

Are we following the Guidelines in the treatment of patients with Alcoholic Hepatitis?

Muhammad Moiz Tahir, MD; Hui Chong Lau, MD; Pooja Jotwani, MD; Sruthi Samala, MD; Pushti Khandwala, MD; Aanchal Sawhney, MD; Simranpreet Singh, MD; Sana Siddique, MD; Subha Saeed, MD; Swe Swe Hlaing, MD; Muhammad Tayyeb, MD

Crozer-Chester Medical Center

INTRODUCTION

- Alcoholic liver disease (ALD) is one of the leading causes of chronic liver disease worldwide and accounts for up to 48% of cirrhosis-associated deaths in the United States⁽¹⁾.
- Corticosteroids provide a short-term survival benefit in about half of treated patients with Severe Alcoholic Hepatitis.
- The decision is made based on risk stratification by Maddrey's or Meld scoring system.
- We hope to assess how well we are at identifying and treating the patient population coming to Crozer-Chester Medical Center with diagnosis of Alcoholic Hepatitis

METHODS AND MATERIALS

We did a retrospective review of patients admitted to Crozer-Chester Medical Center from October 2021 to January 2017.

We filtered patients based on ICD-10 codes for Alcoholic Hepatitis.

We included the patient 18 years and above hospitalized at Crozer-Chester Medical Center with the diagnosis of Alcoholic Hepatitis.

We excluded the patients who had following on admission

- Sepsis
- Active Hepatitis B or C
- Acute Kidney Injury
- Upper Gastrointestinal Bleed
- Patients requiring steroids due to some other condition.

We did chart review of patients admitted with Alcoholic Hepatitis and calculated the Maddrey's score of each patient.

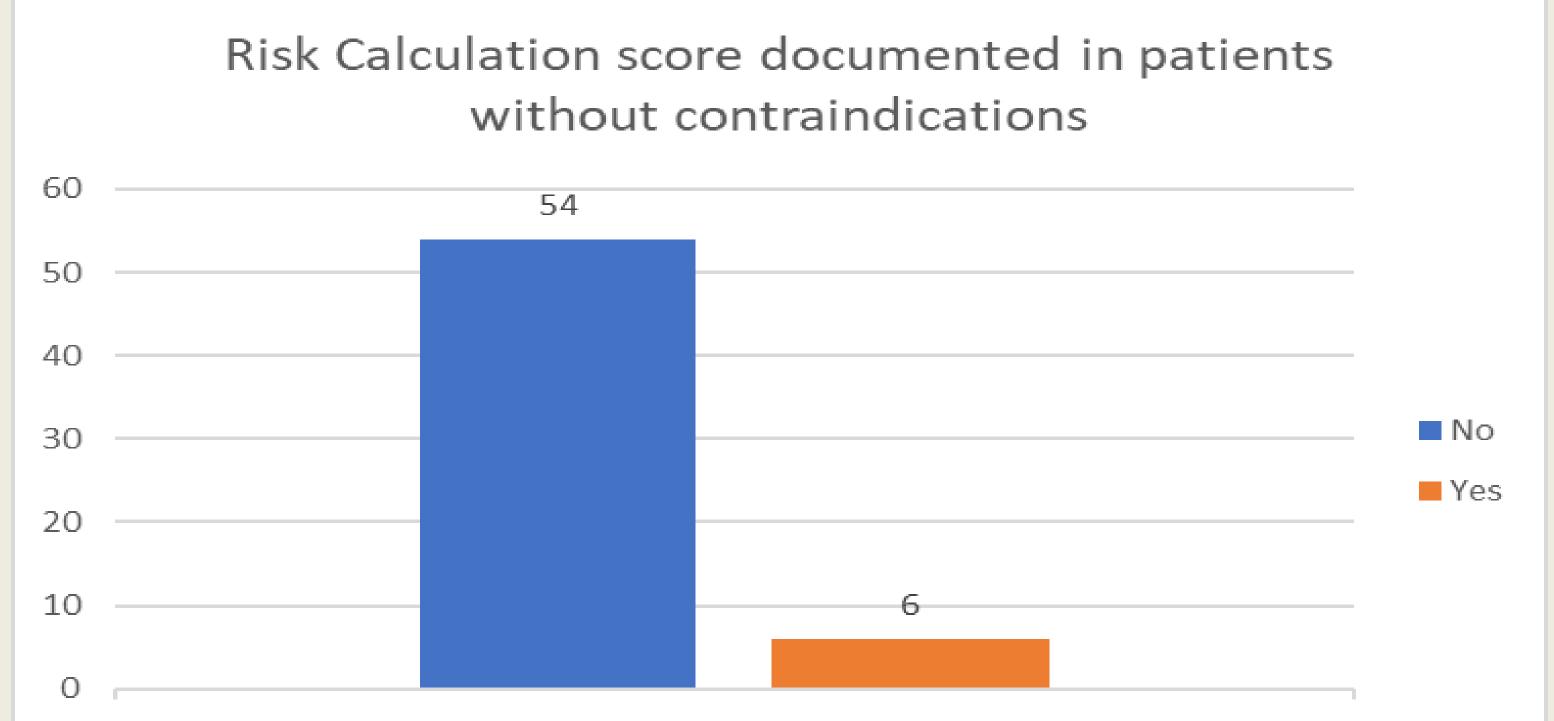
Other data points collected

- Diagnosis of alcoholic hepatitis mentioned on admission?
- Gastroenterology consulted or not?
- Maddrey's score or Meld score documented?
- Patient qualified to get steroid based on score calculated by team members?
- If patient got steroid?
- Which type of steroid given to the patient?

RESULTS

- We had a sample size of 60 patients who did not have any contraindications to steroid use. 90% (N=54) of those patients had no risk calculation score documented.
- There was no statistically significant difference between the teaching and non-teaching service regarding risk score documentation (p=0.43).
- We identified 20 patients from the sample who would have benefited from administration of steroids. Out of those, only 47% (N=8) received steroids. Out of those, only 3 (18%) received prednisolone.

Steroids given to patients with high Maddrey's or Meld score 9,53% 8,47% 9,53% 9,53% **We Predictions **Yes Predicions **Yes Predictions **Yes Predictions **Yes Predictions *



DISCUSSION

Currently, the American College of Gastroenterology guidelines recommend using steroids in the high-risk patient population⁽²⁾.

Various risks calculating criteria like Maddrey's Discriminant Function and MELD score have been developed to determine patients who fulfill the criteria for severe disease and can benefit from a course of steroids⁽³⁾.

Various strategies can be implemented to improve adherence to guidelines

- The risk score based on scoring system should be documented when admitting patients with Alcoholic Hepatitis.
- Changes in the electronic medical records can be considered as displaying a popup reminder to calculate the appropriate risk score, to consult a specialist, or to automatically calculate risk score by the system on admission as it would be beneficial in maintaining adherence to guidelines.

CONCLUSIONS

- We are not documenting risk scoring scores in 90% of the patients who could be potential candidates for steroid therapy.
- We are missing 53% of the patients who would benefit from them.

REFERENCES

- 1. Yoon, Y. H., & Chen, C. M. (2016). Surveillance Report# 105: Liver cirrhosis mortality in the United States: National, state, and regional trends, 2000–2013. National Institute on Alcohol Abuse and Alcoholism (NIAAA), Bethesda, MD.
- 2. Singal, A. K., Bataller, R., Ahn, J., Kamath, P. S., & Shah, V. H. (2018). ACG clinical guideline: alcoholic liver disease. The American journal of gastroenterology, 113(2), 175.
- 3. Monsanto, P., Almeida, N., Lrias, C., Pina, J. E., & Sofia, C. (2013). Evaluation of MELD score and Maddrey discriminant function for mortality prediction in patients with alcoholic hepatitis. Hepato-gastroenterology, 60(125), 1089-1094.

CONTACT

Muhammad Moiz Tahir Crozer-Chester Medical Center Email: moiztahirmd@gmail.com Phone: 346-932-3668