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Changes In The Equity Of US Health Care Financing In The Period 2005–16

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ABSTRACT Spending on health care in the United States amounted to 17.9 percent of gross domestic product in 2017. Households paid for this care through out-of-pocket medical spending and a complex mix of outof-pocket premiums, employer premium contributions, taxes, and subsidies that combined to finance private employer-sponsored insurance, nongroup insurance, and multiple public insurance programs. Our analysis examined the impact of this complex system of health care financing on households in the period 2005–16, tracking how economic and policy changes affected incidence-that is, the amount paid to finance health care, either directly or indirectly, by households as a share of their pretax income. Health care financing was regressive at the start of our study period, with households in the bottom 20 percent of income paying 26.8 percent of their income compared to about half that amount for those with income in the top 1 percent. By 2016 incidence had become approximately proportional (the same percentage across all income levels). In part, these results reflect increases in coverage through Medicaid and the Affordable Care Act Marketplaces, which are progressively financed through the federal tax system.

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he United States spent \$3.5 trillion on health care in 2017, an amount equal to 17.9 percent of gross domestic product (GDP).¹ The financing and delivery of this care occurs through a complex system comprising multiple public insurance programs, private employersponsored group coverage, private nongroup coverage, and direct payments from households to providers. Households bear the burden of financing health care in numerous ways: out-ofpocket spending for health care; out-of-pocket premiums (for private and, in some cases, public coverage); reduced cash wages associated with employer premium contributions; earmarked Medicare payroll taxes; and an array of income and other taxes at the federal, state, and local levels. Adding to this complexity are tax preferences and other public subsidies that shift the

burden of these costs across households.

With the large share of GDP spent on health care in the US and the intricacy of how health care is financed, it is important to understand how households are affected not only by readily visible out-of-pocket spending but also by the employer- and tax-financed components that are more hidden from view.² The incidence of health care financing-defined here as the amount paid to finance health care, either directly or indirectly, by households as a share of their pretax income-is routinely assessed for other countries,³ yet relatively few such analyses have been conducted for the US. Prior studies examined the incidence of US health care financing in 1977,⁴ 1980–81,⁵ 1987,⁶ and 2004.⁷ Despite methodological differences, all found regressive patterns of incidence, whereby total health-related spending as a share of income was higher for

low-income households than for high-income households. These studies also found that regressivity was driven by private health care financing (including out-of-pocket medical spending and premiums for private insurance), which more than offset the progressivity of publicly financed health care.

We undertook a comprehensive measurement of health care financing to provide an updated understanding of how incidence across the income distribution has evolved since 2005. We examined the period 2005–16, which included a severe macroeconomic shock and recovery, several changes to the federal tax system, and several important health system changes including the introduction of Medicare Part D, the rising prevalence of high-deductible health plans, and the implementation of the Affordable Care Act (ACA).

As has been found in previous work, health care financing was regressive at the start of our study period. Households in the bottom 20 percent of the US income distribution paid 26.8 percent of pretax income to finance health care in 2005, compared with only 13.8 percent of income paid by households in the top 1 percent. Since 2005, however, the incidence of US health care financing has become approximately proportional (the same percentage across all income levels), as a result of first temporary changes during the recession followed by longer-term changes that reduced out-of-pocket spending among low-income households and increased tax-related burdens on upper-income households.

Study Data And Methods

Health care spending is often expressed using aggregate spending from the National Health Expenditure Accounts (NHEA) as a share of GDP. We sought a more granular perspective that accounted for nearly all health expenditures in the NHEA but did so by income group, because our goal was to construct ratios of average spending in each income group to the group's average household income.⁸ The out-of-pocket spending component of such an analysis can be readily obtained from household data, but a more complex analysis is needed to allocate federal and state spending on public health insurance programs and adjust spending burdens to reflect tax preferences.

DATA SOURCES No single data source provides all of the necessary components for a comprehensive analysis of US health care financing equity. We chose to combine information from three key sources. The first was the Medical Expenditure Panel Survey–Household Component (MEPS-HC), a nationally representative survey of the civilian noninstitutionalized population sponsored by the Agency for Healthcare Research and Quality (AHRQ). We relied on MEPS-HC for the incidence of out-of-pocket spending on health care and out-of-pocket premiums, as well as the distribution of sources of health insurance. We supplemented MEPS-HC with employer premium contributions imputed from the MEPS-Insurance Component (MEPS-IC), a survey of employers also sponsored by AHRQ, and with simulated federal and state income taxes from the National Bureau of Economic Research (NBER) TAXSIM model.⁹

The second critical component was the NHEA, on which we relied for public spending totals by program and for private spending benchmarks.¹ We allocated \$2.89 trillion in health spending to households, or 86.5 percent of the official NHEA total (\$3.34 trillion), in 2016. Our estimates differed from the NHEA total because we excluded several categories of spending that were either outside the scope of MEPS (such as out-of-pocket spending for nursing home residents and spending on nonprescription nondurable goods) or distantly related to either health consumption or households' tax obligations (such as the private revenues providers receive from philanthropy and hospital cafeterias).¹⁰ To allocate state Medicaid spending, we supplemented the NHEA information with state-specific Medicaid data.¹¹

The third critical component was information compiled by the Congressional Budget Office (CBO) on income by source and taxes paid by type across the household income distribution.¹² To express health spending as a share of income, we used a modified version of the CBO's definition of pretax, pretransfer household income. Unlike the CBO, we excluded the fungible value of Medicare benefits because households cannot use these amounts to increase consumption. Pretax income is appropriate because a large share of the payments for health care take the form of taxes. Because many lower-income households receive income from the Earned Income Tax Credit and the Child Tax Credit, we calculated the sensitivity of our main findings to including these two transfers as income. The results, included in the online appendix,¹³ were quite similar to those presented in the text.

CBO benchmarks were of particular importance for capturing the very top of the income distribution (which is underrepresented in MEPS-HC). In addition, combining CBO estimates with micro-level data from MEPS-HC and TAXSIM enabled us to simulate tax subsidies such as those associated with employer-sponsored insurance.

We also used household and TAXSIM data in

The ACA may have played an important role in helping prevent a return to prerecession regressivity.

cases where tax liabilities were negative because of refundable credits. Because average tax liabilities of lower-income households can often be negative, we assumed that the incidence of health spending on these families occurred before the Earned Income Tax Credit, the Child Tax Credit, and the Child and Dependent Care Credit were accounted for. This approach allocated a positive incidence of publicly financed health spending to lower-income households by assuming that they received less from federal income tax filing than they would have if health care spending were lower.

As an example of our approach, consider outof-pocket spending on health care. We started with MEPS-HC amounts, adjusted to match annual totals reported in the NHEA. We then adjusted the incidence of these amounts to reflect simulated tax subsidies for flexible spending accounts, health savings accounts, and the tax deduction for excess medical spending. As a result, households that had preferred tax treatment of out-of-pocket spending incurred lower incidence, while the total burdens of financing these federal and state tax preferences were then allocated to all households in proportion to their federal and state tax payments. Thus, for each income group we measured out-of-pocket spending on health care, net of tax preferences and inclusive of the group's share of the overall cost of financing these tax expenditures.

For private health insurance, we started with MEPS-HC out-of-pocket spending on premiums, including those for employee contributions to group coverage and individual coverage through nongroup, Marketplace, and Medigap supplemental policies. We augmented employee contributions with (imputed) employer premium contributions from MEPS-IC. We aligned total premiums with information from the NHEA and then adjusted for tax expenditures, subtracting the benefits from favorable tax treatment and adding back in the burdens of financing these tax benefits. In our results we refer to private spending, which consists of the after-tax incidence of private premiums and out-of-pocket spending for privately insured people or those without coverage, as well as any taxpayer funds to finance the tax expenditures and subsidies for privatesector premiums and out-of-pocket spending.

To allocate NHEA Medicare spending to households, we began by simulating enrollee premiums in MEPS-HC, including any premiums for Medicare Advantage, Parts B and D, and any additional Part B premiums for higherincome households beginning in 2007. To these we added estimates of Medicare payroll taxes based on earnings reported in MEPS-HC and benchmarked to match CBO estimates by percentile or quintile, as well as tax burdens associated with the portion of Medicare financed from federal general revenues.

For Medicaid and the Children's Health Insurance Program (CHIP), federal spending was allocated according to the financing of federal general revenues, while state spending was allocated first to the state level¹¹ and then to households, according to our estimates of each household's share of state general revenues. Our estimates of state general revenues were constructed using TAXSIM simulations of state personal income tax liabilities; US census data on state corporate income tax revenues;¹⁴ and Internal Revenue Service data on average sales tax payments by tax filing unit size, income level, and state.¹⁵ Other state and local spending was allocated to households according to methods described in the appendix.13

The "other public" category refers to remaining programs in NHEA spending at the federal level—including the Indian Health Service, the Veterans Health Administration, and the Department of Defense—as well as state and local public health programs.¹⁶

We combined the above data sources using a consistent methodology for the period 2005–16. For comparison purposes, all dollar amounts were converted to 2016 dollars using the Personal Consumption Expenditures Price Index.¹⁷ Additional methodological details are in the appendix.¹³

LIMITATIONS Our study had several limitations. First, we assumed that all privately and publicly financed health care was paid for in the year it was consumed. Thus, we assumed that the public portion was not debt financed, despite large federal deficits throughout the study period.¹⁸ To the extent that a portion of federal health care was debt financed rather than paid for in the current year, incidence might be more or less progressive than our estimates, depending on factors such as the future progressivity of federal taxation and changes over time in the income distribution.

Second, our study focused on the civilian noninstitutionalized population. Therefore, our analysis did not account for out-of-pocket spending on nursing home care or on acute care of the institutionalized, nor did it account for tax payments by the institutionalized.

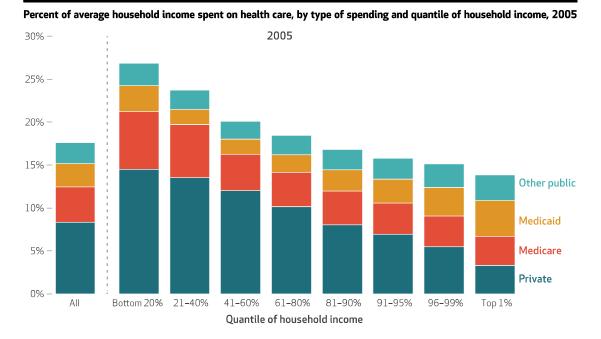
Third, because our goal was to assess the full distribution of health care financing, our estimates did not account for the efficacy or benefit of care, even though some people likely forgo needed care and others may consume unnecessary care.

Fourth, we did not attempt to net out program benefits from program costs, in either current or future years. Thus, we counted the premiums paid by Medicare enrollees as burdens on households but did not net out the value of health care that Medicare enrollees received. Similarly, we counted as a burden the Medicare payroll tax paid by current workers but did not net out the potential future benefits such workers may one day receive from the Medicare program. Our focus was solely on current-year burdens of financing health care.

Finally, as in any study of income groups over time, the composition of those groups can change as a result of factors such as reduced household formation among nonminor children,¹⁹ the aging of the population, or differential income growth across subgroups of the population.

Study Results

INCIDENCE IN 2005 AND 2016 In 2005 health care spending, on average, accounted for 17.6 percent of household income (exhibit 1). The US had a regressive health care financing incidence, with households in the bottom 20 percent of the income distribution paying 26.8 percent of their income for health care and households in the top 1 percent paying 13.8 percent of income. Private spending was the primary driver of regressivity, ranging from 14.5 percent of average household income in the bottom 20 percent to only 3.3 percent in the top 1 percent. Tax



SOURCE Authors' analysis of data for 2005 from the Medical Expenditure Panel Survey (MEPS)-Household Component, MEPS-Insurance Component, National Health Expenditure Accounts, and Congressional Budget Office. **NOTES** Households are assigned to quantiles of household income by pretax household income plus the value of any Medicare benefits received. "Private" includes people with no insurance. Spending includes after-tax out-of-pocket spending and the implied federal, state, or local tax revenues required to finance the relevant programs or activities (private spending includes the implied cost of the favorable tax treatment for private health insurance). Private spending also includes after-tax contributions for premiums and employer contributions to health plans. Medicare spending also includes any required contributions for Medicare Parts B and D or Medicare Advantage and employer and employee payroll contributions for the Medical spending also includes the implied federal such as federal public health programs, the Veterans Health Administration, the Indian Health Service, subsidy payments for coverage under the Consolidated Omnibus Budget Reconciliation Act (COBRA) of 1985, small business tax credits after 2010, and the implied state and local revenues to finance public health activities at those levels.

EXHIBIT 1

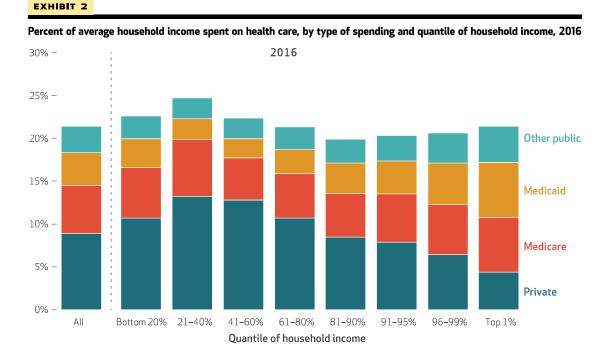
payments to finance tax expenditures and subsidies were a relatively small component of spending by the lowest 20 percent but were the largest share of spending for the top 1 percent (data not shown). Medicare financing also contributed to regressivity, accounting for 6.7 percent of income in the bottom 20 percent versus only 3.4 percent in the top 1 percent. Medicaid (and CHIP) and, to a lesser extent, "other public" had the most progressive incidence, which reflects the progressivity of the taxes used to finance these programs. (The plotting point data used to construct the exhibits are in the appendix).¹³

By 2016 average spending had increased from 17.6 percent to 21.4 percent of household income (exhibit 2). During this period, the incidence of the spending had shifted considerably, becoming nearly proportional. Despite the overall increase in spending as a share of income, the average burden in the bottom 20 percent of the income distribution dropped from 26.8 percent to 22.6 percent. In part, this reflected a 3.8percentage-point decline in private burden and a 0.8-percentage-point decline in Medicare burden. In contrast, the average burden in the top 1 percent increased by 7.6 percentage points, from 13.8 percent to 21.4 percent. The amounts spent on Medicare and Medicaid were the primary drivers, increasing as shares of income by 3.0 percentage points and 2.3 percentage points, respectively (data not shown). Cumulatively over

the period 2005–16, average income and average health care spending rose by 7.2 percent and 30.4 percent, respectively. The growth in health care spending varied depending on whether it was in the private-sector (13.9 percent), Medicare (46.9 percent), or Medicaid (53.3 percent).

WHEN AND HOW HEALTH CARE INCIDENCE **CHANGED** To help analyze the dramatic shift in the progressivity of health care financing, exhibit 3 traces incidence for selected low- and highincome groups over the study period. (The appendix presents estimates for all income levels.)¹³ Exhibit 3 clearly shows that the greatest convergence in burdens occurred in the period 2007-09-a period of few notable health reforms but including the economic upheaval of the Great Recession. The exhibit also shows that regressivity did not revert to its prerecession pattern as the economy recovered during the remainder of our study period. Exhibit 4 complements exhibit 3 by presenting average income and incidence amounts by program, for selected income groups and selected years that bracket key periods of change.

Initially, in the period 2005–07 we observed a modest reduction in regressivity (exhibit 3), as a result of declines in the shares of income paid by those in the bottom 20 percent and in the 21– 40 percent quantile. From 2005 to 2007 these two income quantiles experienced increases in average incomes and modest reductions in total



SOURCE Authors' analysis of data for 2016 from the Medical Expenditure Panel Survey (MEPS)–Household Component, MEPS–Insurance Component, and National Health Expenditure Accounts, and data for 2015 from the Congressional Budget Office. **NOTES** Household assignment to income quantiles and categories of spending are explained in the notes to exhibit 1.

EXHIBIT 3



Percent of average pretax household income spent on health care, by selected quantiles of household income, 2005–16

SOURCE Authors' analysis of data for 2005–16 from the Medical Expenditure Panel Survey (MEPS)-Household Component, MEPS– Insurance Component, and National Health Expenditure Accounts, and data for 2005–15 from the Congressional Budget Office. **NOTE** Household assignment to income quantiles is explained in the notes to exhibit 1.

health care spending (exhibit 4).

From 2007 to 2009, in the period of greatest change in incidence, average incomes declined for all groups, but the declines were by far the largest in dollar and percentage terms for highincome households. Average income declined by 13.1 percent for households with incomes in the ninety-sixth to ninety-ninth percentiles (from \$341,531 to \$296,643) and by 36.3 percent for those with incomes in the top 1 percent (from \$2,097,046 to \$1,335,600). Within the lowest 20 percent, average income declined by only 5.7 percent (from \$19,534 to \$18,420). Moreover, whereas average spending rose by 2.3 percent in the lowest 20 percent, the corresponding increases were 26.0 percent for the ninety-sixth to ninety-ninth percentiles (from \$52,324 to \$65,920) and 12.0 percent for the top 1 percent (from \$279,727 to \$313,401).

There is some evidence of a return to the prerecession pattern of regressive incidence in the period 2009–13. For the top 1 percent, health care spending peaked at 23.5 percent of income in 2009 and then dropped to 18.2 percent of income in 2012, a 5.3-percentage-point decline (exhibit 3). There was also a 2.4-percentagepoint decline in average burdens among households in the ninety-sixth to ninety-ninth percentiles in the same period. Also during this period, average incomes recovered more rapidly at the top of the income distribution than at lower income levels. Income for the top 1 percent grew by 19.4 percent, compared to small declines in incomes among those in the bottom 20 percent (-1.7 percent) and in the 21-40 percent quantile (-1.0 percent) (data not shown). As a result, as of 2012 health care financing appeared to be reverting toward prerecession incidence. From 2012 to 2013, however, there was a sharp increase in health care burdens at the top of the income distribution. From 2012 through the end of our study period, we observed little additional change in incidence, except that the bottom 20 percent quantile and the 21-40 percent quantile switched positions as the group paying the highest percentage of income. This switch resulted from increased public coverage (which disproportionately benefited the bottom 20 percent), combined with recovery-related increases in employment-based coverage (the premiums of which disproportionately burdened households in the 21-40 percent quantile). At the top of the income distribution, incomes continued to increase disproportionately, but spending for Per household mean health spending, by selected quantiles of household income and types of spending, 2005, 2007, 2009, and 2016

	Pretax household Type of spending (\$)					
	income (\$)	Private	Medicare	Medicaid	Other public	All
2005						
All Quantile of income	99,429	8,323	4,081	2,689	2,382	17,475
Bottom 20% 21–40% 91–95% 96–99% Top 1%	17,309 39,364 192,207 321,103 1,839,654	2,515 5,351 13,349 17,700 61,133	1,162 2,420 7,080 11,466 62,768	527 692 5,354 10,668 77,064	440 858 4,525 8,636 52,836	4,643 9,321 30,309 48,471 253,800
2007						
All Quantile of income	107,520	8,325	4,505	2,796	2,667	18,294
Bottom 20% 21–40% 91–95% 96–99% Top 1%	19,534 42,197 202,222 341,531 2,097,046	2,461 5,039 13,613 18,155 58,294	1,105 2,256 8,263 13,380 80,693	395 653 5,724 11,340 81,558	523 899 5,281 9,449 59,182	4,483 8,847 32,881 52,324 279,727
2009						
All Quantile of income	92,919	8,651	5,070	3,288	3,062	20,072
Bottom 20% 21–40% 91–95% 96–99% Top 1%	18,420 38,664 189,888 296,643 1,335,600	2,584 5,119 15,131 21,196 60,467	930 2,356 10,402 17,843 96,119	469 805 7,401 14,843 91,818	605 1,078 6,647 12,038 64,997	4,587 9,357 39,582 65,920 313,401
2016						
All Quantile of income	106,593	9,483	5,995	4,121	3,186	22,786
Bottom 20% 21–40% 91–95% 96–99% Top 1%	18,263 40,452 217,821 367,055 1,944,261	1,954 5,367 17,168 23,720 85,722	1,088 2,699 12,350 21,417 123,764	606 966 8,394 17,870 126,004	479 968 6,363 12,710 80,579	4,126 10,000 44,275 75,716 416,069

SOURCE Authors' analysis of data for 2005, 2007, 2009, and 2016 from the Medical Expenditure Panel Survey (MEPS)-Household Component, MEPS–Insurance Component, and National Health Expenditure Accounts, and data for 2005, 2007, 2009, and 2015 from the Congressional Budget Office. **NOTES** All dollar amounts are in 2016 dollars. Pretax income is household income before taxes plus employer contributions for payroll taxes and health insurance. Household assignment to income quantiles and categories of spending are explained in the notes to exhibit 1. Data for additional years are in appendix exhibit 4 (see note 13 in text).

those households rose just as rapidly. In 2016 average household spending on health care in the top 1 percent of the income distribution reached \$416,069—slightly more than 100 times the average spending among households in the lowest 20 percent (exhibit 4). However, incomes at the top 1 percent were slightly more than 106 times the average income in the lowest 20 percent. As a result, health care financing remained slightly regressive, but much less so than at the start of our study period.

Discussion

In 2005 the US had a strongly regressive pattern of health care financing, as has been found in

the previous literature. Burdens ranged from 26.8 percent of household income in the bottom 20 percent of the income distribution to 13.8 percent of household income in the top 1 percent. By 2016 regressivity had largely disappeared. We estimated that household spending on health care was 22.6 percent of income in the bottom 20 percent and 21.4 percent of income in the top 1 percent.

To highlight the magnitude of this incidence shift, we note that average income and average health care spending rose by 7.2 percent and 30.4 percent, respectively, during the study period. If all households' incomes and health expenditures had uniformly increased by these respective percentages, spending as a share of income in the top 1 percent would have grown from 13.8 percent of income to only 16.8 percent, instead of rising to 21.4 percent. In contrast, spending by the bottom 20 percent would have grown from 26.8 percent of income to 32.6 percent, rather than declining to 22.6 percent.

Much of the incidence shift was attributable to the fact that average private-sector spending, the most regressive component of health care spending, grew in real terms by only 13.9 percent over the study period, compared to 46.9 percent and 53.3 percent growth in average spending for Medicare and Medicaid, respectively. The slower growth in private spending reflected the fact that throughout the study period, rapid private insurance premium increases were offset by an erosion in private coverage (until the introduction of Marketplace coverage in 2014).²⁰ Simultaneously, increases in public coverage were driven by aging, disability, and (by the end our study period) the ACA. These increases in public coverage not only increased federal spending on these programs but also helped reduce private out-of-pocket spending by the uninsured, both of which increased the progressivity of health care financing.

Regressivity began to decline in the period 2005–07, as a result of declines in burdens among low-income households. Several factors contributed to this change. Incomes in the bottom 20 percent rose disproportionately, by 12.9 percent, whereas these households' privatesector spending declined modestly (authors' calculations from exhibit 4). The introduction of Medicare Part D during this period helped shift the financing of prescription drugs away from regressive out-of-pocket spending toward more progressively financed premiums and general revenues.²¹ According to data from MEPS-HC, among Medicare recipients with incomes in the bottom 20 percent, out-of-pocket spending declined by 33.7 percent from 2005 to 2007 (authors' calculations).

The largest shift in incidence in our study period occurred between 2007 and 2009. Officially, the Great Recession began in December 2007 and ended in June 2009. Declining regressivity during this period was primarily driven by recession-related changes in the distribution of income and the progressivity of taxation. The American Recovery and Reinvestment Act of 2009 provided tax relief targeted at low-income households and supported state efforts to fund Medicaid programs by increasing the federal share of Medicaid payments, thereby increasing the overall progressivity of Medicaid financing (see appendix exhibit 5).¹³ Another factor was that households at the top of the income distri-

By 2016 regressivity had largely disappeared.

bution experienced larger declines in capital gains (taxed less heavily) than in earnings and other income (taxed at higher rates). Yet another factor is the basic mathematics of progressivity, according to which a decline in the tax base, coupled with a progressive tax system (such as for federal Medicaid financing), results in larger percentage-point increases in contributions to publicly financed programs at high income levels than at low income levels. Taken together, all of these changes increased the share of income that higher-income households paid for Medicare and Medicaid through federal and state taxes over this period.

Although the decreased regressivity of health care financing was, as of 2009, primarily attributable to the recession and associated tax policy, the question arises why incidence did not revert to its prerecession regressivity as the economy recovered. One obvious factor is that recovery from the recession was only gradual. Unemployment remained high for many years after GDP growth resumed in late 2009,22 and the recession's impact on lower-income families' incomes continued past the end of our study period. Capital gains were slow to recover as a share of income among households at the top end of the income distribution. Also, while employer-sponsored insurance premiums increased rapidly after 2009, average spending was slowed as fewer employers offered coverage and take-up declined among eligible workers.²⁰ All of these factors would have tended to slow any reversion toward prerecession regressivity.

Careful scrutiny of exhibit 3 reveals that in the period 2009–12 incidence did begin to shift back toward increased regressivity as the economy gradually recovered. However, this tendency toward increased regressivity stopped after 2012. In 2013 spending by the top 1 percent as a share of income reversed its decline. In that year the Medicare payroll tax increased by 0.90 percentage points (from 1.45 percent to 2.35 percent) for higher-income taxpayers, and the American Taxpayer Relief Act of 2012 allowed earlier tax cuts to expire for high-income households (a 4.6-percentage-point increase in the top federal individual income tax rate).²³

The ACA may also have played an important role in helping prevent a return to prerecession regressivity in at least two key ways. First, increases in Medicaid coverage and the introduction of subsidized Marketplace plans may have helped protect low-income adults by reducing out-of-pocket spending. Second, this expansion in coverage was financed primarily through federal tax revenues, which are progressive. The expansion in Medicaid had an enhanced federal matching rate of 100 percent for newly eligible enrollees for the years covered by our study, and the federal government primarily financed the Marketplace subsidies. Taken together, these changes slowed any tendency to return to the more regressive financing that was the norm before the ACA.

Conclusion

In a recent Health Affairs Blog post, members of the Health Affairs Council on Health Care Spending and Value discussed the high level of aggregate health care expenditures, stating, "We must

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incidence.

the Vanderbilt University School of Medicine. The views expressed in this article are those of the authors, and no official endorsement by the Department of Health and Human Services or AHRQ is intended or should be inferred. *IPublished online October 16, 2019.*]

consider how this level of spending impacts individuals and families."²⁴ We agree, yet a first

step toward such an analysis must be the careful

measurement of what individuals and families

are actually spending, the form these expendi-

tures are taking, and how financing incidence

has evolved over time. The incidence of health

care financing in the US has been addressed only

sporadically, despite the magnitude and com-

plexity of the US health care system. Unfortu-

nately, this very complexity has led to methodo-

logical differences among the few studies that

exist, confounding efforts to draw strong con-

clusions about historical changes. By using a

consistent methodology across time, our analy-

sis offers important insights into a substantial

shift toward greater progressivity that occurred during a period of substantial macroeconomic, tax, and health policy upheaval. We look forward

to applying this same methodology in future

years to study the impact that economic, tax,

and health policy, including the Tax Cuts and Jobs Act of 2017, has on health care financing

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