

Q1 Q2 Increasing Health Care Burden of Chronic Liver Disease Q3 Compared With Other Chronic Diseases, 2004–2013

Q40 Sumeet K. Asrani,¹ Maria Kouznetsova,² Gerald Ogola,² Thomas Taylor,³ Andrew Masica,² Brandon Pope,² James Trotter,¹ Patrick Kamath,⁴ and Fasiha Kanwal⁵

¹Baylor University Medical Center, Baylor Scott and White, Dallas, Texas; ²Center for Clinical Effectiveness, Baylor Scott and White, Dallas, Texas; ³Nicklaus Children's Hospital, Miami, Florida; ⁴Mayo Clinic, Rochester, Minnesota; and ⁵Baylor College of Medicine, Houston, Texas

BACKGROUND & AIMS: Chronic liver disease (CLD) is a common and expensive condition, and studies of CLD-related hospitalizations have underestimated the true burden of disease. We analyzed data from a large, diverse health care system to compare time trends in CLD-related hospitalizations with those in congestive heart failure (CHF) or chronic obstructive pulmonary disease (COPD). **METHODS:** We collected data from a large health care system in Texas on hospitalizations related to CLD (n = 27,783), CHF (n = 60,415), and COPD (n = 34,199) from January 1, 2004 through December 31, 2013. We calculated annual hospitalization rates (per 100,000) and compared hospital course, inpatient mortality, ancillary services, and readmissions. **RESULTS:** Compared with patients with CHF (median age, 71 years) or COPD (median age, 69 years), patients with CLD were significantly younger (median age, 57 years) ($P < .01$ vs CHF and COPD). Higher proportions of patients with CLD were uninsured (11.7% vs 5.4% for CHF and 5.4% for COPD, $P < .01$) and Hispanic (17% for CLD vs 9.3% for CHF and 5.0% for COPD, $P < .01$). A lower proportion of patients with CLD had Medicare (41.5% vs 68.6% with CHF and 70.1% with COPD, $P < .01$). From 2004 through 2013, the rate of CLD-related hospitalization increased by 92% (from 1295/100,000 to 2490/100,000), compared with 6.7% for CHF (from 3843/100,000 to 4103/100,000) and 48.8% for COPD (from 1775/100,000 to 2642/100,000). During this time period, CLD-related hospitalizations covered by Medicare increased from 31.8% to 41.5%, whereas hospitalizations covered by Medicare did not change for CHF (remained at 70%) or COPD (remained at 70%). Patients with CLD had longer hospital stays (7.3 days vs 6.2 days for CHF and 5.9 days for COPD, $P < .01$). A higher proportion of patients with CLD died or were discharged to hospice (14.2% vs 11.5% of patients with CHF and 9.3% of patients with COPD, $P < .01$), and a smaller proportion had access to postacute care (13.2% vs 23.2% of patients with CHF and 27.4% of patients with COPD, $P < .01$). A higher proportion of patients with CLD were readmitted to the hospital within 30 days (25% vs 21.9% of patients with CHF and 20.6% with COPD, $P < .01$). **CONCLUSIONS:** Patients with CLD, compared with selected other chronic diseases, had increasing rates of hospitalization, longer hospital stays, more readmissions, and, despite these adverse outcomes, less access to postacute care. Disease management models for CLD are greatly needed to manage the anticipated increase in hospitalizations for CLD.

Keywords: Cirrhosis; Epidemiology; Temporal; Trend.

The burden of chronic liver disease (CLD) in the United States is underestimated.^{1,2} Despite tremendous advancements in medical management, liver-related mortality has remained relatively unchanged over the last 3 decades, and CLD is currently the 4th leading cause of death among persons aged 45–64 years.² In addition, morbidity attributed to CLD is substantial given the high prevalence of hepatitis C cirrhosis and its complications, suboptimal penetration of treatment for hepatitis C virus (HCV), increasing prevalence of nonalcoholic fatty liver disease, pervasive influence of alcoholic liver disease, and rising incidence of liver cancer.^{3–11}

Similar to other chronic diseases, a large proportion of CLD-related morbidity is reflected in inpatient health care use.^{12–17} There are, however, conflicting data on time trends in morbidity and mortality attributable to CLD. Recent studies are limited by examination of trends in general prevalence of specific diagnoses in selective populations, comparisons across selected liver diseases, or incomplete case ascertainment.^{6,18–21} Furthermore, there are sparse comparisons of CLD burden relative to other chronic diseases such as congestive heart failure (CHF) or chronic obstructive pulmonary disease (COPD)—conditions that may serve as effective comparators given their complex chronic nature (similar to CLD), established inpatient morbidity burden, and relative prioritization in existing quality improvement initiatives.^{13,14,22}

We used data from a large, diverse health care system in the United States to compare time trends in CLD-related hospitalizations with those in other chronic conditions (CHF and COPD). We hypothesized that CLD-related morbidity is higher than the morbidity associated with other common chronic diseases. If true, these data would suggest that parallel efforts are warranted to temper CLD-related morbidity.

Abbreviations used in this paper: BSWH, Baylor Scott & White Health; CHF, congestive heart failure; CLD, chronic liver disease; COPD, chronic obstructive pulmonary disease; CHV, hepatitis C virus; IQR, interquartile range; SHR, standardized hospitalization rate.

© 2018 by the AGA Institute
0016-5085/\$36.00

<https://doi.org/10.1053/j.gastro.2018.05.032>

Download English Version:

<https://daneshyari.com/en/article/8957689>

Download Persian Version:

<https://daneshyari.com/article/8957689>

[Daneshyari.com](https://daneshyari.com)