

Uptake of Obesity Intensive Behavioral Treatment Codes in Medicare Beneficiaries, 2012–2015

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INTRODUCTION

Obesity prevalence has risen to 41% among adults aged 60 and older in the USA.¹ Rising rates are predicted to have significant medical, socio-economic, and health policy implications due to cumulative multimorbidity coupled with progressive disability. In 2011, payment for intensive behavioral therapy (IBT) for obesity was approved by the Centers for Medicare and Medicaid. In 2018, US Preventive Services Task Force recommended that clinicians offer multicomponent IBT for adults of all ages with body mass index ≥ 30 kg/m², but outline the limited evidence of long-term health outcomes in older adults.² Data favor intentional weight loss to improve function and quality of life in older adults³, despite the weakening evidence for the obesity paradox. While face-to-face individual IBT and group codes (added in 2015) pay for up to 22 visits/year in primary care, there is concern about underutilization of IBT due to operational challenges.^{4, 5} Our objective was to analyze the trends in uptake of IBT during the initial 4 years of implementation.

METHODS

We performed serial, cross-sectional analyses of Medicare Part B claims for IBT for both individual and group visits between 2012 and 2015, including fee-for-service Medicare beneficiaries enrolled in Parts A and B. Demographic

data were obtained from the Medicare denominator file. We report IBT use as the number and percentage of beneficiaries using IBT and the number of IBT visits per beneficiary. Common Procedural Treatment Code of G0447 and G0473 (for individual and group counseling, respectively) identified IBT. The uptake rate per 1000 beneficiaries with obesity was calculated as a ratio of the number of beneficiaries utilizing IBT (based on Part B claims) to the state-specific prevalence of obesity, as previously described using Behavioral Risk Factor Surveillance System data.⁴ Due to the current disparities in state obesity prevalence, IBT uptake by state was analyzed to study correlation of uptake to the magnitude of obesity challenge. Aggregated results are presented nationally, stratified by sex, race, and quintiles of state obesity prevalence (low to high).

RESULTS

Utilization remains low from 2012 to 2015 at 0.10%, 0.17%, 0.17%, and 0.20% respectively (Table 1). Overall uptake changed minimally over time (3.50, 6.00, 6.06, and 7.31 per 1000 beneficiaries) as did the number of visits per beneficiary. Group counseling visits were higher at 5.9 visits/beneficiary compared with 2.1 visits/beneficiary for individual counseling, although absolute use of group visits was low. There was no significant correlation between quintiles of state obesity prevalence and uptake in each year of the benefit (Fig. 1).

DISCUSSION

IBT for obesity in Medicare beneficiaries remains underutilized, even in states with high obesity prevalence. We found no increase in the number of beneficiaries for either individual or group counseling over its first 4 years, although those using the benefit received more visits if

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Table 1 Intensive Behavioral Therapy Claims (G0447, G0473) Among Medicare Beneficiaries, 2012–2015

	CY2012		CY2013		CY2014		CY2015		CY2015	
	Individual G0447		Individual G0447		Individual G0447		Individual G0447		Group G0473	
	No. of users N (%)	Claims per user*	No. of users N (%)	Claims per user*	No. of users N (%)	Claims per user*	No. of users N (%)	Claims per user*	No. of users N (%)	Claims per user*
Overall count	27,338 (0.1)	1.99	46,821 (0.17)	2.16	46,171 (0.17)	2.18	57,136 (0.2)	2.10	440 (0.0)	5.90
Sex										
Female	16,894 (0.11)	2.06	29,195 (0.18)	2.24	28,120 (0.18)	2.25	34,414 (0.22)	2.17	319 (0.0)	6.01
Male	10,444 (0.09)	1.87	17,626 (0.14)	2.03	18,051 (0.15)	2.06	22,722 (0.18)	1.99	121 (0.0)	5.64
Race†										
Black	2588 (0.12)	1.89	4682 (0.21)	2.09	4744 (0.22)	2.11	6206 (0.29)	2.05	62 (0.0)	3.29
Non-Black	24,750 (0.10)	2.00	42,139 (0.16)	2.17	41,427 (0.16)	2.18	50,930 (0.20)	2.10	378 (0.0)	6.33
State-level obesity prevalence quintiles‡										
Quintile 1	5703 (0.09)	2.11	5437 (0.12)	2.02	14,332 (0.21)	2.13	16,897 (0.28)	2.04	134 (0.01)	8.16
Quintile 2	3772 (0.09)	2.00	14,564 (0.21)	2.24	2946 (0.09)	2.68	14,819 (0.27)	2.00	46 (0.0)	3.54
Quintile 3	3375 (0.09)	2.10	4928 (0.09)	2.47	13,507 (0.26)	2.11	5523 (0.12)	2.13	75 (0.0)	4.92
Quintile 4	6385 (0.09)	1.78	8127 (0.13)	2.09	5148 (0.11)	2.12	11,982 (0.18)	2.09	0 (0.0)	0.00
Quintile 5	1835 (0.03)	2.23	3919 (0.08)	2.26	10,221 (0.14)	2.20	6204 (0.12)	2.27	1049 (0.03)	6.19

Values represented are number of beneficiaries availing of the IBT benefit (percentage). The number of eligible Medicare beneficiaries whose body mass index (BMI) was ≥ 30 kg/m² in 2012, 2013, 2014, and 2015 was 27,971,740; 28,146,952; 27,767,493; and 27,954,001, respectively
CY calendar year

*Claims per user represent the ratio of the overall number of any intensive behavioral therapy (IBT) claims and the number of beneficiaries using IBT beneficiary population in the given stratum; claims were fee-for-service Medicare Part B claims

†Proportion of IBT users with obesity that are classified as Black do not include certain states in BRFSS due to cell suppression

‡Quintiles of state-level obesity prevalence are grouped according to the lowest 20% (quintile 1) and highest (quintile 5). Data on obesity prevalence was obtained from the 2012–2015 Behavioral Risk Factor Surveillance System (<http://www.cdc.gov/brfss>)

they participated in groups. The greater number of sessions for group IBT visits may partly be in response to workflow issues as group visits enhance operational efficiencies. Additional implementation barriers may be the result of a lack of clinician training for obesity counseling and an ability to efficiently document visits in the EMR; a collaborative is working toward increased training to prepare future health care professionals better.⁶

For a primary care office workflow, the number of visits coupled with low reimbursement relative to other potential office-based evaluation and management services could potentially explain its continued lack of implementation. While the goal uptake rate is hard to extrapolate despite the efficacy of weight loss interventions in older adults, uptake of the Annual Wellness Visit approached 17% in its first 4 years.

The competing degrees of comorbidities with variable disability could shift the focus of care of the beneficiary towards seeking treatment than prevention. The IBT's continued low uptake calls for a re-evaluation of its structural design for beneficiaries and providers. For older adults, such frequent, short (15 min) sessions may not be feasible due to competing medical priorities and transportation barriers. While the proposed congressional bill, "Treat and Reduce Obesity Act of 2017", has potential to increase obesity counseling by allowing non-physician members (e.g., clinical psychologists, registered dietitians, or other trained professionals) to provide IBT, it has not advanced since its introduction. Exploring telemedicine visits may increase uptake and extend services to persons with limited access to care, mobility dependency, or transportation barriers, particularly for rural residents.

Trends in Intensive Behavioral Therapy Uptake by State Obesity Prevalence, 2012-2015

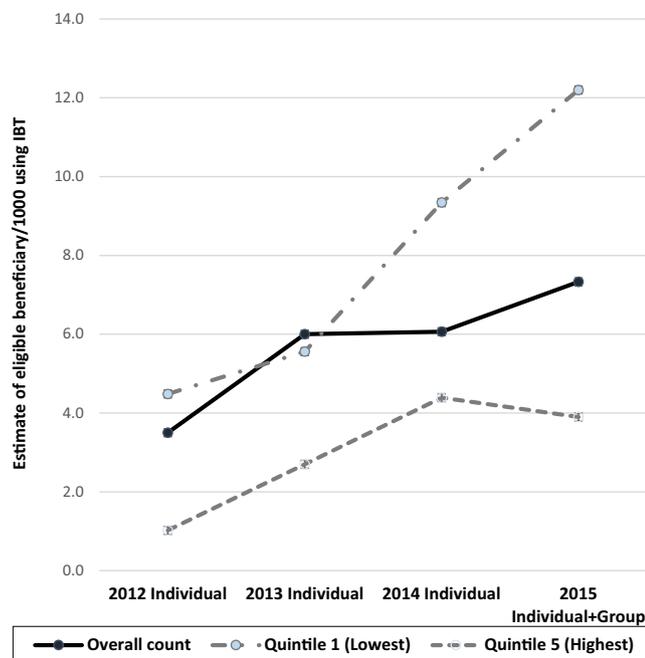


Figure 1 Trends in IBT uptake between states with lowest and highest quintiles of obesity prevalence against overall IBT uptake (individual IBT 2012–2014 and individual/group combined in 2015).

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Compliance with Ethical Standards:

Conflict of Interest: The authors declare that they do not have a conflict of interest.

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