Health Care Access among California’s Farmworkers

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Key Takeaways

Recent federal and state policies may have improved access to health insurance for farmworkers, who are important contributors to California’s economy and an essential link in the food supply chain. The Affordable Care Act (ACA) included an expansion of Medi-Cal to most low-income adults, and a mandate requiring companies with at least 50 workers to offer employer health insurance. California also expanded Medi-Cal to young undocumented immigrants, and will soon extend it to older individuals. This report investigates whether these policies coincided with better insurance coverage or reduced barriers to health care for immigrant farmworkers.

- Farmworkers are aging and more likely to settle in the US with family; thus, their health care needs—and those of their families and children—will likely grow.
- Cost or lack of insurance are the most salient barriers to health care for farmworkers; few farmworkers note barriers related to immigration status, although being undocumented is a strong predictor of lacking health insurance.
- Many documented farmworkers have enrolled in Medi-Cal following the ACA expansion, which has increased coverage rates and lowered cost and insurance barriers to health care. Undocumented farmworkers have not fared as well in these areas.
- Employer health insurance coverage for farmworkers did not change detectably with the rollout of the ACA employer mandate, regardless of a farmworker’s documentation status or whether the worker was a direct hire versus a contractor.

These findings take on special importance during the coronavirus pandemic. Farmworkers have continued to work during the public health emergency. Yet with California’s high cost of housing, many farmworkers live in crowded conditions, making it difficult to remain socially distant from other household members. Although emergency Medi-Cal covers COVID-19 treatment regardless of immigration status, long COVID and resulting disability may threaten farmworkers’ health and livelihoods.

Introduction

About 162,500 farmworkers worked in California in 2019, according to estimates from the American Community Survey, but their relatively small numbers contrast with their significant contributions. These workers are a key link in the food supply chain in California and nationwide. Farmworkers play an important role in the state’s agricultural economy, a sector that produced over $50 billion in revenue in 2019 (California Department of Food and Agriculture 2020a), with California’s crop sales recently accounting for 17 percent of the US total (US Department of Agriculture 2017).

California is the leading state in terms of agricultural revenues, and is the sole producer of a number of products, including almonds, walnuts, plums, and figs (California Department of Food and Agriculture 2020a). Over three-fourths of California’s crop sales are fruits, nuts, and vegetables (California Department of Food and Agriculture 2020a), many of which depend on farm workers for production and harvesting.

While many individuals switched to working at home during the COVID-19 pandemic, most farmworkers

1. Sole producer refers to supplying 99 percent or more of a product.
continued their essential, in-person work. A recent California study detailed farmworkers’ fears of catching the coronavirus at work, compounded by lack of access to health care and social services, and their need to work in order to survive economically (California Institute for Rural Studies 2021). In the years leading up to the pandemic, a number of federal and state policy changes may have helped improve access to health care for farmworkers.

The Affordable Care Act (ACA), a major reform of the US health system, allowed California to expand Medi-Cal public health insurance to low-income residents beginning in 2014, and required large employers to offer health insurance to their workers beginning in 2015. Additionally, California implemented Medi-Cal expansions primarily funded with state dollars to cover low-income undocumented young adults in 2020; an expansion to undocumented older adults will begin later this year. This series of policy changes may have improved access to health insurance and health services for farmworkers, who are overwhelmingly immigrants, and many of whom are low-income. A further expansion proposed in Governor Newsom’s January 2022 budget would cover low-income adults ages 26–49, regardless of immigration status.

I analyze federal survey data to determine whether the timing of new policies were associated with changes to insurance and barriers to care for farmworkers. I also conducted expert interviews to provide additional key context (see textbox on data sources). This report focuses on a subset of California farmworkers in crop agriculture whose employers allow government surveyors to interview their workers, and who do not hold guest worker (H-2A) visas. From here on, I refer to immigrant farmworkers without guest worker visas as just “farmworkers” for brevity.

In this report, I describe farmworkers’ characteristics, changes (if any) to their health insurance options, and their barriers to health care. I also discuss some differences among farmworkers by crop type, employer type, and geography. Throughout, I focus on immigrant farmworkers, who make up more than 90 percent of California farmworkers, and pay particular attention to undocumented workers—those without valid visas or permanent residency (“green cards”)—who make up over half of immigrant farmworkers (Figure 1, and Technical Appendix Table A1 and Table A2). Undocumented immigrants likely have additional barriers to health insurance coverage and health services; past research in California finds these patterns (Cha and McConville 2021). This group of workers also may have other characteristics that affect their health needs.

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2. Some farmworkers such as managers and support personnel worked remotely during the pandemic.
3. In the data we use, California farmworkers make up about half of the US total; the state’s workers are more likely to have health insurance, and less likely to be worried about paying for health care, compared to farmworkers in the rest of the US.
The overwhelming majority of California’s farmworkers are immigrants, and over half are undocumented.

![Bar Chart](image_url)

**SOURCE:** National Agricultural Workers Survey, fiscal years 2010–2018.
**NOTE:** Weighted tabulations presented. All farmworkers includes California survey participants. Immigrants are those born outside of the United States and Puerto Rico. Documentation status is self-reported in the survey.

Data sources: survey data and expert interviews

I use the US Department of Labor’s National Agricultural Workers Survey (NAWS), an employment-based survey of non-H-2A US crop workers that collects demographic, employment, and health data. NAWS is an annual, nationally representative survey that is organized by federal fiscal year (Hernandez and Gabbard 2018 present a profile of recent NAWS participants). The survey began in fiscal year 1989, and some descriptive figures in this report show trends that begin with that first year. Demographic profiles use the NAWS and the American Community Survey (ACS), a large annual US Census Bureau survey. The ACS contains detailed income data not available in the public version of NAWS, and widely used Census race/ethnicity categories.

Quantitative analyses that adjust statistically for multiple factors use public NAWS data from California, from fiscal years 2010 to 2018, the most recent year available. Regression-adjusted analyses of financial barriers to care are limited to fiscal years 2010 to 2017 because certain health care variables are not available for 2018.

Data from interviews I conducted with experts in farmworker health and agricultural work supplement the survey analyses and provide insight into work and health challenges that arose in the COVID-19 pandemic. I sought perspectives that represent farmworkers’ experiences at work, in health care settings, and in their communities. Technical Appendix B lists the interview subjects and their affiliations, and provides an example of an interview protocol.

Farmworkers’ Changing Health and Demographics

The profile of farmworkers has been changing over time, and their health needs are likely to have grown as a result. Currently, about 70 percent of California farmworkers are male, and about 97 percent are Latino.
(Technical Appendix Table A1 and Table A2). Ninety-two percent are Spanish speakers and 44 percent report they do not speak English. Farmworkers tend to have low levels of formal education: about 74 percent did not complete high school, and 93 percent have at most a high school diploma or equivalent. In light of these characteristics, language, low education, and low income are likely common barriers to health care for farmworkers. Language may be especially a barrier for Indigenous farmworkers (see Technical Appendix C for more). Farmworkers also participate in highly physical work that can lead to injuries (Cha 2021; Zavodny 2015), making the need for health care access pressing.

A trend taking shape over decades is the increasingly settled nature of farm work, with workers living in the United States year-round. In the past, patterns of settling were quite different by immigration status (Figure 2). Documented immigrants tended to be settled, while undocumented immigrants were more likely to travel to the US to work and regularly return home for periods of respite.

Around 2010, both groups converged to a relatively low level of international shuttling, as the practice is called. Undocumented farmworkers moving less could be a response to increased border control, which is correlated with lower labor migration (Fan et al. 2015) and longer stays by undocumented immigrants (Reyes, Johnson, and Van Swearingen 2002). Regardless of the root causes, farmworkers are now mainly a settled group of long-time residents and workers.

**Figure 2**

Since 2010, California’s undocumented and documented farmworkers have had similar international movement

![Graph showing percentage of workers traveling internationally for work](graph)

**SOURCE:** National Agricultural Workers Survey, fiscal years 1989–2018  
**NOTE:** Weighted averages presented. Farmworkers include California survey participants, and immigrants are those born outside of the United States and Puerto Rico. International shuttling refers to working in the US but spending at least 28 days abroad a year (excluding daily border crossing). Undocumented status is self-reported.

A consequence of settling is that workers are now living with their families in the US instead of keeping their families in their countries of origin (Hamilton and Hale 2016); for example, farmworkers are increasingly living with their spouses (Figure 3).
The question of access to care then becomes one about families and children, not just about lone workers whose permanent homes are elsewhere. Although farmworkers are mostly male (Technical Appendix Table A1 and Table A2), having families in the US means that women’s health concerns, prenatal care, and pediatric services become more salient needs. Documentation status can differ within families as well; over a quarter of farmworkers report being in a mixed-status family. That is, different family members may be documented, undocumented, or US citizens.

While a settled lifestyle may work well for connecting farmworkers to a clinic as a regular source of care, one expert I spoke with mentioned that even small changes in work site location could raise challenges to consistent care since many farmworkers carpool and do not have access to private transportation. Contract workers could be sent to different counties regularly, creating an unsettled day-to-day work life. Another expert noted that some workers prefer to get care in Mexico rather than in the US, so being settled does not necessarily preclude getting health care abroad.

**Figure 3**

*Increasingly, immigrant farmworkers in California live with their spouses*

![Graph showing the percentage of documented and undocumented farmworkers living with spouses over fiscal years 1989–2018.]

**SOURCE:** National Agricultural Workers Survey, fiscal years 1989–2018  
**NOTE:** Share of farmworkers residing with spouses shown. Weighted averages presented. Farmworkers include California survey participants, and immigrants are those born outside of the United States and Puerto Rico. Undocumented status is self-reported.

As farmworkers have become a settled workforce in the US, they have been aging; the average farmworker is now over 40 years old. Undocumented workers have tended to be younger than their documented counterparts, but they, too, are getting older (Figure 4). Older individuals will have greater health care needs, elevating the importance of addressing health care barriers among farmworkers and their family members.

Age also comes with a need for various preventive screenings that are not typically recommended for younger individuals. Those with undiagnosed conditions or who lacked access to care in the past can face negative health consequences in older years. For example, Sonoma County farmworkers mostly working in...
wine grapes had much higher rates of diagnosed diabetes compared to the county average (18% vs. 5%), and self-described fair or poor health (44% vs. 13%) (Moore et al. 2016).

In California, undocumented immigrants over age 50 are much less likely to have health insurance compared to documented immigrants (51% vs. 91%) (Cha and McConville 2021). The lack of insurance may be problematic for older farmworkers, especially those who will not be eligible for Medicare when they turn 65. Without insurance, these older adults may not have an affordable way to pay for their increasing health needs. One expert I interviewed emphasized that long-term care is a growing concern among aging farmworkers.

Figure 4
The average age of immigrant farmworkers has increased

![Graph showing the average age of immigrant farmworkers over fiscal years 1989–2018.](image)

SOURCE: National Agricultural Workers Survey, fiscal years 1989–2018
NOTE: Weighted averages presented. Farmworkers include California survey participants, and immigrants are those born outside of the United States and Puerto Rico. Undocumented status is self-reported.

### Changing Policies for Providing Health Insurance

The federal Patient Protection and Affordable Care Act of 2010, known as the ACA, expanded health insurance coverage, though most of its provisions do not apply to undocumented immigrants. In 2014, California expanded Medi-Cal, the state's Medicaid program (McConville and Cha 2019), to a broad population of low-income adults under the ACA.

Documented farmworkers who earn incomes less than 138 percent of federal poverty are now eligible to enroll in the program, but undocumented farmworkers have generally remained ineligible. The expansion does allow undocumented immigrants to access a version of Medi-Cal that covers medical emergencies and pregnancy-related services, and Medi-Cal covers specific conditions regardless of immigration status, but most undocumented immigrants are ineligible for comprehensive coverage.

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4. When Medi-Cal expanded in 2014, a family of four with income equivalent to 138 percent of federal poverty would have earned around $33,000.
The ACA also included an employer mandate, which required that employers with at least 50 full-time employees (or their equivalent) offer employer-supplied insurance to their workers (see Technical Appendix Figure A1 for how ACA provision years align with the years in this report’s analysis). Although most provisions of the ACA, namely the Medicaid expansion and marketplaces for purchasing non-group private coverage, exclude undocumented immigrants, employer insurance is not limited in the same way. As a result, the employer mandate could improve coverage for farmworkers regardless of their immigration status.

Another important ACA provision was to establish health care marketplaces where individuals can purchase private health insurance, and low-income individuals can receive government subsidies. Covered California is the state’s marketplace, and it now enrolls about 1.8 million residents. However, this is a small proportion of the state’s population, which is close to 40 million, and data limitations make it infeasible to detect the effects of the marketplace in this study.

Preliminary analyses before the employer mandate was implemented suggested that farmworkers would be left out of this expansion or would be difficult to track (Guild, Richards, and Ruiz 2016; Kissam 2014). Below, I address the effects on farmworkers now that the employer mandate has been in place for several years.

State Medi-Cal Expansions Focused on Undocumented Immigrants

In California, almost 1.3 million undocumented adults under age 65 were uninsured in 2022, making up an estimated 40 percent of the state’s uninsured individuals in this age group (Dietz et al. 2021). California policymakers have been responding by implementing expansions of Medi-Cal using mostly state funds. In May 2016, SB 75 extended Medi-Cal eligibility to low-income children under age 19, regardless of immigration status (California Legislative Information 2020). This was followed by SB 104, which used a similar approach to expand Medi-Cal to young adults under age 26, regardless of immigration status.

These state policies covered the youngest, and therefore, the least expensive age groups. In a deal between Governor Newsom and members of the legislature, California included a further expansion of Medi-Cal to undocumented older adults in the 2021 budget trailer bill. This latest policy change will take effect in May 2022, when California will expand Medi-Cal to all individuals ages 50 and over who meet income eligibility requirements regardless of immigration status. This age group has been growing as a proportion of the undocumented farmworker population in recent years (Figure 5).

The older adults are a relatively small, but expensive, group to cover. The expansion budget for these individuals includes funds for In-Home Support Services (IHSS), a Medi-Cal program that pays caregivers to help enrollees live independently (Beck 2015). The IHSS provision helps address the need for long-term care options for older undocumented farmworkers.
Governor Newsom’s January 2022 budget includes a proposal to expand Medi-Cal eligibility to low-income adults ages 26–49, regardless of immigration status. If enacted, this would cover the last remaining age group of undocumented immigrants. The governor frames this change as a way to reach universal coverage, since undocumented immigrants make up the vast majority of the state’s uninsured population following the ACA.

The political climate seems hospitable to the idea of expanded coverage for undocumented Californians: 66 percent of adults support health care coverage for undocumented immigrants, according to the PPIC Statewide Survey (Baldassare et al. 2021). Figure 5 further demonstrates that most (75% in 2018) undocumented farmworkers fall into the 26–49 age category. In contrast, earlier expansions to children and young adults affected relatively small shares of these farmworkers.

Barriers to Health Care for Farmworkers

Although a wide range of barriers may affect farmworkers’ access to health care, the ability to pay deters many farmworkers from getting care. Cost is a key reason for missing health care or prescriptions among low-income immigrants, and among undocumented immigrants in particular (Cha and McConville 2021). Insurance defrays out-of-pocket payments; lack of insurance is more prevalent among undocumented immigrants and likely drives their cost concerns.

Cost or Lack of Insurance Is the Most Common Barrier

Among those who sought health care, cost and insurance dominate farmworkers’ descriptions of barriers to
care. Thirty-five percent of undocumented farmworkers and 20 percent of documented farmworkers cite cost or lack of insurance as a barrier to getting care (Figure 6). In contrast, less than 10 percent of farmworkers report other barriers to care. These findings are similar to statewide patterns among low-income Latinos: delaying care due to cost or lack of insurance is a key barrier (62% vs. 38% reporting any other reason) (California Health Interview Survey 2019). Among uninsured low-income Latinos, the difference is starker (88% cost or lack of insurance vs. 12% reporting any other reason).

Barriers like transportation or not knowing where services are available are rarely mentioned as key difficulties in getting care even though farmworkers are likely to work in less urban areas than most immigrant workers in California. One expert from my interviews described contract farmworkers as sometimes working in multiple counties in a given week or month. Notably, undocumented status is infrequently cited, though immigration status clearly affects access to health insurance and the ability to pay for care.

Figure 6

Cost or lack of health insurance is by far farmworkers’ biggest barrier to health care

[Chart showing percentage of farmworkers citing various barriers to care, with cost or lack of insurance being the highest for both documented and undocumented farmworkers.]

**SOURCE:** National Agricultural Workers Survey, fiscal years 2010–2017

**NOTES:** Weighted averages presented. Farmworkers include California survey participants, and immigrants are those born outside of the United States and Puerto Rico. Excludes farmworkers who report never needing health care in the US (8% of documented, 18% of undocumented). Undocumented status is self-reported. Farmworkers can report more than one barrier. “All other barriers” include undocumented status, no transportation or health provider too far away, not knowing where services are available, needed services not being available, health provider not open when needed, health provider not speaking the farmworker’s language, health provider not being respectful or welcoming, health provider not understanding the farmworker’s problems, and a fear of job loss due to seeking care.

Over half of farmworkers have low incomes (below 200% of the federal poverty level), with higher poverty rates among undocumented farmworkers. Although the average farmworker has income around 317 percent of federal poverty, workers with children—and especially undocumented workers with

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5. Calculations using the American Community Survey use a proxy indicator of undocumented status (see Bohn et al. 2017 for details).
children—have lower incomes (215% and 200% of federal poverty on average). Median incomes are lower than the average; the median farmworker has an income equivalent to 191 percent of federal poverty.

Due to high poverty and high uninsured rates, Medi-Cal could serve this group well if eligibility were not a hurdle. Undocumented adults over age 26 primarily have access only to emergency and pregnancy-related services (Cha and McConville 2021). Most undocumented immigrants are ineligible for Medi-Cal and Covered California plans. They are, however, eligible for employer health insurance coverage, which is the most common form of coverage for Californians with insurance (Cha and McConville 2020).

### COVID-19 continues threatening farmworkers’ health and livelihoods

Work conditions during the pandemic did not feel safe for many farmworkers. Poor social distancing, masking protocols, and insufficient basic sanitation raised the risk of contracting the coronavirus (California Institute for Rural Studies 2021). Ongoing research that tracks infection among California farmworkers is documenting the impact of the virus on this group (Innovative Genomics Institute 2021).

One expert interviewed for this study emphasized the challenge of finding affordable housing in high-cost agricultural areas like coastal California, where berries and other crops are grown. Even before the pandemic, farmworker housing was a concern. Arrangements such as work camps do not suit today’s more settled farmworkers with families and children, and housing quality issues include mold and pests (Quandt et al. 2015).

While most farmworkers live in a house or apartment, a minority live in nonstandard abodes like tool sheds and camper shells (Marsh et al. 2015). Experts broadly agreed that crowded housing poses pandemic risk for farmworkers, but cautioned that growers’ focus on risk factors outside of work distracts from workplace risks. The truth may be somewhere in the middle: a study of farmworkers in Monterey County found that both workplace and household risk factors mattered for predicting coronavirus infection (Mora et al. 2021).

California’s Housing for the Harvest program offers agricultural and food processing workers who test positive for COVID-19 access to hotel rooms if they cannot self-isolate (California Department of Food and Agriculture 2020b). However, the program has had low participation, with farmworkers preferring to stay at home with their families and continue working (Botts 2021). The program now includes $1,000 in cash assistance and allows workers to shelter at home, changes that may increase participation.

During the public health emergency, restricted-scope Medi-Cal is covering COVID-19 testing and treatment, making these specific services available to low-income farmworkers regardless of immigration status (Gilbert 2020). However, farmworkers without full-scope coverage can face health issues related to the virus that may not be covered.

Concerns about long COVID, are especially salient among advocates for farmworkers. Farm work is physically demanding and even low levels of disability can make it difficult for farmworkers to perform to needed standards. By extension, if long COVID reduces agricultural labor supply, there could be disruptions to the food supply chain, affecting Californians and others well beyond the farmworker population.

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6. There are various exceptions, including emergency care, Medi-Cal coverage for specific conditions, and pregnancy coverage. Children and young adults are also currently eligible, regardless of immigration status. See Table 1 in our recent report for a summary (Cha and McConville 2021).

7. I recognize that immigration status is not a static characteristic. Past research shows that substantial proportions of documented immigrants have had previous undocumented experience in the US (Hayes and Hill 2008; Jasso et al. 2008). And previous research found that gaining permanent residency status was associated with higher likelihood of employer insurance (Kandilov and Kandilov 2010).
Health Services Used by Farmworkers

Farmworkers have fewer health care options compared to immigrants in urban areas, especially if they lack legal immigration status. My colleague and I have detailed the health services landscape for California’s undocumented immigrants (Cha and McConville 2021). The providers and programs we profiled—community clinics, public hospitals, and county programs for the medically indigent—are important for the farmworker population as well, although reception to undocumented immigrants could be less welcoming in some agricultural areas. Los Angeles County, which has the largest number of undocumented immigrants in the state (Dietz et al. 2021), operates My Health LA, a health services program serving low-income undocumented patients. In contrast, some counties with large agricultural sectors—such as Tulare and Merced—exclude undocumented immigrants from their indigent care programs (Insure the Uninsured Project 2019).  

Undocumented farmworkers were less likely than their documented counterparts to use either US-based or foreign health care. When workers had health insurance, however, it raised health care use by about 22 percent (Luo and Escalante 2018). In our survey data, most farmworkers report accessing health care in the past two years—in the US, abroad, or both—but undocumented workers are less likely to have gotten care in either of the locations (Figure 7). The higher rate of undocumented farmworkers reporting no care (44% vs. 23% of documented farmworkers) is consistent with research showing that undocumented immigrants in California are less likely to report having a usual source of care than documented immigrants (Cha and McConville 2021).

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8. Long COVID refers to a constellation of neurological and physiological symptoms following acute COVID-19 infection (Centers for Disease Control and Prevention 2021).

9. Indigent care programs are county-run health care providers of last resort. Counties are able to determine the services provided and eligibility criteria, including income levels and immigration status requirements.
Most farmworkers report getting health care in the past two years

Clinics are Important Health Care Providers for Farmworkers

Among farmworkers who received health care in the US, the majority relied on clinics, with documented workers more likely to visit a doctor’s office and undocumented workers more likely to visit a public clinic (Figure 8); this aligns with past work finding that undocumented immigrants had access to proximate clinics (Lee, Hill, and McConville 2012). It also fits with findings that clinics are key health care access points for low-income immigrants in California (Cha and McConville 2021).
Employers Play a Significant Role in Farmworker Health Care

Growers and contractors in farm work have a long history of wanting to provide health insurance to their employees, according to experts interviewed for this study. In contrast to industries like food service and construction, which also have heavily immigrant workforces with significant numbers of undocumented workers, these experts indicated that produce growers have a history of providing health insurance or services to their employees.

Growers and contractors want their workers to be healthy and to recognize the benefits of staying with their employer. One expert expressed that providing health insurance helps to define the relationship between employers and employees. Employers are motivated to build this bond because of a tight farm labor market, combined with highly mobile and smartphone-savvy farmworkers, who have good information about employer quality.

One model of insurance described in interviews is for a membership organization to pool risk across many growers and contractors; the organization issues health insurance plans in the same way many large corporations cover their employees. The membership organization can then coordinate activities such as meeting workers in the field to discuss benefits, encouraging preventive care, and scheduling appointments with specialists. This wrap-around approach has been around for decades, but whether more employers have extended health care or services to farmworkers after the ACA employer mandate is unclear.

Some large agricultural employers offer direct health services rather than health insurance, which farmworkers may report in the NAWS as a community or private clinic, depending on their interpretation. An
expert I spoke with explained that in specialty crops, growers try to directly hire the same workers year after year for their crop-specific skills. In the case of berries, the fruits ripen unevenly over time, and need repeated passes to harvest.\textsuperscript{10} Farmworkers remain with the crop for an extended period. Recruiting and retaining a skilled workforce is therefore a high priority, and berry growers may offer benefits like health services to compete for the best workers. Other experts emphasized that these motivations are not crop-specific, saying that the desire to give farmworkers health benefits is universal across the produce sector.

While the details differed, a wide range of interviewees with different perspectives emphasized the role of employers in farmworker health care. The analyses presented in the next section do not suggest that employer insurance changed following the ACA, so it may be that some employers were, and remain, committed to providing health care benefits, while others do not take this on.

**Insurance Coverage Patterns after Policy Changes**

Overall, health care insurance increased for undocumented farmworkers but more so for documented farmworkers. Medi-Cal coverage in particular increased for documented farmworkers after the expansion in California, but the changes associated with the employer mandate were muted or overtaken by Medi-Cal enrollments.

**Increased Rates of Farmworker Insurance Reflect the Medi-Cal Expansion**

Except for fiscal year 2010, insurance coverage among documented farmworkers increased over time, then leveled off in 2016.\textsuperscript{11} (Technical Appendix Table A3 shows that statistically adjusted analyses provide similar conclusions.\textsuperscript{12}) Figure 9 shows the changes in insurance coverage, Medi-Cal, and employer insurance for documented farmworkers. In the analyses, the increased insurance coverage grows to a maximum of 34 percentage points, or a 71 percent increase, in fiscal year 2016, before coming down somewhat in the last years of the study.

The increase in Medi-Cal follows a similar path. Over the study period, there is no clear pattern of employer insurance coverage over time: fiscal years 2013 and 2017 have the highest rates of employer coverage among documented farmworkers, suggesting no clear effect of the ACA employer mandate on coverage for this group.

\textsuperscript{10} For example, raspberries and blackberries must be harvested by hand when nearly completely ripe, with harvest occurring as often as one or two times weekly early in their season, and up to five times a week at peak periods (Bolda and University of California (System) 2012).

\textsuperscript{11} Fiscal year 2010, which began in 2009, may be an anomaly. It is the tail end of the Great Recession, and economic conditions in much of the state had not yet rebounded to pre-2007 levels. The findings from that year, especially the high rates of Medi-Cal coverage for documented farmworkers, could reflect those characteristics.

\textsuperscript{12} Findings from analogous models for farmworkers are in Technical Appendix Table A5, and for children of farmworkers in Technical Appendix Table A6.
Not surprisingly, findings for undocumented farmworkers are quite different. Figure 10 shows the changes in insurance coverage, Medi-Cal, and employer insurance for undocumented farmworkers. Their insured rate is lower in the years following the ACA Medi-Cal expansion and the rollout of the employer mandate. Medi-Cal coverage and employer insurance both fluctuate over time, but not in ways systematically correlated with health insurance policy changes. The increase in Medi-Cal coverage around 2014 is likely to be the emergency version of the program, but this change is much smaller than for documented farmworkers. In adjusted analyses, undocumented farmworkers’ insurance coverage was the highest in 2011, 2012, and 2013, years that preceded the health insurance policy expansions covered in the study period (Technical Appendix Table 3). Reported Medi-Cal coverage in particular was highest in fiscal year 2013 among undocumented farmworkers, and it is lower in the post-ACA-expansion period.
Neither Medi-Cal expansion nor the employer mandate correlated with large insurance gains for undocumented farmworkers

These patterns suggest that changes to undocumented workers’ sources of coverage did not correlate to policy changes—and in particular the employer mandate to offer insurance. The reported rates of Medi-Cal are likely to be restricted-scope care, or health services for specific covered conditions, which became available with the ACA expansion. There was also no discernable increase in coverage following the SB 75 expansion to young adults in 2016, which may simply reflect the relatively small statewide numbers of undocumented young adult farmworkers relative to older undocumented farmworkers (Figure 5, earlier).

The Employer Mandate Was not Associated with More Employer Coverage

As noted above, the findings for employer-supplied coverage differ quite a bit from the Medi-Cal results. Farmworkers’ own employer insurance changed over time in ways uncorrelated to the employer mandate rollout (Figure 9 and Figure 10, earlier). Farmworkers’ coverage through employers actually declined after the employer mandate was introduced (see Technical Appendix Table A3 for statistically adjusted analyses), while coverage for undocumented farmworkers fluctuated in ways inconsistent with the policy timing. For both of these groups, it seems that the employer mandate was not likely to have made a meaningful difference in their access to health insurance—or, by extension, reduction of cost barriers to care.

According to one expert, some employers who had offered health insurance to farmworkers before the ACA experienced “crowd-out” due to the Medi-Cal expansion. Crowd-out describes when individuals switch from private insurance to public insurance as a result of new eligibility for public coverage.

While employer coverage has out-of-pocket costs like premiums and co-pays, Medi-Cal requires zero cost-sharing from most of its enrollees. Levels of employer coverage may not have changed because, while
more employer coverage was available, individuals opted for Medi-Cal instead. If crowd-out is characterized by younger, healthier workers switching to Medi-Cal, this could lead to higher costs for those remaining on employer insurance, since employer plans would be responsible for supporting an older, more expensive population.

Another possibility is that fewer employers fall under the ACA employer mandate than expected. Growers can hire farmworkers directly, acquire labor through contracting companies, or a combination of the two. According to an expert interviewed for this study, direct hire is more common when employers need labor over an extended period rather than, for example, concentrated in a brief harvest.

For growers, the number of workers hired depends on many factors, including the crop type. Growing and harvesting commodities such as almonds involves a lot of mechanization, reducing the number of farmworkers needed. As a result, very large operations can have fewer than 50 employees, which is the threshold for the ACA employer mandate. Mechanization also means that farmworkers are interchangeable and individual skill is less important, possibly reducing growers’ need to retain specific workers.

Farm labor contractors, or FLCs, act as intermediaries in the agricultural labor market. They have a strong presence in California’s agricultural industry; as of March 2021, there were over 5,000 registered FLCs based in California (US Department of Labor 2021). It is difficult to estimate of the size of FLC operations precisely, although over three-quarters of private employers in California agriculture and related industries have fewer than 50 employees (Figure 11). This suggests that FLCs will tend to fall well below the ACA employer mandate threshold.

The experts I spoke with described FLCs as highly variable in terms of size, professionalization, and treatment of their contract farmworkers. A Sonoma County study documented lower rates of health insurance among contract farmworkers compared to farmworkers hired directly, though their finding was not significant (Moore et al. 2016). The experts had a range of opinions on whether FLCs offer health coverage at similar rates to growers; some said FLCs and growers are equally concerned with farmworker health care access, while others argued that growers tend to offer more benefits than FLCs.

13. While almonds were once harvested by having workers knock on trees, even as of several decades ago, mechanized shakers allowed operators to shake several trees a minute (Micke, University of California (System), and Division of Agriculture and Natural Resources 1996).

14. Under the Migrant and Seasonal Agricultural Worker Protection Act, companies must receive federal certification in order to perform farm labor contracting. Certified companies and their employees are listed on the Department of Labor website.
Most private employers in agriculture and related industries do not need to comply with the employer health insurance mandate. Seasonal work patterns and the increasing prevalence of contract labor and greater mechanization may mean that, despite being a $50 billion industry, most agricultural employers simply are not required by the ACA to extend insurance options to the workers in their fields, orchards, and vineyards. Even documented farmworkers, who can get full-scope Medi-Cal (if they meet income criteria) or purchase private coverage on Covered California, only had an 82 percent insured rate in fiscal year 2018, meaning that nearly one-fifth lack coverage.

Despite large policy changes in recent years, the need for affordable coverage, whether through employers, public insurance, or the marketplace, remains high for farmworkers. Identifying options for those who fall between the gaps will be a focus for policymakers, including the Healthy California for All Commission, which is charged with the task of planning a unified financing system that covers all Californians (California Health and Human Services Agency 2021). The ongoing COVID-19 pandemic raises the stakes of addressing health insurance and health care barriers for farmworkers, considering that agricultural work continues despite the health risks.

Fewer Cost or Insurance Concerns for Documented Immigrants

Undocumented farmworkers report cost or lack of insurance as a barrier to care at higher rates than do documented farmworkers. Cost concerns have, however, fluctuated over time for documented and undocumented farmworkers when controlling for other variables (Technical Appendix Table A4).

15. Technical Appendix Table A7 presents findings for analogous models of farmworkers, comparing contract workers to directly hired workers.
In fiscal year 2016, the year when insurance rates and Medi-Cal coverage peaked for documented workers, concerns about cost were significantly lower, although the other years following Medi-Cal expansion are similar to fiscal year 2013. For undocumented workers, cost as a barrier did not decline after the ACA policy changes. In fact, cost was a greater concern in some of the post-expansion years. The differences between the two groups’ reporting of cost barriers were significant in almost every year.

The timing of health insurance policies does not appear to be associated with changes to cost barriers for direct or contract employees. This is not surprising because there is no evidence that farmworkers who are hired directly or who are contracted workers were more likely to benefit from employer insurance following the employer mandate rollout (Appendix Table A7).

**Conclusion and Recommendations**

After recent health policy changes, what has changed for health insurance and barriers to care for farmworkers? Changes have not always come in expected ways, and changes have been unevenly distributed across farmworkers. The ACA employer mandate was not associated with increased insurance rates in general, nor with increased employer coverage in particular. However, the ACA Medi-Cal expansion did correlate with increased insurance and Medi-Cal coverage, but only among documented farmworkers. After the expansion, there is some evidence that fewer of these workers experienced cost or lack of insurance as a barrier to care.

Although I heard from some experts that farmworkers hired directly have better benefits than those hired through farm labor contractors, this did not manifest as employer insurance coverage. Insurance coverage for direct hires did not increase when the employer mandate was rolled out. It is possible that increased mechanization in agriculture has resulted in few companies with 50 or more workers, the threshold for the employer mandate. It is also possible that the Medi-Cal expansion produced crowd-out (in which people turn down private insurance to enroll in public insurance), eroding some amount of employer coverage expansion.

As California works towards a unified financing system for health care, most farmworkers will likely fall under some form of coverage. The question of whether and how to extend coverage and care to the largest group of undocumented immigrants—ages 26 to 49—is unanswered, but the state is discussing proposals. The governor's budget includes a proposed expansion to this group in 2024. One expert raised the questions of how health care could be unified over time and what role employer coverage may play in the future. Crowd-out to Medi-Cal can worsen the insurance risk pool, threatening the affordability (and even viability) of employer coverage of farmworkers.

Undocumented farmworkers could gain access to insurance by having their status regularized through federal reform, though this is not likely to happen soon. President Biden’s vision for immigration reform includes paths to citizenship for undocumented immigrants and fast-track regularization of status for undocumented farmworkers. A previous federal proposal called AgJOBS included a similar provision, but the policy was never enacted (Martin and Taylor 2013).

Although the discussion of farmworkers aging and settling presented these changes as a source of
vulnerability, interviewees saw the presence of family in the US as a strength. Family members can help promote health. One barrier to understanding health information is lower education; involving farmworkers’ children and spouses in medical visits and treatment plans can increase health literacy by making the process collaborative. Family members can also be part of treatment plans, such as new exercise routines.

I also learned that public health efforts could deploy a family-based approach during the pandemic. Disseminating COVID-19 vaccination information through family channels may be more culturally appropriate than social media campaigns. Trusted nonprofit and educational groups, including legal services organizations, schools, and migrant education programs, can play roles in sharing public health information. Vaccine clinics that inoculate farmworkers and their family members can control coronavirus spread through farmworker communities more effectively than those focusing only on workers.

State policy changes under discussion are likely to benefit farmworkers’ access to insurance coverage care, but challenges will remain. An adequate supply of farmworkers is one challenge. It is not clear whether new coverage options for undocumented immigrants will increase the farm labor supply by drawing workers from other agricultural destinations. In the past, farmworkers tended to migrate to places where they have personal networks rather than being attracted by generous safety nets (Pena 2009; 2014).

Another, equally complex problem is the lack of affordable housing options for farmworkers. Crowded housing is a key factor for health in this time of COVID-19. Given farmworkers’ important role in the economy and food supply chain, protecting their health could benefit all Californians.

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**Paulette Cha** is a research fellow at PPIC, where her work focuses on the health of underserved populations, especially children and immigrants. Her research has been published in peer-reviewed outlets including the *American Journal of Public Health* and the *Journal of Adolescent Health*, and she has been cited in numerous media outlets such as the *Sacramento Bee* and the *Orange County Register*. Before joining PPIC, she was a joint postdoctoral fellow at UCLA and the University of Southern California, and she has past experience evaluating social policy interventions in health and education for low-income individuals. She holds a PhD in health policy/health economics from the University of California, Berkeley.

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