in public opinion research lays the groundwork for understanding how political circumstances may influence individual attitudes and evaluations of politics and policy.

Scholars know, for example, that political party identification acts as an extraordinarily powerful influence on many Americans, anchoring their choices of candidates and their attitudes toward salient policies including economic issues such as health reform and taxes. In the case of highly politicized policies, partisanship may act as a “framing device” that activates “internal structures of the mind” and filters resource effects and interpretative effects. Of particular importance to feedback research, partisanship may influence the receptivity of citizens to policy effects (such as gaining insurance coverage) by blocking or muting them. Partisanship may, for instance, prompt strong partisans to dismiss or adopt a critical attitude toward new legislation identified with the rival political party (e.g., “Obamacare”).

In the case of the Affordable Care Act, the partisan divide among lawmakers as it journeyed through Congress in 2009 and 2010 intensified a parallel divide in the mass public. After enactment, President Obama and his Democratic allies touted new benefits and warned of GOP sabotage, while Republican lawmakers and their backers consistently opposed the law and primed voters to focus on the burdens of its taxes and the risks of its programs. These dueling communications among political elites framed the ACA in ways that motivated individuals to cue on partisan affiliations and, in particular, triggered Republicans to become stalwart critics. If partisan polarization is as “strikingly enduring and difficult to shake” as researchers report, it may override policy feedback effects for years to come.

Political sophistication—specifically, political knowledge and education—may also influence the receptivity of individuals to “policy learning” and awareness of policy effects. One possibility is that individuals with high levels of political knowledge and education will be better equipped to learn from new policies, detect policy effects that benefit them and others, and change their earlier views. Another possibility is that more sophisticated citizens will select information that confirms their pre-existing views and resist learning about new policies that challenge those beliefs.

In addition, distrust of government and the strategies of interest groups and dueling politicians to activate it can be a potent tool to short-circuit policy effects. A number of studies indicate that spotlighting the costs and risks of policy proposals can activate perceptions of risk and tap a deep well of distrust in government. The contentious
fight over the ACA, for instance, may prime political distrust of Washington not only among conservatives but also among groups such as independents, low-income people, and others who have little knowledge of health reform and ample unpleasant experiences with government.

The political institutional context of policy experiences may also influence whether or not individuals are receptive to feedback effects. Arrangements for policy delivery that showcase the government’s role are more likely to make citizens aware of it, whereas those that channel public authority through private organizations or the tax code—or what Suzanne Mettler identifies as the “submerged state”—may leave them believing that only the market is at work. In turn, such distinctions may shape citizens’ views about the appropriate realm and scope of government activity. Those who possess private health insurance, for instance, may be less supportive of health reform than those who benefit from public programs. This is quite pertinent as the ACA largely left undisturbed individuals who already had employer-provided insurance; they remained free of direct, visible interventions that would focus their attention on the benefits of health reform. Meanwhile, individuals already included within government programs (especially Medicare and Medicaid) were accustomed to public interventions and may therefore be primed to recognize and approve of the ACA’s benefits.

A distinguished tradition of research on public opinion and policy feedback effects demonstrates that public evaluations are affected by the relative specificity and visibility of government programs. Free and Cantril, and Page and Jacobs revealed that when Americans focus on specific government social welfare programs, they tend to be appreciative and supportive, as “operational liberals”; by contrast, when their attention is drawn to abstractions, philosophical conservatism and distrust of government prevail. This research points to the importance of policy design: evaluations of specific programs tend to spotlight the tangible impacts of government and invite operational liberalism; assessments of government in the abstract tend to elicit philosophical conservativism. In the case of public evaluations of the ACA, the potentially dueling influences of policy feedback and political circumstances may be affected by whether the targets of evaluation are tangible new health programs or references to the vague monikers “Obamacare” or “health care reform.” We expect significant feedback when the attention of individuals is focused on the tangible effects of specific policies on their own lives, muting the impact of political conditions. By contrast, when “Obamacare” or “health care reform” are the target of evaluation, we expect partisanship and political distrust to exert significant influence in place of feedback effects.

In short, we explore variation in the occurrence of policy feedback effects by examining the ACA’s impact on public opinion. The circumstances of the political context—partisanship, trust in government, political sophistication, and prior policy experiences—may disrupt or override Americans’ experiences of the law’s new benefits and its feedback effects.

**How Policies Trigger Motivations**

Research on political behavior and public opinion has had much to say about individual motivation. Yet, to date, feedback research has neglected to provide explicit exploration of the range of motivations that policy effects might trigger and the conditions under which they might arise. How do policy design and delivery activate self-interest and under what conditions? And, if personal gain is not sufficient, what other considerations might trigger feedback?

That self-interest would drive individual evaluations of policy effects is hardly surprising. The assumption of individualistic motivations is prevalent in studies of voting that focus on “pocketbook” calculations and spatial modelling of voting as well as in rational choice analysis of institutions.

Several policy feedback studies imply that self-interest compels individuals to take political action to protect programs that benefit them, whether as Social Security beneficiaries or parents of school-aged children who attempt to influence education policy. Policy design is particularly significant: prior research implies that individuals are primed to focus on their personal stakes when policy design accentuates benefits. Indeed, advocates for Social Security initiated the distribution of personal statements during the 1990s to reveal the program’s future financial payoffs to Americans; such information improved individuals’ understanding of the program’s tangible benefits and boosted their confidence in and support for it.

Although the social sciences tend to concentrate on self-interest, research has repeatedly found evidence that individuals also weigh broader community considerations, exercising what some social psychologists refer to as “sociotropism.” Public regarding “orientations among voters drive “sociotropic” evaluations of politicians and policies. On the question of whether self-interest or sociotropism dominates, a diverse body of research indicates that neither motivation is inherent but rather varies depending on policy design, relative elite conflict, and political factors that amplify or submerge its features.

Policy designs and their definition of target groups may prime individual motivation: some policies (or particular features of policies) may activate self-interest and others may prompt consideration of the value to the broader community. Social security successfully generates the latter, as evidenced by the fact that younger Americans are as supportive of it as seniors. An important study of policy feedback by Joe Soss and Sanford Schram implicitly
distinguishes between self-interested motivations, understood as “the experience of public policy as a visible and directly consequential factor in one’s life,” and sociotropic motivations—namely, the valuing of policies by individuals who are not direct beneficiaries because of “what they affirm about ‘us’ . . . as expressions of group values [about] who we are, what we stand for, and what we expect of one another.” Which motivation individuals adopt, Soss and Schram argue, is “highly contingent on [policy] visibility and proximity for mass publics.”

The design of the ACA may trigger self-interest when it spotlights immediate, tangible benefits for targeted populations and increases the probability that individuals will experience them directly and be able to detect the stakes for themselves or their family. The ACA established salient provisions for seniors on Medicare (new prescription drug benefits) and for low- and middle-income Americans up to 400 percent of the federal poverty line, who became eligible for subsidies to purchase private health insurance. These policy features may generate self-interested reactions because they distribute, to use Soss and Schram’s phrasing, “visible and directly consequential” benefits, which create disparate and concentrated stakes across distinct demographic groups. For example, higher income individuals may be motivated to become especially opposed to the higher costs of new benefits, as the most affluent three percent pay more in Medicare taxes and well-established businesses pay new fees. Less affluent Americans, by contrast, may be particularly favorable to the insurance subsidies and new prescription drug coverage because they help them to gain access and afford coverage. The ACA’s discrete stakes across income levels may be replicated for other demographic groups: women stand to benefit more than men from concentrated and salient new preventative services (such as free mammograms) and regulatory protections against insurers dropping their coverage if they are diagnosed with breast cancer or other afflictions; people of color compared to whites may be particularly welcoming of new coverage given their disproportionately high rates of uninsurance; and seniors may be especially worried about reductions in their existing programs (such as the ratcheting back of the special treatment for “Medicare Advantage,” an alternative to traditional Medicare).

In addition, the ACA’s policy design may activate sociotropic motivations, to the extent that it distributes information and generates symbols and narratives about the value of new benefits to the community as a whole, or to “deserving” populations of people. It may activate broad collective considerations by expanding access to medical care to disadvantaged groups through the expansion of Medicaid for all low-income adults up to 138% of the federal poverty line, or by advancing the national interest in lowering national health care spending, which if left unaddressed puts a drag on wage increases and the international competitiveness of U.S. businesses. The ACA also established new rules for private insurers with broad benefits to the country: insurers are required to cover all individuals without regard to gender or previous illness, they are restricted in how much they can increase premium prices based on age and other characteristics, and they are compelled to devote at least 80% of premiums to medical care and improving health or issue refunds, which totals approximately $3 billion.

Whether or how individuals respond to policy effects does not emanate, however, from a mechanical decoding of interests. If so, we would see stronger support for and enrollment in the ACA among those who are eligible. The triggering of self-interest or sociotropism is conditioned not only by policy design but also by the general political environment. Acrimonious political debate may highlight new benefits or, more likely, emphasize risks associated with higher costs, reduced coverage for some, and increased paperwork.

In short, personal motivations may be triggered by particular policy designs and how they intersect with individuals’ life circumstances. The increased visibility of targeted, tangible benefits may activate self-interest while sociotropic considerations are more likely when information and narratives effectively convey broad considerations of the collective good and the needs of vulnerable populations.

The connection of policy design to motivation is not, however, simply a byproduct of whether or not benefits are distributed; new burdens may themselves be decisive. Research in social psychology and political communications finds that individuals, under certain circumstances, tend to be more sensitive to loss than gain. The inclination of individuals to focus on their personal self-interest can extend to their sensitivity to risk and the possibility for loss.

The Policy Effects of Benefits and Burdens or Costs

When Schneider and Ingram called attention to how policy design affects democracy, they pointed out that policies vary in their allocation of not only benefits (subsidies, tax breaks, and advantageous rules), but also burdens (costly taxes, restrictive rules, and punishments). To date, however, empirical analysis of feedback effects has concentrated primarily on benefits, particularly in the social welfare arena. Missing in the literature is broader attention to the policy effects of costs, whether in the form of taxation, sanctions, regulations, or rules that restrict liberty and impose obligations. We need to identify the political circumstances that offset or enable the impact of policy burdens on citizens’ attitudes about policies.

Although research on the feedback effects of burdens is limited, other fields of American politics can contribute to building a useful analytic framework for new research, starting with studies of taxation. Scholars find that taxes
that most spotlight costs—for example, income, payroll, and property taxes—are especially likely to trigger public resentment. Their design and administration requires recurrent payment of visible and, in the case of income taxes, large lump sums that both fuel intense opposition among the most politically active (the affluent and business community) and heightens the mass public’s vulnerability to being primed by organized groups to perceive burdens and to paying more than one’s “fair share,” even among the less affluent who pay disproportionately less. Although President George W. Bush’s tax cuts disproportionately favored the most affluent one percent (who received 36% of the cuts), majorities mistakenly concluded that they would benefit and they supported the cuts.36 Liberal lawmakers confront the mismatch between the salience of taxes versus the opaqueness of benefits: when Americans are asked if they get their “money’s worth” from their tax dollars, it is not surprising that many fail to perceive benefits because it is difficult to identify what their money pays for in concrete terms. In short, whether taxes exert a persistently negative impact on public opinion or not depends on their policy design (specifically their degree of visibility), their immediate and tangible impact on the public, and how these compare to the visibility and impact of program benefits.37

Research on public opinion has demonstrated, however, that the public can also be motivated by a pragmatic or “operational” liberalism if policy designs and political elites showcase specific government programs from education to medical care that address citizens’ concrete needs in everyday life. Rigorous studies reveal that the public supports such programs and is willing to pay taxes (even higher taxes) for them. Support for using taxes to pay for core government functions extends to pluralities and, on some issues, even majorities of the affluent and those who identify as Republicans.38

Political conflict often focuses on the policy design of burdens and benefits. Conservatives accentuate the direct, immediate, and widespread cost of taxes and structure their proposals for tax reductions to alleviate these “burdens.” By contrast, progressives link taxes to popular programs and frame opposition to taxes as forcing a trade-off that puts valued benefits at risk. Policies that spotlight benefits can generate feedback effects that overshadow or diffuse public perceptions of associated burdens or costs.

In addition, the struggle over policy designs of burdens and benefits has important implications for individual motivation. Profiling burdens tends to accentuate self-interest while accenting benefits may trigger either self-interest or sociotropism. The policy design of burdens and benefits can influence how ordinary citizens assess the “cost-benefit” ratio of particular policies and their supportive or critical assessments of them.

The ACA is a rich testing ground for the feedback effects of burdens in the form of new taxes. Throughout the law’s enactment, conservatives worked to mobilize anti-tax resentment. Republican leaders warned of the burden of a “government takeover” and the conservative Wall Street Journal editorial page warned that taxes “will need to rise precipitously” to pay for the new law.39 By contrast, the ACA’s advocates accentuated its benefits and attempted to obscure its taxes. The debate over repealing the ACA has followed similar themes: conservatives flagged its burdens while progressives invited loss aversion in response to the ending of benefits to millions.

**Theoretical Expectations: Policy Feedback Effects on Public Opinion**

Drawing on the public opinion and political psychology literatures to advance policy feedback research produces three theoretical expectations.

- Policy feedback effects are influenced by the interplay between features of policy design and the political context as defined by partisanship, trust in government, political sophistication, and prior policy experiences. These political circumstances may affect whether or not policy affects public opinion.
- The combination of policy design and elite framing of policies may trigger divergent motivations. Self-interest is apt to prevail when benefits are tangible and personally experienced as meeting recipients’ concentrated needs (such as making insurance affordable). Sociotropic considerations are likely when policy designs and public promotions focus on broadly-shared problems or collective gains (such as making insurance a right enjoyed by all).
- The perception of costs or burdens may be heightened when policy designs spotlight taxes or punitive regulations and obscured when costs are submerged or when tangible benefits are highlighted.

In short, feedback effects are contingent on the interplay between policy design, political conditions, and individual motivations.

Studies of a single case limit scholars’ ability to draw generalizations, but a long analytic tradition uses intensive case studies to develop research questions and preliminary theoretical expectations for future research to investigate.40 For instance, Andrea Campbell (2003) used Social Security to generate questions and theoretical insights for policy feedback research.41 The case of the ACA offers analytic advantages because it encompasses a variety of regulations and benefits with distinct policy designs. It supplies tangible benefits to multiple, specific target populations (youth, lower- and middle-income people, and seniors), not just one such population. Moreover, the ACA relies not just on one policy design (as some prior studies have done) but on a range—from visible new benefits (expanded coverage of senior prescription drug benefits) to regulations to prevent insurance companies from refusing...
coverage to individuals with pre-existing medical conditions. Because we are studying responses by the same panel of individuals, we can measure perceptions and experiences of distinctive ACA features over time and analyze how they affect support for health reform overall.

**Data and Methods**

We test these expectations by analyzing three waves of a nationally representative panel of individuals who were asked identical questions. Panel data permit us to examine how the ACA, as it unfolds, influenced individual experiences with new programs and evaluations of the law.

**The Advantages of Panel Research**

The panel study approach to examining public reactions to the ACA’s implementation makes it possible to correct a methodological drawback of most prior research on policy effects—selection bias. Previous empirical studies of policy effects mostly consisted of in-depth case studies and comparisons across several policies. These studies relied on cross-sectional data, making it difficult or impossible to determine whether observed attitudes and behavior actually result from the policy intervention or instead emanate from pre-existing characteristics that are not known or cannot be controlled for in statistical analysis. Only a few feedback studies to date have utilized panel data.

Our panel approach collected in-depth data from the same group of individuals over time soon after passage of ACA in 2010 and continued through the implementation of key provisions in 2012 and 2014. The first wave in fall 2010 surveyed 1,200 adults; this included 1,000 in a national random sample plus an oversample of 200 individuals who were between the ages of 18 and 64 and living in low-income households with incomes under $35,000. We returned to these same 1,200 individuals with the same questionnaire in 2012 after the National Federation of Independent Business v. Sebelius Supreme Court decision, and again in 2014, one year after the health insurance exchanges began and 9 months following the start of the Medicaid expansions. In each case, the interviews were conducted during the election season in September and October, when health reform was consistently likely to receive heightened attention. The Survey Research Institute at Cornell University conducted the 2010 survey using landlines only; Abt SRBI conducted it in 2012 and 2014, using both mobile phone numbers and landlines to contact participants. (Fuller details are available in the online appendix.)

We retained subjects over time through regular communications and incentives. Seventy-nine percent (828 out of 1,054) of our 2014 panel also participated in the 2012 or 2010 surveys and, of particular importance for our analysis below, 66% (792 individuals) of the 2010 participants cooperated with the 2014 survey. We also used survey weights to match representative demographic targets and to produce nationally representative samples, which allow us to generalize from our panel to the adult population in the United States.

In creating the survey instrument, we drew on extensive research to distinguish between two types of questions: those that measure subjective states of mind and those that gather data on factual experiences. Our question about respondents’ feelings about health reform, for example, was designed to measure their subjective attitudes about favoring or not favoring the new law. By contrast, we also designed questions to gather data about the actual experiences of respondents, which “in theory . . . could be verified.” Respondents were asked to report whether they were insured or not; we used self-reporting about insurance status in 2010, 2012, and 2014 to track whether members of our panel gained insurance, lost it, or experienced no change. In addition, we designed batteries of questions to gather data on whether specific ACA benefits (including subsidies to buy insurance and new prescription drug benefits for seniors) exerted an “impact . . . on you and your family.” Whether respondents used the tangible new benefits created by the ACA is, at least theoretically, objectively verifiable: it targets a definable experience within a specific time period—the past two years—that respondents are asked to report on. Survey research uses similar types of questions to ask respondents to report on their demographic and economic status, the medical service or government benefits they received, and their impact on them. Policy feedback research has used such measures, as well.

Using the same survey instrument with a stable panel over time diminishes the risk that respondents’ answers are simply a by-product of how a question is framed. While responses to survey instruments at one point in time may be influenced by question wording, changes in responses over time to identically worded questions by the same individuals are more apt to reflect genuine reactions to new experiences.

In sum, our panel data allow us to: (1) examine whether changes in policy evaluations result from partisanship or from new experiences with specific ACA benefits and costs, (2) probe the underlying mechanisms that facilitate policy effects, and (3) trace the effects of new attitudes on general public evaluations of the ACA.

**Measures and Variables**

We developed dependent and independent variables for our theoretical expectations. Our models focus on explaining the impact of the ACA’s specific programs on individuals’ assessments of benefits and burdens in 2014 compared to 2010, and in turn, on their evaluations of the ACA as a whole.
What we are explaining. We conduct two parallel types of analyses, each consisting of two stages. Our first model examines the determinants of changing individual assessments between 2010 and 2014 of the ACA’s reported impact on “access to health insurance or medical care supported or provided by government” for the respondent and his or her family. This dependent variable is measured on a five-point scale, from “none” to “a great deal.” We use ordered logistic regression for the analysis because the dependent variable is measured along ordered points.

Next, we examine whether the assessment of ACA benefits, in turn, influences the public’s overall evaluation of the health reform law. In this analysis, this dependent variable is based on respondents’ evaluations of a “major health reform bill enacted in 2010” on a 7-point scale from strongly unfavorable to strongly favorable. We use structural equation modeling with standardized coefficients and present the results using a path model. We explain overall attitudes about health reform by treating the ACA’s impact on access as a mediating variable as well as by examining its determinants. This approach allows us to expand our investigation of the mechanisms facilitating policy effects; the first stage in our structural equation model examines the drivers of the view that the ACA expanded access and the second stage investigates the influences on overall assessments of the law.

Our second pair of analyses explores the determinants of changing individual assessments of costs or burdens imposed by the ACA, specifically with respect to the law’s taxes. In particular, we examine the determinants of changes between 2010 and 2014 in individual assessments of their taxes: “Do you think that the new health care law enacted in 2010 has increased the taxes that you pay, decreased the taxes that you pay, or has it had no impact on the taxes that you pay?” Respondents who said “increased” or “decreased” were then asked to specify either “a lot” or “little.” We constructed a 3-point scale to measure beliefs about the ACA’s impact on taxes: 1 for “increased taxes a little,” 2 for “increased taxes a little,” and 3 for “no impact” or “decreased” either “a lot” or “a little.” Because the dependent variable relies on ordinal categories, we use ordered logistic regression.

Finally, as in the first pair of analyses, we explain individuals’ overall evaluation of the “major health care bill enacted in 2010,” treating tax attitudes as a mediating variable along with the same roster of independent variables. Once again, we use structural equation modeling with standardized coefficients and display our results using a path model.

Explanatory variables. We developed a set of theoretically-significant independent variables to account for public assessments of the ACA’s benefits and costs. In each analysis, we included the value of the dependent variable for the 2010 wave. This allowed us to control for the inertial elements of opinion and focus on the determinants of changed assessments by 2014. This is a unique and critical component of our analysis of policy feedback.

For our analysis of political conditions, we included partisan identity, which was measured along a 7-point scale from 1 for “strong Republican”; 4 for “independent”; and 7 for “strong Democrat.” The points in between indicate individuals who “lean” toward one of the parties or have a “weak” affiliation. We also included political trust and measured it with the longstanding question, “How much of the time do you think you can trust the government in Washington to do what is right: just about always, most of the time, or only some of the time?” We coded the responses in the direction of “most of the time,” indicating greater trust. Finally, the institutional context of policies was assessed using dummy variables to measure the type of health coverage individuals had in 2014: insurance purchased on their own or coverage by a government program (Medicare, Medicaid, or other). Coverage with a “health plan through employer” is the reference category.

These political and policy variables allow us to examine the theoretical expectations we raised earlier. Building on research about the tendency of Americans to be “operational liberals” in appreciating specific policy provisions, we expect that individual assessments of the benefits and costs of the ACA may grow more salutary over time even after controlling for partisanship and trust in government. The public’s tendency to appreciate tangible programs may be enhanced by the institutional context of policy: We anticipate that individuals with explicitly government-provided coverage may be more prone to adopt more positive assessments of benefits and costs than those with employer-provided benefits, who may be less aware of the government’s role.

By contrast, when individuals are asked to provide overall evaluations of “health care reform,” an abstract assessment rather than one tied to specific programs and benefits, they may be inclined toward “philosophical conservatism.” When evaluating the general idea of health care reform, we expect that partisanship and distrust of government may overwhelm the policy feedback effects.

To study policy feedback effects, we measured insurance status in 2014 relative to 2010 to examine whether gaining or retaining insurance improved assessments of the ACA’s benefits. In particular, this independent variable measures whether an individual is “covered by any form of health insurance or health plan.” We created three dummy variables: one for those who were uninsured in 2010 and have become insured by 2014, another for those uninsured in both years, and another for those with coverage in 2010 who lost it by 2014. (The excluded category indicated that they were insured in both years.) In addition to this direct measure of policy experiences, we examine the self-reports by the
respondents of the impact on themselves and their families of two specific ACA provisions: “help for seniors to pay for prescription drugs” and “tax credits and other subsidies to help people pay for health insurance,” with each scaled toward greater impact.52

We also created independent variables to investigate how motivations may be triggered by policies, potentially weakening or strengthening assessments of benefits and costs. Indicators of self-interest include respondent usage of programs that help seniors with prescription medications and provide subsidies to purchase private insurance for themselves and their families. Further indicators of self-interest include demographic measures of groups that were most expected to be aided by the ACA in terms of gender (the higher value is assigned to female), race and ethnicity (non-white), year of birth (younger), and income (under $35,000).53 Conversely, if such groups express preferences that would appear to contradict their own self-interest (e.g., affluent individuals offering positive evaluations of the ACA), that would provide evidence of sociotropicism and broader, more collective considerations. We included another indicator of sociotropic motivation: evaluations of the effect of reform on “the United States as a whole,” measured on a 7-point scale from making things “much worse” to “much better.”54

As controls, we include two measures of political sophistication. A 5-point scale of political knowledge is based on the number of correct answers respondents gave about general politics and health policy.55 The second measure consists of a 5-point scale indicating level of formal education.56

Explaining Policy Feedback from Benefits and Costs

Our analysis studies both ACA benefits and costs and finds a similar theme: policy effects result from the interplay of policy design, political conditions, and motivations. When the ACA’s tangible benefits or taxes are highlighted, policy effects withstand adverse political circumstances. By contrast, when the focus shifts to general evaluations of health reform and philosophical attitudes are triggered, political conditions can overwhelm the impact of tangible policies. Moreover, tangible benefits and costs tend to generate self-interested responses to policies; when the public is instead directed to focus on the ACA’s broad commitment to improving the situation for the country, individuals tend to adopt a more sociotropic mindset.

The Policy Effects of ACA Benefits

We begin our analysis by regressing the 2014 dependent variable for ACA benefits—namely, the law’s impact on expanding access to health insurance and medical care—on the insurance status variables that measure change from 2010 to 2014, independent variables for 2014, and the lagged dependent variable for 2010. We present our results in table 1; the coefficients are in odds ratio format, which means that coefficients over 1 indicate a positive effect and those under 1, a negative effect. Column 1 shows the effect of usage of specific ACA provisions and column 2 presents the effect of changed insurance status as the law was implemented. Column 3 tests the impact of insurance type along with the experiences of the ACA provisions.

Our first observation is that the lagged dependent variable—the public’s assessment of the ACA’s impact on access to health care in 2010—was a significant influence in 2014 in each of the models (odds ratio of 1.24, p<.05 in column 1). This finding means that the probability of considering the ACA as having “a great deal” of impact on access in 2014 was 1.24 times greater among those who held that same view in 2010 than among those who reported it to have a lesser impact. This is not surprising and indicates that public opinion tends to have an inertial or “lock-in” quality: once formed, attitudes are resistant to change. By holding constant attitudes about the ACA’s impact on access in 2010, we are able to study the determinants of changed assessments of access in 2014. This is a unique and critical component of our analysis of policy feedbacks.

The most striking substantive pattern is that policy feedback effects are occurring. Even with potent controls, individuals who experience tangible changes in their insurance coverage or medical care adopted a more salutary view of the law’s impact on access. Several of these policy effects result from self-interested motivations. As expected, we find that those who have experienced personal or familial impacts of the law’s specific features are more likely to report that it has also enhanced their overall access to health coverage by 2014 compared to 2010. Column 1 shows that usage of specific ACA provisions influenced assessments of access to medical care. People who report benefitting more from ACA subsidies (as compared to those who did not report a benefit) are 1.62 times more likely to see the ACA as exerting a greater impact on widening access to health care (an odds ratio of 1.62, p<.01, column 1). The use of subsidies, as reported by individuals on our panel, is consistent with the aggregate pattern of a sharp decline in the uninsured rate, which fell among 19- to 64-year olds from 20% in 2013—when the subsidies began—to 13% in 2015.57

In addition, individuals who report a personal experience of the ACA’s provision of assistance to seniors for prescription drugs are 1.29 times more likely to assess its impact on access to health care favorably (1.29, p<.05 in Column 2). This feature of the ACA is credited with saving an average of $1,407 annually for 8.2 million affected seniors between 2010, when its implementation began, and 2014.58

We continue our investigation of how self-interest operates through policy feedback in column 2, specifically through resource effects. Most strikingly, we find that the experience of gaining health insurance between 2010 and
2014, compared to having coverage in both years, more than doubled the odds that individuals would credit the ACA with a greater impact on widening access (odds ratio of 2.72, \( p < .05 \), column 2). Not surprisingly, individuals who remain uninsured are more likely to have shifted in the opposite direction (.15, \( p < .01 \), column 2; odds ratios below 1 are negative), though it is important to note that only a small percentage of the population lost coverage during this period.59

Sociotropism has only modest effects, most notably in column 2. Individuals who perceive the law as making things “much better” in the United States as a whole as compared to “somewhat better” are 1.1 times more likely to credit the ACA with widening access (1.1, \( p < .10 \)). Beyond this result, though, we find little evidence of sociotropism.

Political circumstances do not override the policy effects of the ACA’s tangible new benefits to widen access. Most impressive, party identification does not wash out the ACA’s policy effects: in fact, partisanship does not register a significant impact in any of the models in table 1. This does not mean, of course, that partisanship is absent, but rather that it was not a notable driver of change in

### Table 1

<table>
<thead>
<tr>
<th>Independent Variables (all 2014 unless otherwise noted)</th>
<th>Policy effects on the Perceived Impact of ACA on Access (Ordered Logistic Regression)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Policy Effects: Self Interested Motivations</strong></td>
<td></td>
</tr>
<tr>
<td>ACA coverage of subsidies to help pay for insurance,</td>
<td>1.62** (.19) 1.6** (.20)</td>
</tr>
<tr>
<td>for self and family</td>
<td></td>
</tr>
<tr>
<td>ACA help to seniors to pay for prescription drugs,</td>
<td>1.29 (.14) 1.19 (.14)</td>
</tr>
<tr>
<td>for self and family</td>
<td></td>
</tr>
<tr>
<td><strong>Insurance Status</strong></td>
<td></td>
</tr>
<tr>
<td>Uninsured in 2010, insured in 2014</td>
<td>2.72* (1.34)</td>
</tr>
<tr>
<td>Insured in 2010 and uninsured in 2014</td>
<td>1.12 (.69)</td>
</tr>
<tr>
<td>Uninsured in both 2010 and 2014</td>
<td>0.15** (.07)</td>
</tr>
<tr>
<td>Gender (female)</td>
<td>1.27 (.34) 1.25 (.30) 1.31 (.37)</td>
</tr>
<tr>
<td>Race/ethnicity (non-white)</td>
<td>.80 (.26) .98 (.28) .84 (.29)</td>
</tr>
<tr>
<td>Year of birth</td>
<td>.99 (.01) .98 (.01) 1.00 (.01)</td>
</tr>
<tr>
<td>Income (under $35,000)</td>
<td>.89 (.25) 1.09 (.30) .60 (.21)</td>
</tr>
<tr>
<td><strong>Policy Effects: Sociotropic Motivation</strong></td>
<td></td>
</tr>
<tr>
<td>Perceived effect of health care law on U.S. as a whole</td>
<td>1.1 (.07) 1.1 (1.07) 1.12 (.08)</td>
</tr>
<tr>
<td>(coded toward better)</td>
<td></td>
</tr>
<tr>
<td><strong>Political Conditions</strong></td>
<td></td>
</tr>
<tr>
<td>Party identification (coded toward Strong Democrat)</td>
<td>1.05 (.06) 1.05 (.06)</td>
</tr>
<tr>
<td>Trust in government</td>
<td>.74 (.19) .83 (.19) .74 (.20)</td>
</tr>
<tr>
<td><strong>Political Sophistication</strong></td>
<td></td>
</tr>
<tr>
<td>Political knowledge</td>
<td>.90 (.08) .88 (.08) .89 (.09)</td>
</tr>
<tr>
<td>Education</td>
<td>.84 (1.09) .73** (.07) .83 (1.09)</td>
</tr>
<tr>
<td><strong>Type of Coverage</strong></td>
<td></td>
</tr>
<tr>
<td>Government coverage</td>
<td>— — 4.12** (2.08)</td>
</tr>
<tr>
<td>Uninsured</td>
<td>— — .90 (.41)</td>
</tr>
<tr>
<td>Self-Insured</td>
<td>— — 1.88 (1.88)</td>
</tr>
<tr>
<td><strong>Lagged effect of 2010 view of ACA impact on access</strong></td>
<td></td>
</tr>
<tr>
<td>to health insurance or medical care for self/family (coded toward more impact)</td>
<td>1.24* (.13) 1.38** (.12) 1.29* (.13)</td>
</tr>
</tbody>
</table>

Notes: \( ^* p < .10 \), \( ^{**} p < .05 \), \( ^{***} p < .01 \). Standard errors are in parentheses. Exact question wording is in the online appendix.


Dependent variable is the perception in 2014 that the ACA had an impact for respondent and family on access to health insurance or medical care supported or provided by government. Coded toward more impact ("a great deal").

Notes: \( ^{a} \)Coefficients in odds ratio format; coefficients over 1 indicate a positive effect and coefficients under 1 indicate a negative effect.

\( ^{b} \)The excluded reference category is insured in 2010 and 2014.

\( ^{c} \)The excluded reference category is health coverage from employer.
attitudes about access, or put differently, it did not become significantly more important between 2010 and 2014 in shaping such views. Similarly, the feedback effects held while controlling for political trust and political knowledge, and like partisanship, neither of them registered a significant impact.

Finally, in column 3, we find that policy design, specifically the institutional arrangements for policy delivery, highlights government’s role. As expected, receiving health coverage from government (as compared to an employer) has a positive and significant effect on improving evaluations of the ACA’s impact on access in 2014 compared to 2010 (4.12, p<.01). This suggests that individuals who benefit from government coverage are an impressive 4.12 times more likely to assess the ACA to have a greater impact on access than those with employer-provided coverage. The reasons for this might be two-fold. To begin with, those who are accustomed to perceiving government’s role in subsidizing health care may be primed to notice new forms of such provision, whereas those who have employer-provided coverage may be less likely to notice them. In addition, since many of the newly covered individuals gained Medicaid coverage (11 of the 22 million covered by the ACA in 2014), they or their friends and family may have been particularly aware of the ACA’s impact. These policy effects withstood control variables.

To sum up, the ACA is yielding tangible and discernable effects in the lives of Americans and their families, and over time, those personal experiences are in turn changing their assessments of the law’s impact on their own and their families’ access to health coverage. Self-interest and the institutional setting for receiving coverage mediate the ACA’s feedback effects. The extent of such appraisals varies with individuals’ prior coverage status and type of coverage: those who gain coverage or who receive government help are more likely to notice the impact of the ACA. Conversely, for Americans who were already insured prior to the enactment of the law or enjoy employment-based coverage, their attitudes remain unaffected by the law’s implementation in 2014 compared to 2010.

**When Political Factors Matter**

Now we turn from examining the policy effects of specific ACA benefits (the first stage of our model in figure 1 and the study of operational liberalism) to examining the public’s overall evaluation of health reform, the second stage of our model and the context in which philosophical conservatism may emerge.60 We use path analysis to disentangle the complicated set of paths that drive public evaluations of health reform overall. Our analysis relies on structural equation modeling with standardized coefficients.61 Attitudes about health reform are modeled as a function of exogenous variables (political conditions and policies delivering self-interested and sociotropic payoffs) and an endogenous variable (assessment that the ACA expanded access). We also control for the 2010 values of both the mediating and dependent variable, including them as lagged variables so that we can consider changing evaluations. We present a path model that highlights the theoretically most important relationships and focus on the “total effects” on the dependent variable.62 (A fuller analysis of our SEM results for the direct, indirect, and total effects are available in the online appendix.)

Three main findings emerge from figure 2. First, sociotropic motivation generates the most powerful effect on changes in evaluations of the law. Individuals who perceive the ACA as making things better for “the United States as a whole” have become more supportive of it between 2010 and 2014 (Total Effect, .46, p<.01).

Second, however, the ACA’s specific benefits that triggered the public’s self-interest when evaluating the widening of access (refer to table 1) are washed out as influences on evaluations of the health bill (“ACA Support”) in 2014. In particular, subsidies and prescription drug coverage have significant effects on the intervening variable of access but their total effects on overall evaluations of health reform are not statistically significant. Neither does the experience of gaining insurance between 2010 and 2014 exert a meaningful effect on 2014 evaluations of the ACA.

Self-interest arose from negative policy experiences. Individuals who lost their health insurance between 2010 and 2014 and those who remain uninsured became a bit less supportive of the ACA over time (Total Effects of -.05, p<.05 and -.13, p<.01, respectively). There is a negative and marginally significant effect for subsidies.

The power of political context is the third major finding in figure 2. The total effects of trust in government (.10, p<.01) and party identification (.18, p<.01) are highly significant influences on health reform support. Put differently, those who are distrustful of government and who affiliate with the Republican Party evaluate the ACA unfavorably even if its specific provisions have yielded a positive and discernable impact on their access to health care. This is consistent with prior survey research on public reactions to vague or general government programs.63

In short, the lodestar of social science research and a foundational assumption of feedback research—self-interest—is largely overwhelmed by powerful political factors. Evaluations of the ACA overall are driven by trust in government and partisanship rather than new benefits that have tangible effects on the health care of themselves and their families.64 Although political attitudes exerted powerful effects, the strongest impact emanated from sociotropism: individuals who perceive the ACA’s national contribution (quite apart from the experiences of themselves and their families) grew more supportive of it.
The Policy Effects of ACA Burdens or Costs

What are the feedback effects of burdens imposed by policies? Do new costs and, specifically, the taxes paid by individuals to finance a policy provoke a backlash against it or are the public’s evaluations mitigated by political factors and self-interest and sociotropic considerations? We begin by examining assessments of tax burdens and then we consider the mechanisms driving these appraisals and their consequences for the public’s overall evaluation of the ACA.

A different mix of dynamics influenced assessments of the ACA’s impact on taxes as compared to new benefits and access. In contrast to our analyses of attitudes about access, trust in government and, especially, partisanship do yield consistent significant effects in shaping views about ACA taxes. Of particular note, in column 2, the odds of perceiving that taxes declined or remained the same due to health reform are greater among Democrats (1.17, p<.10) than Republicans; individuals who expressed greater trust in government (1.69, p<.05) also expressed a more moderate appraisal of ACA taxes. Put differently, this means that Republicans have their family declined or had no effect (column 1, odds ratio of 1.22, p<.05, similar results in the other columns). Interestingly, the self-interest measures fail to yield a significant impact on the assessment of the ACA’s tax burden, with one exception: those who experienced subsidies to help pay for insurance have greater odds of viewing their taxes as increasing (column 1, .76, p<.05). We suspect that these individuals, while they appreciate the effect of the subsidies, might be cognizant of the tax penalty they would have incurred if they had failed to sign up for coverage, and resent it.

Political circumstances bear quite different effects on assessments of tax burdens as compared to ACA benefits. In contrast to our examinations of attitudes about access, trust in government and, especially, partisanship do yield consistent significant effects in shaping views about ACA taxes. Of particular note, in column 2, the odds of perceiving that taxes declined or remained the same due to health reform are greater among Democrats (1.17, p<.10) than Republicans; individuals who expressed greater trust in government (1.69, p<.05) also expressed a more moderate appraisal of ACA taxes. Put differently, this means that Republicans have their family declined or had no effect (column 1, odds ratio of 1.22, p<.05, similar results in the other columns). Interestingly, the self-interest measures fail to yield a significant impact on the assessment of the ACA’s tax burden, with one exception: those who experienced subsidies to help pay for insurance have greater odds of viewing their taxes as increasing (column 1, .76, p<.05). We suspect that these individuals, while they appreciate the effect of the subsidies, might be cognizant of the tax penalty they would have incurred if they had failed to sign up for coverage, and resent it.

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Figure 2
Impact on access and overall evaluations of the health reform bill

<table>
<thead>
<tr>
<th></th>
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<tbody>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*.18**
-1**
-16*
.12+
.3**
-0.9*
-0.09*
-0.08*
-0.05*
-0.12*
.22**

Total Effect on ACA Support (2014)
Party ID = .18**
Trust in Government = .5**
Effect of ACA on the US = .46**
Impact of Prescription Drug Help = .02 (NS)
Impact of Insurance Subsidies = -.05 (NS)
Insured in 2010 and uninsured in 2014 = -.05*
Always Uninsured During 2010-2014 = -.13**
Became Insured During 2010-2014 = .0 (N/S)
ACA Support (2010) = .22**
Impact of Increased Access to Health Care (2014) = .09*

Not all variables are displayed.

** p<0.01, *p<0.05, = p<0.10; Adjusted R² for full model is .78 Results obtained using GLLS structural equation modeling based on maximum likelihood estimation, with standardized coefficients. ACA Support is a 9-point interval variable, while Impact of Increased Access is a 5-point ordinal variable. All variables measured in 2014 unless otherwise noted. Also included as controls are gender, race, income, and year of birth.
83% lower odds of moderating their views of ACA taxes over time than do Democrats, and those with less trust in government have 31% lower odds of doing so compared to more trusting individuals.

Political circumstances appear to be overriding some policy feedback effects. In particular, Republicans and those who distrust government became more convinced that the ACA was increasing their tax burden, regardless of their experiences with the law’s policy provisions.

One of the most startling findings in table 2, however, is that partisanship and, especially, Republican warnings about the ACA ratcheting up of taxes did not drown out sociotropicism.

Individuals who appreciated the ACA’s effects on the United States discounted the tax burdens that accompany it, after controlling for party identification.

From Policy Burdens to Overall Assessments of Health Reform

We now shift from the first stage of our analysis in figure 1—tracing the sources of public assessments of the ACA’s taxes—to the second stage: the impact of those evaluations

### Table 2

<table>
<thead>
<tr>
<th>Independent Variables</th>
<th>Perception that the ACA Decreased or Had No Impact On Taxes the Respondent Pays</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Policy Effects: Self Interested Motivations</strong></td>
<td></td>
</tr>
<tr>
<td>ACA coverage of subsidies to help pay for insurance,</td>
<td>1 (column 1)</td>
</tr>
<tr>
<td>for self and family</td>
<td></td>
</tr>
<tr>
<td>ACA help to seniors to pay for prescription drugs,</td>
<td>1 (column 1)</td>
</tr>
<tr>
<td>for self and family</td>
<td></td>
</tr>
<tr>
<td><strong>Insurance Status</strong></td>
<td></td>
</tr>
<tr>
<td>Uninsured in 2010, insured in 2014</td>
<td>—</td>
</tr>
<tr>
<td>Insured in 2010 and uninsured in 2014</td>
<td>1.39 (.70)</td>
</tr>
<tr>
<td>Uninsured in both 2010 and 2014</td>
<td>—</td>
</tr>
<tr>
<td>Gender (female)</td>
<td>1.93 (.26)</td>
</tr>
<tr>
<td>Race/ethnicity (non-white)</td>
<td>.91 (.33)</td>
</tr>
<tr>
<td>Year of birth</td>
<td>.99 (.01)</td>
</tr>
<tr>
<td>Income (under $35,000)</td>
<td>1.2 (.41)</td>
</tr>
<tr>
<td><strong>Policy Effects: Sociotropic Motivation</strong></td>
<td></td>
</tr>
<tr>
<td>Perceived effect of health care law on U.S. as a whole</td>
<td>1.22* (.10)</td>
</tr>
<tr>
<td>(coded toward better)</td>
<td></td>
</tr>
<tr>
<td><strong>Political Conditions</strong></td>
<td></td>
</tr>
<tr>
<td>Party identification(coded toward Strong Democrat)</td>
<td>1.18* (.10)</td>
</tr>
<tr>
<td>Trust in government</td>
<td>1.55 (.42)</td>
</tr>
<tr>
<td><strong>Political Sophistication</strong></td>
<td></td>
</tr>
<tr>
<td>Political knowledge</td>
<td>1.25* (.15)</td>
</tr>
<tr>
<td>Education</td>
<td>.98 (.09)</td>
</tr>
<tr>
<td><strong>Type of Coverage</strong></td>
<td></td>
</tr>
<tr>
<td>Government coverage</td>
<td>—</td>
</tr>
<tr>
<td>Uninsured</td>
<td>1.27 (.55)</td>
</tr>
<tr>
<td>Self-Insured</td>
<td>—</td>
</tr>
<tr>
<td><strong>Lagged effect of 2010 view of health reform on taxes</strong></td>
<td></td>
</tr>
<tr>
<td>respondent pays (coded toward no impact/decreased taxes)</td>
<td>1.83** (.37)</td>
</tr>
<tr>
<td>Observations</td>
<td>570</td>
</tr>
<tr>
<td>Model’s percent correct predictions</td>
<td>59.82</td>
</tr>
</tbody>
</table>


Notes: aCoefficients in odds ratio format; coefficients over 1 indicate a positive effect and coefficients under 1 indicate a negative effect.
bThe excluded reference category is insured in 2010 and 2014.
cThe excluded reference category is health coverage from employer.
on overall support for health reform in general. As in our earlier analysis of ACA support, the results reveal the potent impact of political conditions and the negative effects of self-interest in a politicized climate. At the same time, they also demonstrate the tenacity of sociotropism as a powerful antidote to political conflict.

Once again, we employ structural equation modeling with standardized coefficients and path modeling to disentangle complex relationships. Figure 3 presents theoretically relevant and significant relationships. (Full results are available in the online appendix.)

Consistent with our analyses of benefits, political conditions emerge as the strongest and most significant effects on overall ACA evaluations. The totals effects of partisan identity (.18, p<.01) and trust in government (.10, p<.01) exert highly significant effects on ACA support in 2014. As we discovered in figure 2, the impact of general political conditions appears to be mirrored by broad concerns about the United States as a whole. The sociotropic measure—the ACA’s effect on the United States—is the strongest influence on increasing ACA support even in a highly politicized climate (.47, p<.01). On the other hand, consistent self-interested concerns about losing insurance coverage (-.05, p<.05) and remaining uninsured between 2010 and 2014 (-.13, p<.01) tend to depress ACA support.

In short, overall evaluations of the ACA are primarily driven not by assessments of tax burdens but by broader considerations about the United States and the political environment. More specifically, individuals who are Republican or who distrust government are less likely to favor the ACA. Those who are motivated by national considerations are more likely to favor it. Neither the law’s taxes nor tangible effects of its programs exert much influence.

**New Directions for Policy Effects Research**

Over the past quarter-century, policy feedback research has challenged the way scholars think about politics, demonstrating that policies once established may reshape

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**Figure 3**

Effect of ACA on evaluations of tax burdens and health reform bill

```
ACA Support (2010)

Trust in Government

Effect of ACA on US

Effect of ACA on Taxes (2010)

Political Knowledge

Party ID (Democrat)

Insured in 2010 and Uninsured in 2014

Always Uninsured During 2010-2014

Effect of ACA on Taxes (2014)

ACA Support (2014)

Total Effect on ACA Support (2014)

Party ID = .18**

Trust in Government = .1**

Effect of ACA on US = .47**

Impact of Prescription Drug Help = .02 (NS)

Impact of Insurance Subsidies = -.05 (NS)

Insured in 2010 and Uninsured in 2014 = -.05*

Always Uninsured During 2010-2014 = -.13**

Became Insured During 2010-2014 = .01 (NS)

ACA Support (2010) = .22*

Political Knowledge = .01 (NS)

Education = .04 (NS)

Effect of ACA on Taxes (2010) = -.01 (NS)

Effect of ACA on Taxes (2014) = .05 (NS)
```

**p<0.01, *p<0.05, +p<0.10; Adjusted R² for full model is .73**

Results obtained using QLS structural equation modeling based on maximum likelihood estimation, with standardized coefficients. ACA Support is a 9-point interval variable, while Effect of ACA on Taxes is a 3-point ordinal variable. All variables measured in 2014 unless otherwise noted. Also included as controls are gender, race, income, and year of birth. Not all variables are displayed.
multiple dimensions of the political universe. The first

generation of empirical studies to test these claims
identified the existence of feedback effects in the case of
particular policies, and furthered thinking about how
features of policy design may influence the mass public.
Yet this body of research did not explain why such effects
occur in some instances and not others nor did it account
for the particular form they take. Overcoming these
challenges requires new types of data to overcome
selection bias as well as new empirically-grounded theory.
We contribute to overcoming these hurdles by study-
ing policy effects over time, introducing unique panel
data that limits endogeneity and deepens analysis of the
underlying mechanisms of policy feedback, and by
borrowing from scholarship in the field of public opinion
and political psychology. Our primary focus is on
stimulating new questions and theorizing about the
circumstances under which policy feedback either occurs
or is overwhelmed by political factors, the distinct
motivations that are triggered by policy design, and the
particular features of individual responses to policy
burdens as well as benefits. We trace the pathways to
policy evaluations, and find that policy feedback effects
compete with political factors, depending on the
circumstances.

Our analysis identifies four theoretically-oriented ques-
tions and findings for future exploration. First, even in the
midst of a highly polarized environment that is rampant
with distrust in government, some policy feedback does
occur. Policy effects are most likely when individuals
experience the tangible effects of specific benefits that
improve their own circumstances and those of their
immediate family, and become motivated by self-interest.
The experiences of gaining health coverage, ACA’s sub-
sidies to help people pay for health coverage, and the
benefits to seniors to lower what they paid for prescriptions
each enhanced individuals’ assessments of the law’s impact
on access to health care, regardless of their partisan identity
or level of trust in government. This is consistent with prior
survey research on operational liberalism.65

Second, under certain circumstances, policy feedback
effects may be drowned out by the din of politics. This is
most common in our analysis when the attention of individuals
is drawn to abstract debates about the role and
size of government and partisan identity. This became
evident in our investigation of the determinants of overall
evaluations of the ACA. Even the positive experiences of
individuals with the law’s visible benefits were over-
whelmed when public attention focus on general philo-
sophical disputes about partisan attitudes and distrust in
government.66 The only policy feedback effects trans-
mitt in such an environment are negatives ones: individu-
als who lost health coverage or remained un-
insured did, understandably, come to regard the ACA
more unfavorably.

Third, policy feedback effects appear to be triggered not
only by self-interest but also by sociotropism even under
conditions of partisanship and political distrust. Individu-
als who observed the ACA making a positive difference for
the country as a whole—and not necessarily for themselves
alone—updated their appraisals of the tax burdens of the
law, recognizing by 2014 that it cost them less than they
anticipated. Further, their assessments of the law’s impact
for their fellow citizens prompted them to adopt a more
favorable evaluation of the law over time. Indeed, this
sociotropic effect registered as the strongest force at work in
shaping assessments of the ACA, indicating that public-
minedness can withstand the onslaught of partisan di-
visiveness and loss of faith in government.

Fourth, our analysis has implications for the study of
political psychology and, specifically, the impact of framing on public opinion.67 Prior research on framing
focuses on the discrete, quick, and time-bound effects of
specific words and phrasings of individual speakers in
particular situations. Missing in this account is the impact
of institutionalized policy feedback. Established policy
routine convey messages that chronically access in-
dividual attitudes and beliefs.

The debate over repealing the ACA provides a real-
world context for our findings of contingent policy
effects. The persistent conservative effort to roll back
the ACA reflects the enduring presence of partisanship
and government distrust, but growing public acceptance
of the ACA’s new tangible benefits has posed daunting
hurdles to full repeal.

Further research is needed, however. Policy feedback
scholars should examine whether the effects we report are
limited to the ACA or have broader reach to other policy
areas. In addition, our analysis focuses on public opinion;
additional research is needed to pursue the policy effects
on political behavior such as increased political partici-
pation and voting. Moreover, our examination of burdens
can be expanded beyond taxes to regulations and other
costs of government intervention. Finally, most of our
measures here assess resource effects; further research can
examine when and how interpretive effects matter.

Policy feedback research has demonstrated that new
laws and programs are not simply passive vehicles to
absorb the political environment. Rather, new and
established policy is a critical environment. The next
step is to identify the contingencies and microfounda-
tions of policy feedback effects. Whether and how policy
feedbacks impact public opinion and political behavior
may have significant consequences for institutional de-
velopment and the practice of democracy.

Notes
2 Soss 1999, Campbell 2003, Mettler 2005, Mettler and
Stonecash 2008.
Panel surveys face a series of common challenges, the most significant of which is the falling away of respondents; Hsiao 2003. In order to manage this challenge, we maintained regular contact with the first panel in between waves. Moreover, we offered escalating incentives for reluctant panel members to participate in 2012 and 2014. We also weighted the data for the usual social and economic factors as well as for panel attrition (as described in the online appendix.)

Rather than using a simple dichotomous question that asked respondents whether or not they had used the particular ACA provision, we used a Likert scale approach to capture greater variation in the impact of experience. Our approach draws not only on instrument design research but also on policy feedback research and its approach to measuring policy impact: Campbell assesses the percentage of senior income that comes from Social Security by income group (2003, figure 3.1 on 47, and 46–56); Mettler measures the duration of usage of G.I. Bill education and training benefits (2005, 114-116); and Lerman and Weaver measure criminal justice contact, from "none" to "serious time" in prison (2014, 148–55). The latter two, like our survey, rely on self-reports of policy usage.

Five-point scales may conceivably compress the range of responses, constraining individuals whose views become stronger over time. Frequencies of survey items that use five point scales in the 2010, 2012, and 2014 waves found that the central tendency of respondents was to move toward the midpoint rather than the end-points.
The question wording is: “Do you think that the new health care law enacted in 2010 has increased the taxes that you pay, decreased the taxes that you pay, or has it had no impact on the taxes that you pay?” A follow-up question probed if respondents thought their taxes had increased/decreased a lot or a little.”

Because these categories overlap with the insurance status categories, we include either type of health coverage or insurance status in any given model, not both.

The question wording is the following: “I’m going to read to you a list of some of the features of the health care law that was enacted in 2010. For each one, please answer this question: How much of an impact has this feature had on you and your family: a great deal, quite a bit, some, a little, none? [Coverage of adult children on their parents’ insurance plans until they are 26 years old; Help for seniors to pay for prescription drugs; Tax credits and other subsidies to help people pay for health insurance].”

We use a diverse set of survey items to measure self-interest. Attitudes of seniors, for instance, toward the ACA’s new benefit for them is a direct indicator. We also use demographic variables to infer self-interest based on their conformity with empirical patterns in prior research—e.g., higher income groups tend to oppose higher taxes.

This question draws on the extensive survey research literature on motivations and the designing of questions to measure personal circumstances of “you and your family” as distinct from general national conditions (e.g., Kinder and Kiewiet 1979). Our question explicitly references “the United States as a whole” to direct the attention of respondents to national conditions and whether the ACA has “made things better, made no difference, or made things worse.” By contrast, a conceptually distinct approach was taken in designing one of our dependent variables for measuring overall assessment and whether respondents have “generally favorable or generally unfavorable opinion” toward the ACA. This question neither focuses on the law’s effects nor directs respondents toward national conditions (“the United States as a whole”), or any personal circumstances (e.g., “you and your family.”).

These include “Do you happen to know what job or political office is now held by Joe Biden?”; “Whose responsibility is it to determine if a law is constitutional or not?”; “How much of a majority is required for the U.S. Senate and House to override a presidential veto?”; Do you happen to know which major political party currently has the most members in the House of Representatives?; and “As you know, most Americans pay taxes on the wages they get from their employers. In cases where an employer helps to pay for health insurance benefits for a worker, does the worker pay taxes on the amount the employer pays, or no? Or do you not know?”

Respondents were scored based on whether they reported their education as below high school high school, some college or Associate degree, Bachelor degree, and graduate or professional degree. This categorization is based on responses to the following question: “What is the last grade or class that you completed in school or college?”

Supplementary Material
Appendix A. Panel Study
Appendix B. Structural Equation Models for Figures 1 and 2

- Impact on Access and Overall Evaluations of the Health Reform Bill
- Effect of ACA on Taxes Respondent Pays and Overall Evaluations of the Health Reform Bill

The data used within the manuscript will be released upon completion of the authors’ book project. At that time, the data will be made available on the Perspectives on Politics Dataverse page, available at https://www.hhh.umn.edu/directory/lawrence-jacobs and at http://government.cornell.edu/suzanne-mettler. https://doi.org/10.1017/S1537592717004182


