# Description of patients' characteristics receiving pharmacist-provided clinical services under Ohio Senate Bill 265

Young Eun Shin, PharmD, MS<sup>1</sup>; Anne Metzger, PharmD, BCACP <sup>1</sup>; Rebecca Lahrman, PharmD, MS, BCACP<sup>2</sup>; Stuart Beatty, PharmD, BCACP, FAPhA<sup>2</sup>; Ana L. Hincapie, PhD<sup>1</sup> <sup>1</sup>University of Cincinnati, James L. Winkle College of Pharmacy <sup>2</sup>The Ohio State University College of Pharmacy

University of CINCINNATI JAMES L. WINKLE COLLEGE OF PHARMACY

# BACKGROUND

- 2019: Senate Bill (SB) 265 passed in Ohio allowed pharmacists to bill and reimburse for clinical services
- 2020: Ohio Medicaid pilot program launched implementing provider status
- Pharmacist-provided interventions improve clinical outcomes, reduce emergency department use, and decrease hospital readmission rates

# OBJECTIVE

 To describe characteristics of patients who received pharmacists' services billed under the SB265 in one Ohio Managed Care Organization MCO

## **METHODS**

## • Study Design

- Observational, retrospective, and descriptive analysis
- Data Collection
- Used an Ohioan MCOs' aggregated pharmacy & medical claims data of Medicaid eligible adult patients for whom pharmacists billed clinical visits between October 2020 and December 2021
- Data came from 7 independent pharmacies who participated in the implementation of this MCO's program.
- Pharmacy services
- MCO gave pharmacies autonomy on selecting services to be implemented and type of patients.
- Billed services varied across the 7 pharmacies
- MTM (CMR with actual follow up on motivational interviewing), Mental health services (PHQ9/GAD7 assessment and adherence counseling), Hypertension management with at home BP cuff, and diabetes and smoking cessation counseling.
- Data Analyses
- Descriptive statistics (e.g., median, interquartile range (IQR), frequencies and proportions).
- Outcomes included patients' demographics and total spending in pharmacy and medical services.
- Total healthcare expenditure was measured by calculating the total cost
- associated with healthcare services utilization related to PCP, ED, and IP.
  The difference between the healthcare utilization and associated cost was calculated before and after the first pharmacist billed visit .

## RESULTS

- In the first 15 months of program implementation, the pharmacies billed for 3,656 Medicaid patients
  - Average 34 unique patients per pharmacy per month
- Demographics
  - Females (65.9% n= 2,372), white (88.1% n=3,221) Mean age of 40 years old (SD=13.9).

## Table 1: Hea

#### Vari

Visit Claims/pa Primary Care P Emergency De Inpatient Pharmacy Visit

Total spending

Primary Care P

Emergency De

Inpatient

Pharmacy Visit Total spending

Average spend Primary Care P Emergency De

Inpatient

IQR= Interquartile signed-rank test.

### Table 2: Sun

Outpatient visi patient

99201: 10 minu

99202: 20 minu

99203: 30 minu

Outpatient visit established pat

99211: 5 minute

99212: 10 minu

99213: 15 minu

Telephone eval patient

99441: 5-10 mir

99442: 11-20 m

99443: 21-30 m

G2012 Brief co minutes

able	Pre-Index date	Post-Index date	Difference
tient	Median (IQR)	Median (IQR)	
rovider	2 (1-4)	3 (1-5)	1
partment	2 (1-3)	1 (1-2)	-1
	6 (3-13)	5 (3-10)	-1
		4 (2-7)	
rovider	\$441,356.4	\$491,696.1	\$50,339.70
partment	\$1,370,788	\$1,367,487	-\$3,301
	\$4,433,264	\$4,8019,32	\$368,668.0
		\$1,517,521	
	\$6,245,408.40	\$8,178,636.1 0	
ing /patient	Median (IQR)	Median (IQR)	
rovider	\$98.4 (\$47.9-\$196.5)	\$110.1 (\$55.9-\$203.0)	\$11.70**
partment	\$547.52 (\$193.1-\$1,193.4)	\$551.0 (\$195.6-\$1,106)	\$3.80
	\$5,234.4 (\$339.7-%11,676.4)	\$4,839.1 (\$236.1-\$9,626.6)	-\$395

IQR= Interquartile Range, \*Index date=6 months before & 6 months after 1<sup>st</sup> pharmacist billed visit, \*\*Statistically significantly different using Wilcoxon

mary of CPT codes billed for pharmacy services after provider status implementation				
Billing CPT Codes	Number (%) of claims post Index date	Median (IQR) claims per patient		
for the evaluation and management of a new				
tes	25 (0.7)	1 (1-1)		
tes	358 (9.8)	1 (1-1)		
tes	957 (26.2)	1 (1-2)		
for the evaluation and management of an ient				
es	424 (11.6)	1 (1-2)		
tes	1,275 (34.8)	1 (1-2)		
tes	3,150 (86.4)	3 (1-5)		
uation and management service of an established				
nutes	121 (3.3)	1 (1-1)		
inutes	217 (5.9)	1 (1-1)		
inutes	104 (2.8)	2 (1-2)		
mmunication technology-based service 5-10	2 (0.05)			



## tinued results

over 80% of patients had two or more visits with a pharmacist (n=3,013)

lost frequent primary diagnosis associated with the pharmacy billing claim was a chronic ondition (diabetes, COPD, asthma, hypertension, or hyperlipidemia) 6.9%, and opioid ependence 5.9%.

able 1 shows healthcare utilization and spending how differed from before to after the nplementation of provider status.

he most frequently used and reimbursed CPT code for billing pharmacist's visits was **CPT-9213**, used in 86.1% (n=3,150) of patients (See Table 2).

ne second most frequently used code was CPT-99212 in 34.8% of patients (n=1,275).

## Discussion

The CPT codes that were most billed and reimbursed for were 99213 and 99212 - provider odes that represent "outpatient visit for the evaluation and management of an established patient"

hanges in the number of claims were expected

- Increase in PCP claims may have occurred because of the expansion of chronic disease management allowed by pharmacists' provider status
- CPAs allow pharmacists to engage in interdisciplinary care and therefore more easily refer patients to PCPs in chronic care
- CPT codes that were most billed and reimbursed for were 99213 and 99212
  - Martin et al (2020): CPT codes 99490 and 99487 for chronic care management
     Clinic-based pharmacists
  - Tran et al (2022): code 96127 for depression screening and G0439 for annual wellness visits
    - Clinic- and hospital-based pharmacists
  - The interventions performed in Martin et al and Tran et al could be grouped into the provider codes chronic care management

## Limitations

No control group, potential for bias

Program implementation occurred during first year of Covid-19, potentially impacting healthcare utilization

No information available to calculate return on investment

# Conclusion

Pharmacists providing services were able to meet a wide range of patients with targeted clinical services to meet the patients needs.

Pharmacists billed and got reimbursed for a wide range of billing codes, more frequently for office visits than telephone/internet visits.



