

Background¹⁻⁵

- Medication therapy management (MTM) is a mandated clinical service offered to Medicare beneficiaries for improving medication use, optimizing therapeutic outcomes, and reducing adverse events
- The Centers for Medicare and Medicaid Services (CMS) specifically named pharmacists as one of the professionals to provide MTM
- Pharmacists provide MTM services, with specific Current Procedural Terminology (CPT) codes allocated for their clinical services (99605-99607, 98966-98968, 99211-99215)
- While legislative support exists and pharmacists' clinical services are potentially available, there may be a disparity between reported availability and the actual prevalence of these services in real-world settings
- The objective was to assess the prevalence of CPT codes 99605-99607, 98966-989968, and 99211-99215 in documenting and billing pharmacists’ clinical services

Outcomes

- Primary:** Estimate prevalence of pharmacists’ services using CPT codes 99605-99607
- Secondary:** Examine prevalence rates of potential alternative CPT codes for pharmacists’ clinical services 98966-989968, and 99211-99215

References

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Authors report no conflicts of interest related to this research

Methods

- This retrospective study used the Merative™ MarketScan® Medicare database
- Patients with CPT codes 99605-99607 for face-to-face MTM services, 98966-98968 for telephonic assessment and management (A/M) services, and 99211-99215 for evaluation and management (E/M) services were identified from outpatient claims
 - Timeframe: January 1, 2016 – December 31, 2020
- Descriptive statistics, including prevalence rates, were calculated using SAS 9.4
- Study was approved by the University Institutional Review Board and followed the STROBE guidelines

Results

- A total of 2,784,629 patients were identified between 2016 and 2020 (See Table I)
- Prevalence rates varied during this period:
 - MTM face-to-face CPT codes: 0.06% with lowest rate in 2020
 - Telephonic A/M codes: 0.58% with increasing rates in 2019 and 2020
 - E/M CPT codes: 87% with highest rates with CPT E/M codes 99213 and 99214

Table I. Individuals with CPT Codes by Year, 2016-2020

Year	Patients with Insurance Enrollment Records	Face-to-face Medication Therapy Management (MTM) services			Total face-to-face MTM services	Telephonic Assessment and Management (A/M) services			Total telephonic (A/M) services	Evaluation and Management (E/M) services					Total E/M services
		99605 N (%)	99606 N (%)	99607 N (%)		98966 N (%)	98967 N (%)	98968 N (%)		99211 N (%)	99212 N (%)	99213 N (%)	99214 N (%)	99215 N (%)	
2016	2138719	98 (0.005)	609 (0.028)	97 (0.005)	684 (0.032)	566 (0.026)	347 (0.016)	146 (0.007)	843 (0.039)	94834 (4.434)	471702 (22.055)	1500144 (70.142)	1504307 (70.337)	320790 (14.999)	1799263 (84.128)
2017	1473787	63 (0.004)	676 (0.046)	52 (0.004)	723 (0.049)	124 (0.008)	75 (0.005)	60 (0.004)	220 (0.015)	61243 (4.155)	309135 (20.976)	1035504 (70.261)	1048525 (71.145)	221061 (15.000)	1240852 (84.195)
2018	1130613	64 (0.006)	539 (0.048)	56 (0.005)	578 (0.051)	1323 (0.117)	679 (0.060)	297 (0.026)	1731 (0.153)	42712 (3.778)	223396 (19.759)	776582 (68.687)	793663 (70.198)	166340 (14.712)	945517 (83.629)
2019	649479	44 (0.007)	348 (0.054)	62 (0.010)	374 (0.058)	1458 (0.224)	912 (0.140)	390 (0.060)	2151 (0.331)	20684 (3.185)	113978 (17.549)	444027 (68.367)	459566 (70.759)	95801 (14.750)	540404 (83.206)
2020	992905	24 (0.002)	77 (0.008)	30 (0.003)	93 (0.009)	7641 (0.770)	5135 (0.517)	3609 (0.363)	12842 (1.293)	39294 (3.957)	153896 (15.500)	648163 (65.279)	681112 (68.598)	126996 (12.790)	817257 (82.310)
Total Sum (Patients)*	2784629	279 (0.010)	1485 (0.053)	250 (0.009)	1658 (0.060)	10128 (0.364)	6652 (0.239)	4342 (0.156)	16142 (0.580)	207964 (7.468)	892069 (30.035)	2147743 (77.129)	2155640 (77.412)	654454 (23.502)	2417244 (86.807)

* Patients may have multiple codes through multiple years; CPT= Current Procedural Terminology; MTM: Medication Therapy Management

Conclusions

- Study findings exhibited a limited adoption rate for MTM CPT codes in billing pharmacists’ clinical services
- Future studies may focus on E/M CPT Codes
- Future research may focus on assessing pharmacists’ perceptions and identifying facilitators and barriers for to the use of CPT codes in billing pharmacists’ clinical services