

# Hepatitis C Treatment by Early-Career US Family Physicians

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**Background and Objectives:** Despite highly effective therapies for the hepatitis C virus (HCV), treatment rates remain low. Management of HCV is shifting to primary care, and family physicians are positioned to provide this care. Our objective was to determine the extent of early-career family physicians' provision of HCV treatment.

**Methods:** We merged 2016–2023 data from the American Board of Family Medicine National Graduate Survey, which is administered 3 years after completing residency, with state-level HCV mortality data from the Centers for Disease Control and Prevention (2017–2021). We conducted bivariate analyses to examine differences in HCV treatment by physician characteristics, practice type, and practice location. We created maps to visually explore HCV treatment and mortality by state.

**Results:** Overall, less than 20% of early-career family physicians reported treating HCV patients. Early-career family physicians HCV treatment rates exceeded 25% in 2016 and 2017, with rates falling to below 15% from 2018 to 2020, before rebounding to 23% in 2023. Early-career family physicians who were males, had MDs (compared to DOs), were international medical graduates, and were in nonmetropolitan areas and in medically underserved area practice types had significantly higher HCV treatment rates. State-level variation was observed, with higher early-career HCV treatment rates in states with higher HCV mortality.

**Conclusions:** While HCV treatment has been simplified over the past decade, HCV treatment by early-career family physicians has declined. Despite this decline, early-career family physicians have higher rates of HCV treatment in higher-need areas and in medically underserved practice settings. Supporting family physicians through education, clinical exposure, and incentives may increase provision of HCV care to address unmet needs.

## INTRODUCTION

More than 2 million people in the United States have chronic hepatitis C (HCV).<sup>1</sup> New annual cases of HCV doubled from 2013 to 2022, particularly among younger populations (ages 18–39), attributed largely to injection drug use.<sup>2,3</sup> Populations at the highest risk for HCV include incarcerated populations, which have HCV rates more than 10 times the general population; American Indian/Alaskan Natives, which have the highest incidence rates of HCV; and non-Hispanic Black populations, which have experienced the largest increase in cases over

the past few years.<sup>2,4</sup> Improving access to treatment is critical, because chronic HCV leads to long-term liver failure, liver cancer, cirrhosis, and eventually premature death.<sup>5</sup>

Over the last decade, the development of direct-acting antiviral therapies has greatly improved HCV treatment, with cure rates up to 95%.<sup>6</sup> However, large numbers of HCV patients are not being treated.<sup>7–9</sup> Focusing on privately and publicly insured adults, Thompson et al reported that only about one-third initiated treatment within a year of diagnosis,<sup>8</sup> and some recent reports have

suggested postpandemic reversals of gains in testing and treatment.<sup>9</sup> Tsang et al reported similar findings using 10 years of data from a commercial laboratory, finding that about 35% of patients with initial infection were cured, with cure rates ranging widely across US states.<sup>7</sup> These low HCV treatment rates can be attributed to several factors, including high costs, stigma, and state-level Medicaid policies, which have changed dramatically over the past decade and vary significantly across states.<sup>10–12</sup>

The Infectious Diseases Society of America explicitly called for increasing the number of primary care clinicians providing HCV treatment as critical to improving access to care.<sup>13</sup> Several studies have demonstrated the effectiveness of HCV treatment delivered by primary care physicians.<sup>14,15</sup> In a study of a high-risk population in a federally qualified health center, Kattakuzhy et al found that HCV treatment by nurse practitioners and primary care physicians was as safe and effective as care provided by HCV specialists.<sup>14</sup> In a primary care setting, Stewart et al implemented a population-based improvement intervention that increased HCV treatment rates from 66%–76%.<sup>15</sup> Despite these studies and increasing calls for expansion of nonspecialist HCV care to improve access to treatment, research has suggested that many primary care physicians have limited experience with HCV patients and lack the confidence to initiate treatment.<sup>11,16,17</sup>

Though family physicians are the largest group of primary care physicians, research on family physicians treating HCV patients is limited. A recent study using 2017 to 2021 data found that only 4% of final year resident family physicians intended to treat HCV,<sup>18</sup> but no studies have explored family physician engagement in HCV treatment at a national level. The overall objective of our research was to determine temporal and geographic trends in HCV treatment rates for early-career family physicians, while also exploring differences by physician characteristics, practice type, and practice location. We also examined the relationship between HCV treatment rates and HCV mortality at the state level.

## METHODS

In our research, we used self-reported HCV treatment data from the American Board of Family Medicine (ABFM) National Graduate Survey (2016–2023), which is administered to ABFM-certified physicians 3 years after residency graduation (defined as early-career), and state-level HCV mortality data from the Centers for Disease Control and Prevention (CDC, 2017–2021).<sup>19,20</sup> We excluded early-career family physicians who did not practice in the United States, who were missing their practice address, or who reported not doing patient care. Also excluded were early-career family physicians who had missing HCV treatment data.

Our primary outcome measure was HCV treatment rates, defined as the percentage of early-career family physicians self-reporting providing the pharmacologic management of HCV.<sup>19</sup> Medically underserved area (MUA) practices were defined as early-career family physicians practicing in

federally qualified health centers, rural health clinics, Indian Health Service, or correctional facilities. Any other practice type was defined as a non-MUA practice. Metropolitan status was defined based on the US Department of Agriculture rural-urban commuting area codes, which breaks down areas by zip codes according to the following classifications: metro (1–3); micro (4–6); small town (7–9); and rural (10). We defined all areas outside of metro (1–3) as nonmetropolitan (4–10).<sup>20</sup>

After creating trend lines to explore early-career family physician HCV treatment by year, we conducted *t* tests to determine differences in HCV treatment by physician characteristics (age, gender, medical degree, graduate location), practice type (MUA vs non-MUA), and practice location (metropolitan vs nonmetropolitan). Because our primary aim was descriptive, we did not use multivariable regression, though future analyses may examine independent associations. Next, data were aggregated to the state level, and we mapped early-career family physician HCV treatment rates for US states by tercile: The top 33rd percentile of states were defined as high-treatment states, while the bottom 33rd percentile were defined as low-treatment states. Finally, we merged state-level HCV mortality data, defined high and low HCV mortality states by tercile, and created a conditional map to explore the relationship between early-career family physician HCV treatment and HCV mortality.

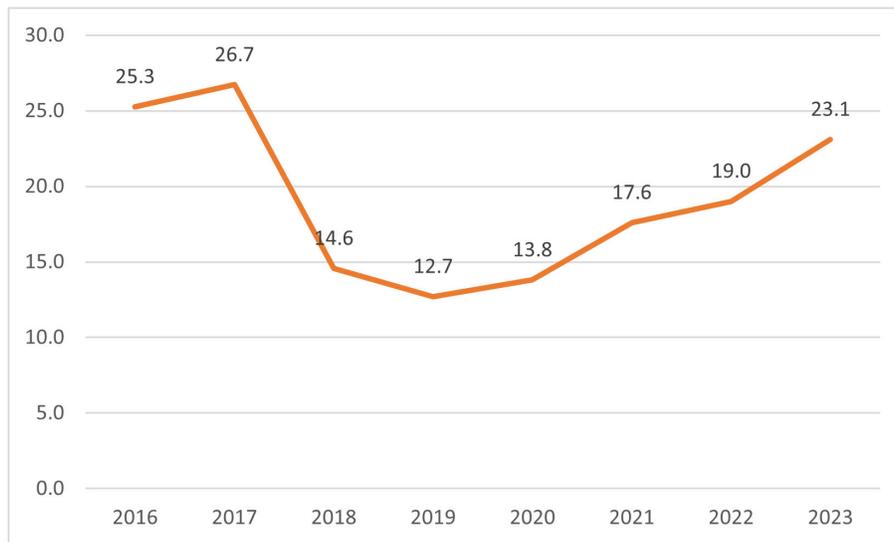
We used Microsoft Excel and GeoDa version 1.22.0.4 (GeoDa Center) to create maps and conduct the analyses. This research was considered exempt by the Institutional Review Board of the American Academy of Family Physicians.

## RESULTS

After applying exclusion criteria, our analytic sample included 14,837 early-career family physicians. From 2016 to 2023, about one-fifth of early-career family physicians reported providing HCV treatment, though the percentages varied by year (Figure 1). More than one-fourth of early-career family physicians reported treating HCV patients in 2016 and 2017; this declined to below 15% from 2018 to 2020, then increased back to 23% in 2023.<sup>21</sup>

Table 1 displays the characteristics of early-career family physicians providing HCV treatment. While females and US medical graduates made up the majority of our sample, males and international medical graduates had significantly higher HCV treatment rates. Also, early-career family physicians with medical degrees (MDs) had significantly higher HCV treatment rates than those with osteopathic degrees (DOs).

Early-career family physicians in nonmetropolitan areas have HCV treatment rates significantly higher than early-career family physicians in metropolitan areas. Early-career family physician HCV treatment rates increase as locations get more rural, with those located in rural and small towns having the highest HCV treatment rates. Early-career family physicians in MUA practices have significantly higher HCV

**FIGURE 1.** Percentage of Early-Career Family Physicians Providing HCV Treatment (2016–2023)

Abbreviation: HCV, hepatitis C virus

treatment rates (31.8%) than those in non-MUA practices (16.5%).

Figure 2 displays state-level geographic variation for early-career family physicians providing HCV treatment. The geographic patterns were clear; more than a dozen states had early-career family physician HCV treatment rates below 17%; these included several states in the Midwest, the Great Plains, Mid-Atlantic, and Mountain West. States with the highest early-career family physician HCV treatment rates (>25%) can be found throughout the United States—including Alaska, Idaho, Oregon, and New Mexico in the west; Alabama, Louisiana, and Florida in the southeast; and Vermont, Delaware, Massachusetts, and District of Columbia in the northeast.

Mapping HCV mortality by the percentage of early-career family physicians providing HCV treatment at the state level revealed geographic patterns (Figure 3). Many states with high HCV mortality also had high rates of early-career family physician HCV treatment, though a few exceptions were identified. Both Colorado and West Virginia had among the highest HCV mortality rates, but relatively low rates of early-career family physician HCV treatment.

## DISCUSSION

These findings highlight significant gaps in both early-career family physician HCV treatment provision and the availability of highly effective direct-acting antiviral therapies. We found a low percentage of early-career family physicians treating HCV patients, and the percentage has decreased over the past decade. This finding is consistent with previous research; estimates from the CDC identified a steady decline in HCV treatment from 2015 to 2020.<sup>22,23</sup> However, the data also showed that early-career family physicians in high-HCV

mortality states, rural areas, and MUA practice had higher rates of HCV treatment provision.

To achieve national goals of eliminating HCV by 2030, recently reinforced in Senate bill 1941, policymakers and educators must seize opportunities for family physicians to expand care in this area and help improve access to HCV treatment for the most vulnerable populations.<sup>24,25</sup> This necessity is particularly true in several high-need states, including Colorado and West Virginia, which have low rates of early-career family physicians providing HCV treatment and high rates of HCV mortality. Further, a recent study from the CDC found that fewer than 10% of patients diagnosed with HCV had been cured in West Virginia, compared to 34% for the United States. Colorado also was one of more than a dozen states with HCV cure rates below 26%.<sup>7</sup> Interestingly, our analysis suggests that state-level Medicaid barriers to treatment did not have an impact on early-career family physician HCV treatment rates; several states with few or no barriers to treatment (including Colorado) had relatively low early-career family physician HCV treatment rates. While this finding may be explained partly by the fact that state-level Medicaid laws changed dramatically during the study period (2016–2023), Medicaid restrictions may play a role in West Virginia's low early-career family physician HCV treatment rates because the state has several barriers for accessing treatment.<sup>12</sup>

Access to HCV treatment can be improved by increasing the number of primary care physicians who have the training, experience, and organizational support to initiate treatment.<sup>26,27</sup> Wang et al described how primary care physicians are ideally suited to guide patients through the HCV cascade of care—from screening, providing linkages to care, and

initiating treatment—and the importance of exposure to HCV treatment in residency training.<sup>27</sup> Improving HCV treatment rates through increased training in residency is logical given that research has found that behaviors in residency training carry over to practice, defined as “imprinting.”<sup>28</sup> However, previous research has found that low percentages of family physicians in their final year of residency training intend to treat HCV patients; this finding warrants more in-depth research on the impact of residency training on HCV treatment patterns.<sup>18</sup> Future research will look at links between residency preparation in HCV treatment and HCV treatment rates of family physicians over time as they move from early- to midcareer.

This study had a few limitations. First, we used self-reported survey responses to assess current early-career family physician HCV treatment behavior. These responses

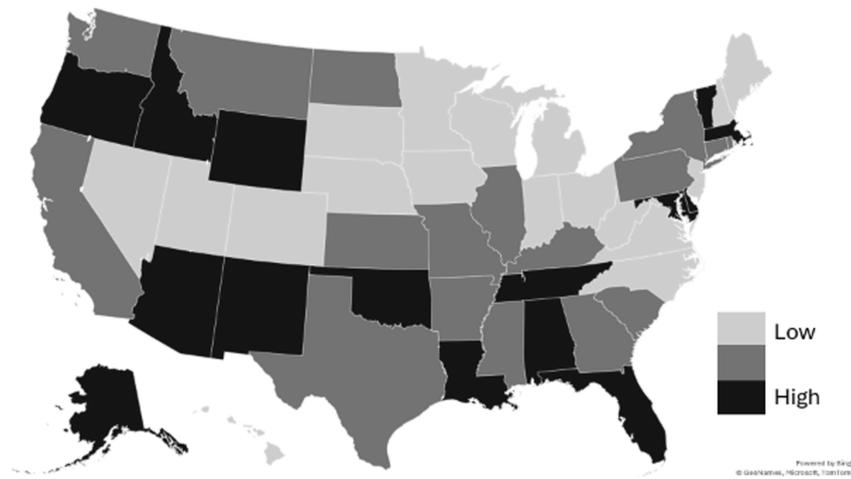
were subject to recall bias and social desirability bias, and the data did not include any details on the HCV treatment or whether the early-career family physicians were referring to specialists or using a Project ECHO-like telehealth model.<sup>29</sup> Further, pharmacy data were not available to verify that early-career family physicians were treating HCV patients. A related limitation was that practice type also was self-reported, meaning that some safety-net clinic types may not have been included as MUA practices. A second limitation involved our cross-sectional approach, which did not allow for identifying causal factors contributing to higher rates of early-career family physician HCV treatment provision. Future research topics include using qualitative approaches for gaining a more in-depth understanding of the factors that contribute to higher HCV treatment rates and better HCV clearance outcomes. A third limitation was related to

**TABLE 1.** Characteristics of Early-Career Family Physicians by Provision of HCV Treatment

	Early-career family physicians providing HCV treatment n (%)	All early-career family physicians n (%)	P value
<b>Total</b>	2,817 (19.0)	14,837	
<b>Degree</b>			<0.001
MD	2,335 (19.7)	11,872 (80.0)	
DO	482 (16.3)	2,965 (20.0)	
<b>Gender</b>			<0.001
Female	1,352 (16.3)	8,280 (55.9)	
Male	1,456 (22.3)	6,532 (44.1)	
<b>Graduate location</b>			<0.001
International medical graduates	979 (21.3)	4,586 (31.0)	
US medical graduates	1,838 (17.9)	10,251 (69.0)	
<b>Practice location</b>			<0.001
<i>Nonmetropolitan</i>	564 (21.6)	2,608 (17.6)	
Rural	91 (26.3)	346 (2.3)	
Small town	191 (21.2)	900 (6.1)	
Micropolitan	282 (20.7)	1,362 (9.2)	
<i>Metropolitan</i>	2,253 (18.4)	12,229 (82.4)	
<b>Practice type</b>			<0.001
<i>All MUA practices</i>	777 (31.8)	2,443 (16.4)	
Indian Health Service	61 (52.1)	117 (0.8)	
Rural health clinic	139 (23.6)	589 (4.0)	
Federally qualified health center	498 (32.1)	1,553 (10.5)	
Government clinic (nonfederal)	75 (42.1)	178 (1.2)	
<i>All Non-MUA practices</i>	2,040 (16.5)	12,394 (83.6)	
Academic health center	333 (21.9)	1,523 (10.2)	
Emergency medicine	67 (16.5)	406 (2.7)	
Federal	69 (11.6)	596 (4.0)	
Hospital/health system owned	641 (13.0)	4,922 (33.2)	
Hospitalist	393 (29.3)	1,343 (9.1)	
Independently owned medical practice	270 (16.0)	1,684 (11.4)	
Managed care/HMO practice	148 (17.2)	859 (5.8)	
Urgent care	33 (5.5)	595 (4.0)	
Work-site clinic	36 (20.0)	178 (1.2)	

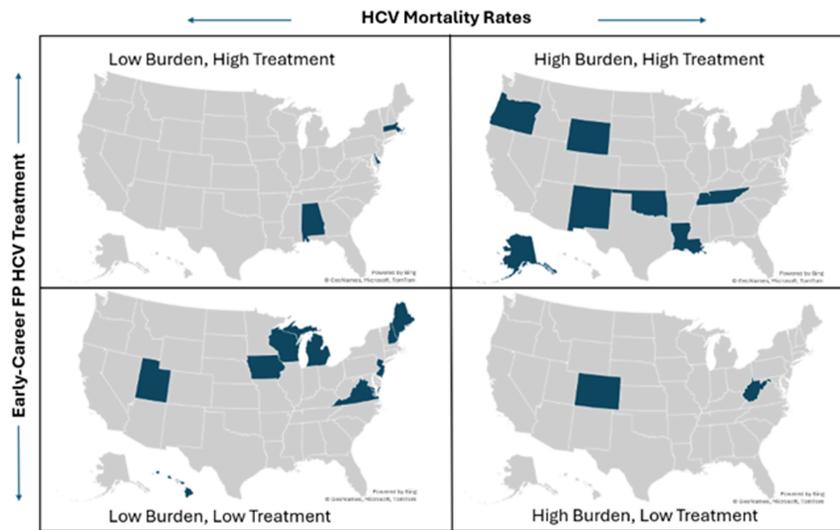
Abbreviations: HCV, hepatitis C virus; HMO, health maintenance organization; MUA, medically underserved area

**FIGURE 2.** Percentage of Early-Career Family Physicians Providing HCV Treatment by State



Early-career family physician HCV treatment rates for US states in the top 33rd percentile of states were defined as high-treatment states, while the bottom 33rd percentile of states were defined as low-treatment states.  
Abbreviation: HCV, hepatitis C virus

**FIGURE 3.** Relationship Between HCV Mortality and Early-Career Family Physician HCV Treatment Provision by State



High-burden, low-treatment states are defined as those in the top 33rd percentile of states for HCV mortality and the bottom 33rd percentile of states for early-career family physician HCV treatment rates.  
High-burden, high-treatment states are defined as those in the top 33rd percentile of states for HCV mortality and the top 33rd percentile of states for early-career family physician HCV treatment rates.  
Low-burden, high-treatment states are defined as those in the bottom 33rd percentile of states for HCV mortality and the top 33rd percentile of states for early-career family physician HCV treatment rates.  
Low-burden, low-treatment states are defined as those in the bottom 33rd percentile of states for HCV mortality and the bottom 33rd percentile of states for early-career family physician HCV treatment rates.  
Abbreviations: HCV, hepatitis C virus; FP, family physician

our state-level analyses, which were subject to the ecological fallacy and were proxies for population demand at the practice level. Future research will explore the relationship between HCV prevalence, mortality, and treatment for smaller geographies, including counties.

**CONCLUSIONS**

This study was the first to explore the role of early-career family physicians in treating HCV at a national level in

the United States. We found that while early-career family physician HCV treatment rates remain relatively low and have decreased over the past decade, early-career family physicians in the highest need areas (rural, MUA practice, high-burden states) are providing HCV treatment at higher rates. Reaching HCV elimination goals will require that family physicians take a larger role in providing HCV treatment, particularly among the most vulnerable populations.

## PRESENTATIONS

This research was presented at the North American Primary Care Research Group Annual Meeting, November 21–25, 2025, Atlanta, GA.

## CONFLICT DISCLOSURE

Dr Bazemore and Dr Peterson are employees of the American Board of Family Medicine.

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