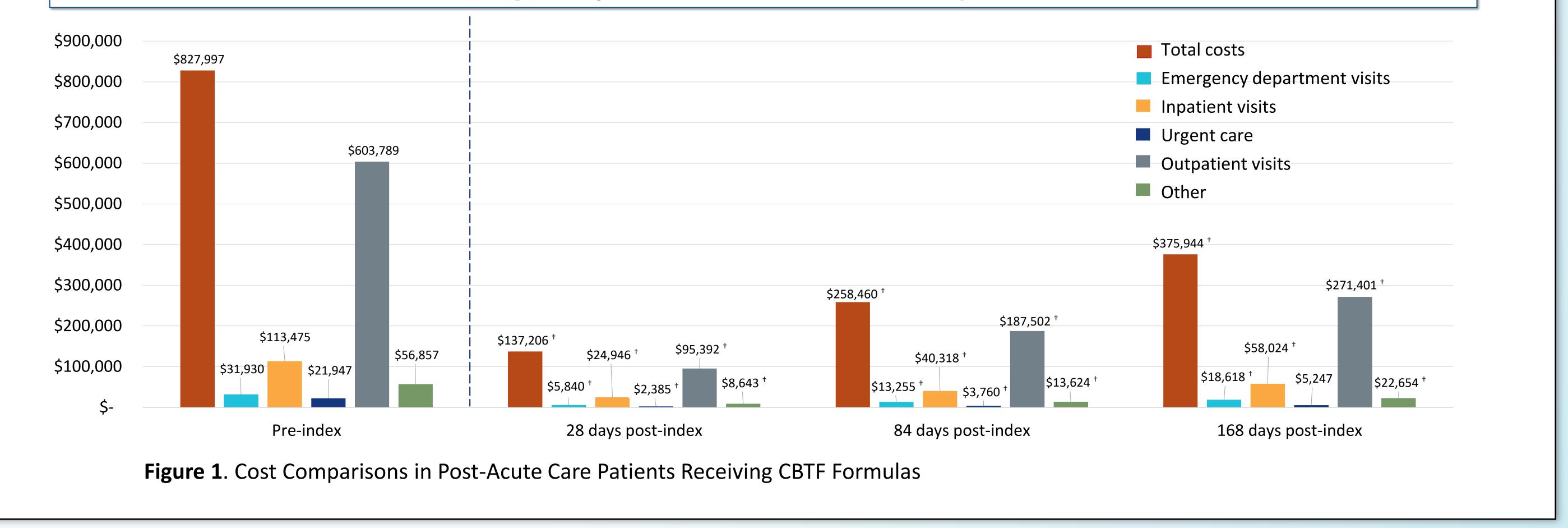
Cost Savings Associated With Commercial Blenderized Tube Feeding Formulas in Post-Acute Care Adult Patients

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Commercial blenderized tube feeding formulas are associated with significant cost savings in post-acute care adult patients.



⁺ t-test (pre-index vs post-index); alpha=0.05 level of significance; CBTF, commercial blenderized tube feeding

BACKGROUND

- Enteral nutrition (EN) is an important, life-sustaining treatment for individuals with functional gastrointestinal (GI) tracts who are unable to consume adequate food orally.¹⁻³
- EN is often initiated in the hospital setting and may continue as part of post-acute care, as indicated and tolerated.⁴
- Healthcare professionals, patients, and caregivers are requesting tube feeding formulas with easily recognized ingredients and more real food.^{1,5}
- Due to its clinical and economic benefits, the use of home enteral nutrition (HEN) as part of post-acute care is increasing in the United

RESULTS

- The study included 124 patients using the CBTF formula in the post-acute setting (52% female; mean [standard deviation (SD)] age at discharge date 41.8 [23.9] years) from across the US (Table 1).
- Pre-index, the most common diagnoses were diseases of the digestive system (89%), nervous system (79%), and respiratory system (76%).
- The most common comorbidities were paraplegia and hemiplegia (39%), chronic pulmonary disease (35%), and cancer (27%) (Table 1).
- States (US).⁶
- Intolerance of enteral formulas can be a challenge in adults receiving HEN and can lead to increased healthcare resource utilization (HCRU) and costs.⁷

OBJECTIVES

 To evaluate adjusted healthcare costs among adult patients receiving Commercial Blenderized Tube Feeding (CBTF) up to 168 days after hospital discharge.

METHODS

- Retrospective observational study using nationally representative US claims data obtained from the Decision Resources Group Real World Evidence Data Repository, which covers 98% of US health plans, including medical and pharmacy claims.
- Inclusion criteria were age ≥14 years and prescription of CBTF (Compleat[®] Organic Blends, Nestlé HealthCare Nutrition, US) as solesource nutrition for at least 7 days in post-acute care.
- Patients treated for any medical condition between 1 January 2018 and

 Mean (SD) CCI score among patients with comorbidities was 3.4 (3.3) (Table 1).

Table 1: Patient Characteristics (N=124)

Mean age, years (SD) ⁺		41.8 (23.9)
Gender, n (%)	Female	64 (52)
Comorbidities, n(%) [‡]	Paraplegia and hemiplegia	48 (39)
	Chronic pulmonary disease	43 (35)
	Cancer	33 (27)
	Metastatic Carcinoma	17 (14)
	Peripheral vascular disease	15 (12)
	Cerebrovascular disease	14 (11)
	Diabetes without complications	14 (11)
Mean CCI Score (SD) ⁺		3.4 (3.3)
Abbreviations: SD, standard deviation, ⁺ Calculated at bosnital discharge, [‡] Assessed during the year prior to bosnital discharge		

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- Use of CBTF formula was well tolerated and associated with statistically significant reductions in GI intolerance and HCRU at post-index periods (data previously reported).⁸
- Results from a multivariate analysis revealed adjusted costs significantly decreased (p<0.05) for emergency department, inpatient, outpatient, and other visits at all post-index periods (Figure 1).
- There were significant reductions in total costs associated with

30 December 2020 were included.

- The index date was defined as the date of hospital discharge. Patient characteristics, concomitant medication use, GI intolerance symptoms, HCRU, and cost of care were recorded within one year before discharge and up to 168 days post-discharge.
- Data were analyzed using descriptive statistics (median, mean, and standard deviations) and the appropriate statistical test (chi-square, ttest, or non- parametric test) at the alpha=0.05 level of significance to compare pre-index and respective post-index outcomes.
- Multivariate costs after adjusting for age, sex and Charlson Comorbidity Index (CCI) score were compared in pre-index (within 1 year before hospital discharge date) and post-index (last record at 28, 84, and 168 days post-discharge) periods.

these visits from \$827,997 in pre-index to \$375,994 at 168-days post-index.

CONCLUSION

- Use of CBTF formula in post-acute care adult patients was associated with significant cost savings.
- The observed reductions in HCRU and costs indicate a potential role of CBTF in reducing economic burden both to patients and the healthcare system.

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Presented at 44th ESPEN CONGRESS, September 3-6, 2022, Vienna, Austria