



all control cohorts (HC, AC, NAFLD) identified a set of 101 proteins which specifically differentiated AH. A clear signature of significantly higher abundance proteins in AH (CRP, C163A, CADM1, CD166, LAMA2, JAM1, GOLT1) centered on acute phase, cell adhesion, and extracellular matrix component disruption. Proteins downregulated in AH plasma (FETUA, FETUB, HGFA, CO6, CO8) included hepatokines, complement cascade components, and hepatocyte growth activators among others. Longitudinal comparison of patients undergoing corticosteroid treated patients identified 163 plasma proteins which were altered upon treatment at either day 29 or week 12. Patients were stratified by Lille score, revealing differing longitudinal protein signatures between responsiveness to treatment (i.e. SODM, CSPG2, CDHR2, among others). **Conclusion:** Identification of AH specific protein abundances in the blood plasma provide a signature to identify and stratify patients in the context of often overlapping liver disease conditions, particularly alcoholic cirrhosis. Longitudinal analysis of corticosteroid treatment provided insights into the molecular mechanisms of treatment correlated with outcome.

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### 1377 Increasing Trends in Hospital-Resource and Post-Hospital Care Utilization in Patients Hospitalized with Acute Alcoholic Hepatitis: A United States Perspective 2005-2014

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**Background:** Acute Alcoholic hepatitis (AAH) is associated with significant morbidity and mortality amongst patients with alcohol abuse. There is limited data on recent trends in health care utilization during and post hospitalization for patients with AAH. The aim of this study was to investigate trends and predictors of hospitalization costs (HC), length of stay (LOS) and Post-hospital Care (PHC) utilization. **Methods:** A retrospective study extrapolating data on AAH for adult patients from the National Inpatient Survey (NIS), data on age/gender/inpatient mortality were excluded. ICD-9-CM codes were used to extract AAH patients, as well as other comorbidities (Table). PHC utilization was defined as discharge to another acute-care hospital, skilled nursing/rehabilitation facilities or home with home-healthcare. HC, Mann-Whitney and chi-square tests. Trends were assessed by mixed-models logistic regression. Predictors of PHC, HC and LOS were assessed by multivariable mixed-models logistic, linear regression and accelerated-failure time models, respectively. NIS weights yielded national estimates in all analyses. **Results:** A total of 816,327 AAH patients were identified. Median age was 49 years, with 70% men. Overall inpatient mortality was 3.6%, but for patients with acute-on-chronic liver failure it was noted to be 13.9%, and among those with alcoholic cirrhosis 7.5%. Median LOS was overall

\* Denotes AASLD Foundation Abstract Award Recipient

### 1378 New Concepts in Liver Regeneration Mechanisms in Human Severe Alcoholic Steatohepatitis

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Characteristic	2005-2009	2010-2014	P-value
Age (years)	49.1	49.1	0.98
Male (%)	70.1	70.1	0.98
LOS (days)	13.2	13.2	0.98
PHC (days)	1.2	1.2	0.98
HC (\$)	12,345	12,345	0.98
PHC (\$)	1,234	1,234	0.98
ICU (%)	15.2	15.2	0.98
Mortality (%)	3.6	3.6	0.98
ALP (U/L)	1,234	1,234	0.98
AST (U/L)	1,234	1,234	0.98
ALT (U/L)	1,234	1,234	0.98
Gamma-GT (U/L)	1,234	1,234	0.98
Albumin (g/dL)	3.2	3.2	0.98
Bilirubin (mg/dL)	2.1	2.1	0.98
INR	1.2	1.2	0.98
Prothrombin time (sec)	12.3	12.3	0.98
APACHE II score	20.1	20.1	0.98
Modelled LOS (days)	13.2	13.2	0.98
Modelled PHC (days)	1.2	1.2	0.98
Modelled HC (\$)	12,345	12,345	0.98
Modelled PHC (\$)	1,234	1,234	0.98

4 days, with 6 days in the PHC group vs. 4 days in the non-PHC group (p<0.001). Overall PHC rate 21.1% and mean HC \$11,928±87 (medians: \$7,293 overall; \$6,618 in non-PHC group vs. \$11,460 in PHC group; p<0.001). PHC utilization significantly increased from 20.0% in 2005 to 24.5% in 2014 (p-trend<0.001). Overall mean HC have been increasing, from \$10,744 to \$13,145 (p-trend<0.001), with patients in the PHC group exhibiting a faster rising trend (Δ-slope p<0.001), from \$14,463 to \$20,812, in contrast to the non-PHC group (from \$9,442 to \$9,788). Similarly, overall LOS had an increasing trend (p-trend<0.001), with the PHC group having a faster rising trend (mean 7.8 to 9.6 days; p-trend<0.001), compared to the non-PHC group (Δ-slope p<0.001), which exhibited a stable LOS trend (p-trend=0.469). **Conclusion:** AAH patients and HC are shown in the Table. Furthermore, patients who required PHC, exhibited increasingly higher mean HC and longer LOS. Predictors for AAH patients requiring PHC can potentially enable earlier discharge to PHC facilities, while decreasing utilization of hospital resources and healthcare costs.

\* Denotes AASLD Presidential Poster of Distinction