Primary Care and Telehealth Spending Differed Across Primary Care Specialties During COVID-19 Stay-at-Home Order

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INTRODUCTION

The COVID-19 outbreak has disproportionately affected people with comorbid conditions and those in marginalized racial and ethnic groups.^{1,2} It has also prompted social distancing measures that disrupted care for patients through facility closures, restricted capacity, and delays in non-urgent care.³ Concerns about COVID-19 exposure in clinical settings may have also led patients to avoid necessary care.⁴ While early research has demonstrated a decline in ambulatory care visits along with a rapid uptick in telehealth service use,^{5,6} the impact of social distancing measures on primary care (PC) services among vulnerable populations, such as Medicaid enrollees and those receiving care in federally qualified health centers (FQHC), is unknown. On March 9, 2020, Rhode Island declared a state of emergency due to COVID-19, and on March 30 implemented a shelter-in-place order (the OR-DER). We assessed the association of the ORDER with outpatient primary care and telehealth spending among Medicaid enrollees.

METHODS

We analyzed claims for all 155,428 members of Rhode Island's largest Medicaid managed care organization (57.9% of Medicaid enrollees in the state). We focused on professional spending per member per week for primary care, defined as outpatient visits to family practice, pediatric, internal medicine, and obstetric and gynecologic (OB/GYN) specialties. We classified visits as occurring in FQHCs, independent or hospital-based clinics (Office), or as telehealth, which included telephone-only visits. We compared professional spending per member per week for visits between January and April of 2020 with a comparable period in 2019.

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RESULTS

We observed a 70.5% decline in primary care spending 6 weeks post-declaration, which was considerably higher for FQHCs as compared to office-based practices (77.1% vs. 66.2%) (Table 1). The decline in primary care spending also varied by specialty, ranging from 35.4% among OB/GYNs to 79.8% for family practice clinicians. Among the four specialties, three showed larger declines within FQHCs (87.3% for internal medicine, 55.7% for OB/GYN, and 78.3% for pediatrics, respectively) than in office-based practices (72.3%, 23.5%, and 66.9%). Spending on telehealth services increased in week 11 and markedly thereafter (Fig. 1). The use of telehealth varied across specialties; through week 16, 57.9% of family practice and 57.7% of internal medicine professional spending was telehealth, compared with 40.5% of pediatrics and 12.6% of OB/GYN spending. Among Medicaid subgroups, infants (< 1 year) had the smallest decline in PC spending following the ORDER (21.3% decrease), and the decline was less for FQHCs than for office-based practices (4.6% vs. 30.2%). For the other three subgroups, reductions in primary care spending were 12.1-20.3% greater among FQHCs as compared with office-based settings. All observed changes were statistically significant at p < 0.001.

DISCUSSION

FQHCs experienced a greater decline in PC spending than office-based practices following the ORDER. These declines may have been driven by specific FQHC responses or by differences in patient care-seeking behavior across settings. Across all providers, spending decreases varied by specialty, with the smallest decrease in OB/GYN care, perhaps due to providers prioritizing prenatal visits. Visits for infants only fell 21.3%, suggesting further prioritization of infant care. Why some specialties (family medicine, internal medicine) were able to more rapidly convert to telehealth cannot be determined from our data. Research is needed to identify the factors driving these observed variations. Additionally, these results may not be generalizable to Medicaid populations in other states. While all patients benefit from social distancing recommendations and precautions, high-risk patients with chronic conditions may be more likely to experience adverse outcomes from lack of face-to-face care. Future research should



Table 1 Six-Week Relative Changes in Outpatient Primary Care Spending and Proportion of Total Telehealth Spending, by Specialty and	
Medicaid Subgroup, March 9, 2020, through April 26, 2020	

Location of visits	Specialty				Medicaid subpopulation				
	Total	Family practice	Internal medicine	OB/ GYN	Pediatrics	Medicaid (< 1 year)	Medicaid (1–5 years)	Medicaid (6–14 years)	Medicaid (Female 15–44 years)
Total primary care spending, % change	70.5	-79.8	-76.9	-35.4	-69.9	-21.3	-78.8	-87.3	-62.0
FQHC	_ 77.1	-78.1	-87.3	-55.7	-78.3	-4.6	-86.5	-98.2	-73.0
Office		-82.4	-72.3	-23.5	-66.9	-30.2	-74.4	-81.7	-52.7
Telehealth spending, $\%^a$	46.5	57.9	57.7	12.6	40.5	20.6	35.3	47.3	42.7

All observed changes are statistically significant at p<0.001

Abbreviations: OB/GYN, obstetrics/gynecology; FQHC, federally qualified health centers

^aPercent of total spending made up by telehealth

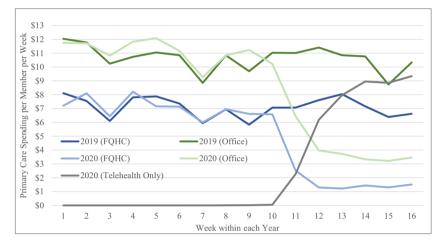


Figure 1 Trends in outpatient primary care spending for federally qualified health center, office-based practice and telehealth outpatient visits per member per week, 2019 vs. 2020. FQHC, federally qualified health center. 2019 data are from January 7, 2019, to April 28, 2019, and 2020 data are from January 6, 2020, to April 26, 2020.

investigate the factors that drove greater declines in FQHC PC spending as compared to office-based practices including differences in patient care-seeking behavior across sites as well as related health outcomes.

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