Characteristics of Office-Based Buprenorphine Prescribers for Medicare Patients

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Introduction: Opioid use disorder (OUD) is a major and growing public health concern, and Medicare patients have nearly double the proportion of OUD prevalence compared with those with commercial insurance. This study examines provider-level characteristics to delineate the wide variation behind buprenorphine provision, which is the mainstay of medication-assisted treatment for OUD.

Methods: Using Medicare Part D Public Use Files claims data from 2013 to 2016 in all states, we assessed prescribing patterns of buprenorphine formulations for the specialties of family medicine, internal medicine, psychiatry, and general practice. We incorporated data from 2013 to 2016 American Medical Association Physician Masterfile to model various provider- and area-level characteristics as predictors of buprenorphine prescriber status.

Results: Family medicine and internal medicine comprise nearly two-thirds of the outpatient buprenorphine prescriber population for Medicare beneficiaries. Yet, both specialties also have the lowest proportion of active buprenorphine prescribers compared with psychiatrists and general practitioners. Additional characteristics associated with buprenorphine provision include male sex, osteopathic training, Northeast region, US undergraduate medical education, more years in practice, and a higher proportion of dual-eligible patients.

Conclusions: Primary care specialties, such as family medicine and internal medicine, currently comprise a significant majority of the US buprenorphine prescriber population for Medicare beneficiaries. Future policies should target specific demographics to enable greater patient access from physicians who are characteristically less likely to prescribe buprenorphine to increase overall capacity. (J Am Board Fam Med 2020;33:9–16.)

Keywords: American Medical Association, Buprenorphine, Medicare Part D, Opioid-Related Disorders, Primary Health Care, Public Health

The growing opioid epidemic has long been declared a national public health emergency, with nearly 1 million deaths attributable to opioid use disorder (OUD) since the turn of the century.¹ Medications for OUD (MOUD) are well established as the standard of care in OUD management and are associated with reduced rates of illicit drug

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use, overdoses, infectious disease transmission, and crime.^{2–5} Of the Food and Drug Administration (FDA)-approved MOUD options, buprenorphine has demonstrated the largest potential to increase continuous patient access safely through office-based therapy (OBT).^{6–8} Physicians have long been required by FDA policy to undergo an 8-hour training to obtain a DATA-2000 waiver to prescribe buprenorphine-containing medications.⁹ In the past couple of years, nurse practitioners and physician assistants have also been approved for waiver training under a new policy.

Despite innovative initiatives to begin buprenorphine inductions in hospital and emergency department settings,^{10,11} a widespread provision has been most limited by a bottleneck in the primary care workforce capacity. Although psychiatry is typically

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regarded as the specialty with the most extensive OUD training, primary care specialties may have a greater role in bridging access gaps, particularly in rural and urban underserved communities established as health professional shortage areas.^{12–14}

Little is known about provider-level characteristics for outpatient buprenorphine provision reimbursed by any payer model.¹⁵ Although nurse practitioners and physician assistants can also now become DATA-2000 waivered, most states still require physician oversight, especially with controlled substances. Previous studies suggest higher buprenorphine provision in urban and coastal counties, particularly in the Northeast.^{15,16} To our knowledge, the existing literature has not explored this provider population by specialty within Medicare, which accounted for nearly double the diagnosed OUD prevalence compared with commercial payers in 2015.¹⁷ Our objective was to describe the physician-level characteristics of the population of buprenorphine prescribers who treat Medicare beneficiaries.

Methods

We conducted a repeated cross-sectional study of Medicare Part D claims data for descriptive and regression analysis of specialty trends in buprenorphine provision. A list of buprenorphine-containing medications, validated by a board-certified addiction medicine specialist, is compiled in the Appendix.

Data Sources

This study includes prescribers in Medicare Part D Prescriber Public Use Files from 2013 to 2016 in all states and the District of Columbia. We combined Medicare Part D Prescriber Public Use Files with 2013 to 2016 Medicare Part D Provider Summary Public Use Files to obtain provider and patient panel characteristics. We further supplemented these data with information from the 2013 to 2016 American Medical Association Physician Masterfile to identify practice location, training, and other demographic trends. We used 2013 to 2016 Medicare Physician and Other Supplier Public Use File to identify physicians working as hospitalists. At the time of this study, we were unable to obtain DATA-2000 waiver rosters from the Drug Enforcement Agency or from the Substance Abuse and Mental Health Services Administration's Center for Substance Abuse Treatment to cross-reference physician waiver status.

Variables

We used the 2013 to 2016 American Medical Association Physician Masterfile to assess physician characteristics, including self-reported specialty, practice location by census region, age, sex, allopathic or osteopathic training, international or domestic medical school, and years in practice. We assessed patient panel characteristics from the Medicare Part D Provider Summary Public Use Files, including Medicare patient panel size, the proportion of a provider's patients with dualeligible beneficiary status with Medicare and Medicaid, and patient's average hierarchical condition category risk score. In cases where data on the race of patients were redacted, we imputed the share of patients who are white by using the difference between the total number of patients and the sum of patients of nonwhite races.

We limited included specialties by volume to the top 4 outpatient buprenorphine prescriber groups—family medicine, internal medicine, psychiatry, and general practice. Due to limited sensitivity of the Medicare Part D Public Use File claims database, physicians were only included if they billed for 11 or more instances of any prescription. We excluded any physician with more than 90% of annual claims from hospital-based settings for accurate capture of the OBT workforce. We also excluded physicians with fewer than 30 Medicare beneficiaries to mitigate bias of other missing information.

Statistical Analysis

We used STATA version 14 for all statistical analysis. Descriptive analysis characterized buprenorphine prescriber versus nonprescriber populations by various demographic factors. We then performed multivariate logistic regression analysis on nonpsychiatry primary care specialties to use provider-level factors as predictors of buprenorphine prescriber status, while adjusting for patient panel characteristics—sex, dual-eligible beneficiary status, and overall health status, as measured by hierarchical condition category risk score. Compared with the provider's full Medicare panel, the shares of white patients and dual-eligible beneficiaries were reported above and below the sample mean. The exclusion of psychiatry in this model was to

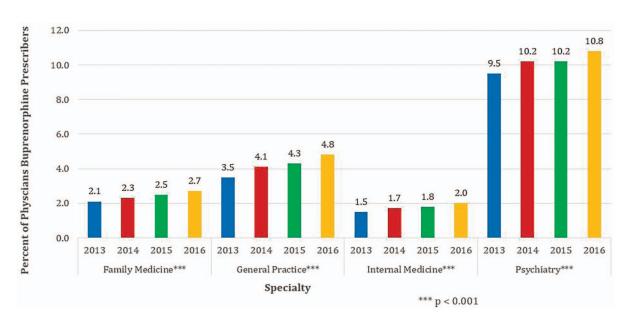


Figure 1. Percent of Buprenorphine prescribers within Specialty for medicare beneficiaries, 2013–2016.

delineate the variation specific to primary care fields, which make up the majority of the OBT workforce population for Medicare beneficiaries.

Results

Our sample included 597,975 physicians pooled across the 4 sample years (2013 to 2016) that were buprenorphine prescribers to the Medicare population (Table 1). Of these, 287,393 were family physicians, 242,146 were general internists, 16,184 were general practitioners, and 52,252 were psychiatrists. Within each specialty, we found wide variation in the overall percentage of buprenorphine prescribers. In 2016, psychiatry held the highest proportion of such buprenorphine prescribers at 10.8%, with general practice, family medicine, and internal medicine following at 4.8%, 2.7%, and 2.0%, respectively (Figure 1). All 4 specialties experienced slight increases across the study period at roughly equivalent rates.

However, an examination of workforce composition across specialties—as opposed to within each

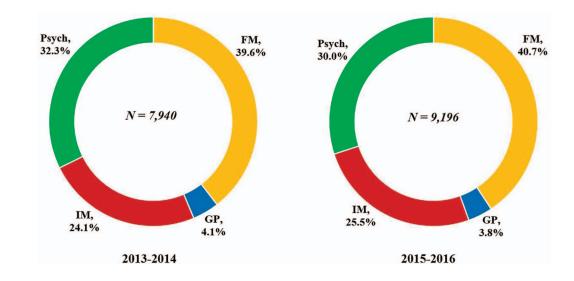


Figure 2. Share of Buprenorphine prescribers by Specialty for medicare beneficiaries, 2013–2016.

Characteristic	Prescribers of Buprenorphine, # (%)	Non-Prescribers of Buprenorphine, # (%)	Total Primary Care Providers, # (100%)		
Total	11,818 (2.2)	533,905 (97.8)	545,723		
Specialty					
Family Practice	6,891 (2.4)	280,502 (97.6)	287,393		
Internal Medicine	4,255 (1.8)	237,891 (98.2)	242,146		
General Practice	672 (4.2)	15,512 (95.8)	16,184		
Gender					
Male	9,177 (2.6)	339,010 (97.4)	348,187		
Female	2,641 (1.3)	194,895 (98.7)	197,536		
Degree Type					
Allopath	9,684 (2.0)	466,682 (98.0)	476,366		
Osteopath	2,134 (3.1)	67,223 (96.9)	69,357		
Medical School Type	, , , , ,				
USMG	10,414 (2.2)	467,959 (97.8)	478,373		
IMG	1,404 (2.1)	65,946 (97.9)	67,350		
Region			,		
Northeast	4,032 (3.7)	103,550 (96.3)	107,582		
Midwest	2,007 (1.6)	121,093 (98.4)	123,100		
South	3,809 (2.1)	180,015 (97.9)	183,824		
West	1,970 (1.5)	129,247 (98.5)	131,217		
Rurality	1,770 (115)		101,217		
Urban	10,091 (2.1)	470,514 (97.9)	480,605		
Rural	1,727 (2.7)	63,391 (97.3)	65,118		
Years Since Medical School	1,727 (2.7)	00,071 (77.0)	05,110		
<10	732 (1.4)	52,822 (98.6)	53,554		
10 to 14	1,164 (1.8)	65,225 (98.2)	66,389		
15 to 19	1,653 (1.9)	85,603 (98.1)	87,256		
20 to 29	3,561 (2.3)	154,105 (97.7)	157,666		
30+	4,708 (2.6)	176,150 (97.4)	180,858		
Number of Medicare Patients	4,708 (2.0)	170,150 (77.4)	100,000		
30 to 50	643 (3.1)	19,956 (96.9)	20,599		
50 to 200	4,027 (2.3)	,			
200 to 500	,	170,394 (97.7)	174,421		
>500	5,274 (2.1)	246,462 (97.9) 97,093 (98.1)	251,736 98,967		
	1,874 (1.9)	97,095 (98.1)	98,907		
Share of Medicare Patients who are	U	257 405 (09 7)	2(2,202		
<35% of Patients Dual Eligible	4,707 (1.3)	357,495 (98.7)	362,202		
35+% of Patients Dual Eligible	7,111 (3.9)	176,410 (96.1)	183,521		
Share of Medicare Patients who are		101 707 (07 0)	105 712		
<75% of Patients White	3,927 (2.1)	181,786 (97.9)	185,713		
75% + of Patients White	7,891 (2.2)	352,119 (97.8)	360,010		
Medicare Beneficiary Average HCC		141.074 (00.7)	142.007		
0.442-1.0551	1,942 (1.3)	141,964 (98.7)	143,906		
1.0552–1.2043	2,743 (2.0)	134,335 (98.0)	137,078		
1.2044–1.4128	3,576 (2.8)	125,077 (97.2)	128,653		
1.4129–9.1466	3,557 (2.6)	132,529 (97.4)	136,086		

IMG, International Medical School Graduate; USMG, US Medical School Graduate; HCC, Hierarchical Condition Category.

specialty—revealed instead that family medicine and internal medicine comprise a significant majority of outpatient buprenorphine prescribers. In 2016, two-thirds (66.6%) of the entire OBT buprenorphine prescriber population were physicians in family medicine and internal medicine. These proportions also did not change appreciably during the study period: family medicine, internal medi-

Table 2. Multivariate Logistic Regression Results forOdds of Buprenorphine Prescriber Status Based on2013 to 2016 Medicare Part D Public Use File Data

	Odds Ratio	(Standard Error
Specialty		
Family Medicine	REF	
Internal Medicine	0.689***	(0.0263)
General Practice	1.265***	(0.0953)
Gender		(,
Male	REF	
Female	0.512***	(0.0208)
Degree Type		(000200)
Allopathic	REF	
Osteopathic	1.341***	(0.0619)
Rurality	1.5 11	(0.0017)
Urban	REF	
Rural	0.968	(0.0482)
Region	0.700	(0.0102)
Northeast	REF	
Midwest	0.442***	(0.0227)
South	0.550***	(0.0227) (0.0239)
West	0.330	, ,
	0.437	(0.0221)
Medical School Type	DEE	
Domestic	REF	(0.0427)
International	0.818***	(0.0436)
Years Since Medical School		
<10	REF	(0.0050)
10 to 14	1.420***	(0.0958)
15 to 19	1.602***	(0.108)
20 to 29	1.890***	(0.120)
30+	1.935***	(0.123)
Number of Medicare Patie		
30 to 50	REF	
50 to 200	0.846***	(0.0506)
200 to 500	0.790***	(0.0487)
>500	0.678***	(0.0476)
Medicare Beneficiary Avera	age HCC Risk	Score
0.4420-1.0551	REF	
1.0552-1.2043	1.274***	(0.0516)
1.2044–1.4128	1.486***	(0.0682)
1.4129–9.1466	1.165***	(0.0585)
Share of Patients who are l	Dual Eligible	
<35% Patients Dual Eligible	e REF	
>35% Patients Dual Eligible	3.518***	(0.139)
Share of Patients who are	White	
<75% Patients White	REF	
>75% Patients White	1.622***	(0.0640)
Year		
2013	REF	
2014	1.141***	(0.0149)

Continued

Table 2. Continued

	Odds Ratio	(Standard Error)		
2015	1.227***	(0.0199)		
2016	1.368***	(0.0245)		
Constant	0.0106***	(0.00109)		
Observations	545,723			

***P < .01, **P < .05, *P < .1.

USMG, US Medical School Graduate; IMG, International Medical School Graduate, HCC, Hierarchical Condition Category; REF, "reference" point for the odds ratio comparisons within the regression model.

cine, psychiatry, and general practice comprised 40.7%, 25.5%, 30.0%, and 3.8% of the OBT prescriber workforce, respectively, from 2015 to 2016 (Figure 2). Notably, this lackluster change represents an important negative finding in a time period when many political resources and attention were being focused on treatment expansion for the opioid crisis.

Besides specialty, we noted statistically significant differences in nonpsychiatry provider demographics between prescribers and nonprescribers (Table 2). Primary care specialists were more likely to prescribe buprenorphine based on the following factors: increasing year as the study period went on, increased years out of residency, decreasing size of Medicare patient panel, and decreased white patient panel. The only nonsignificant finding was rurality.

Discussion

Well over a decade after DATA-2000 waivers were approved by Congress, buprenorphine provision continues to be woefully underutilized in OUD management. The present study found that family medicine and internal medicine comprise nearly two-thirds of the US OBT prescriber population, aligning with the relative proportions found by a national program director survey across these specialties.¹⁸ Yet, when we examined the proportion of each specialty that prescribes to the Medicare population, psychiatry boasted the highest within-specialty proportion of buprenorphine provision, with 10.8% of psychiatrists providing buprenorphine as opposed to only 2.7% of family physicians and 2.0% of general internists. This suggests that primary care specialists have more room for prescribing growth than previously estimated through a physician survey of buprenorphine provision.^{19,20}

Populations of primary care physicians who are less likely to be buprenorphine prescribers for Medicare patients are those with fewer years out of residency, those who are female physicians, those who practice in regions outside the Northeast, those with foreign medical training, those with larger panels of Medicare beneficiaries, those with smaller panels of dual-eligible beneficiaries, and those with larger panels of nonwhite patients. By targeting these demographics, future studies may identify specific interventions that increase OBT buprenorphine prescribing rates among such physician subgroups.¹⁷

Our study had several important limitations that are inherent to its design. First, our retrospective claims data limit causal interpretation for our findings. To overcome the limited sensitivity of Medicare Part D Public Use File database, we required 11 or more claims for inclusion. Second, we were unable to access diagnosis codes to delineate non-OUD indications, such as chronic pain. However, we attempted to mitigate this limitation by intentional exclusion of buprenorphine-containing formulations specific to pain management. Third, not all the medications that met our inclusion criteria are covered by Medicare; although, this should not cause a directional bias toward any particular specialty. Fourth, additional selection bias is introduced because some OBT prescribers avoid Medicare altogether through cash-only provision. Finally, approximately 28% Medicare beneficiaries do not receive Part D,²¹ resulting in an inability for our study to capture this subpopulation, which may potentially have a higher incidence of OUD. As mentioned in the introduction, we believe the current findings to be significant to policy makers given that the Medicare population boasts double the diagnosed OUD prevalence compared with populations of commercial payers.¹⁷ However, future studies would be necessary to make the determination of whether this article's findings translate to non-Medicare populations, especially given the challenge of integrating heterogeneous claim data from private and state-dependent Medicaid payers with highly diverse beneficiary inclusion and coverage criteria.

Primary care physicians may be empowered to play a key role in addressing the gap in MOUD provision to combat the opioid crisis through policy changes in their medical education. Removing the DATA-2000 waiver barrier may help increase physician prescribing rates—yet, waivers are only a part of the story. A known step-off exists between the potential, DATA-waivered, and active prescriber populations; in fact, a recent study estimates that nearly a quarter of DATA-waivered physicians are not active prescribers.¹⁸ Many theories exist for why this may be happening. A recent study suggests that even after an 8-hour training, more than onethird of waivered physicians may not feel they have adequate training to prescribe these medications without an experienced physician mentor.¹⁷

Graduate and continuing medical education programs of all primary care specialties must take strategic action to expand the quantity and quality of their addiction medicine curricula. Policy efforts to include MOUD provision as a core competency that is required to graduate from residency training programs may also help curb the growing mortality rate in the national opioid crisis. Future directions will include investigating similar trends in national Medicaid claim data to further generalize characteristics of high-frequency MOUD providers along the spectrum of provision.

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Generic Brand Equivalents Equivalents		Part D (Generic Name)	Part D (Brand Name)		
Buprenorphine HCl	N/A	BUPRENORPHINE HCL	BUPRENORPHINE HCL		
	Buprenex	BUPRENORPHINE HCL	BUPRENEX		
	Subutex	_	_		
	Sublocade	_	_		
	Belbuca	BELBUCA	BUPRENORPHINE HCL		
Buprenorphine Transdermal	Butrans	BUPRENORPHINE	BUTRANS		
Buprenorphine Subdermal	Probuphine	N/A	N/A		
Buprenophine + Naloxone	N/A	BUPRENORPHINE HCL/NALOXONE HCL	BUPRENORPHINE- NALOXONE		
	Suboxone	BUPRENORPHINE HCL/NALOXONE HCL	SUBOXONE		
	Zubsolv	BUPRENORPHINE HCL/NALOXONE HCL	ZUBSOLV		
	Bunavail	BUPRENORPHINE HCL/NALOXONE HCL	BUNAVAIL		

Appendix Table A. MAT Medications indexed in Medicare Part D

Appendix Table B. Prescribers of Buprenorphine in Medicare Part D by Specialty, 2013 to 2016

Specialty	Buprenorphine Prescriber	Year					
		2013	2014	2015	2016	Total	P Value
Family Medicine	No	68,040 (97.9)	69,821 (97.7)	70,651 (97.5)	71,990 (97.3)	280,502 (97.6)	< 0.001
	Yes	1,492 (2.1)	1,652 (2.3)	1,783 (2.5)	1,964 (2.7)	6,891 (2.4)	
	Total	69,532 (100)	71,473 (100)	72,434 (100)	73,954 (100)	287,393 (100)	
General Practice	No	4,148 (96.5)	3,981 (95.9)	3,759 (95.7)	3,624 (95.2)	15,512 (95.8)	0.049
	Yes	152 (3.5)	170 (4.1)	169 (4.3)	181 (4.8)	672 (4.2)	
	Total	4,300 (100)	4,151 (100)	3,928 (100)	3,805 (100)	16,184 (100)	
Internal Medicine	No	59,028 (98.5)	59,771 (98.3)	59,586 (98.2)	59,506 (98.0)	237,891 (98.2)	< 0.001
	Yes	886 (1.5)	1,026 (1.7)	1,116 (1.8)	1,227 (2.0)	4,255 (1.8)	
	Total	59,914 (100)	60,797 (100)	60,702 (100)	60,733 (100)	242,146 (100)	
Psychiatry	No	11,665 (90.5)	11,790 (89.8)	11,794 (89.8)	11,685 (89.2)	46,934 (89.8)	0.005
	Yes	1,219 (9.5)	1,343 (10.2)	1,341 (10.2)	1,415 (10.8)	5,318 (10.2)	
	Total	12,884 (100)	13,133 (100)	13,135 (100)	13,100 (100)	52,252 (100)	