32 studies described tumors with a specified primary, with gastric cancer being the most common. (IDDF2021-ABS-0116 Figure 1) Pooled data showed that the 3- and 5-year OS were 45% (95% CI 0.40-0.50) and 35% (95% CI 0.31-0.19), respectively (IDDF2021-ABS-0116 Figure 2, IDDF2021-ABS-0116 Figure 3). The 3- and 5-year DFS were 33% (95% CI 0.29-0.37) and 27% (95% CI 0.23-0.32), respectively (IDDF2021-ABS-0116 Figure 4, IDDF2021-ABS-0116 Figure 5). The postoperative morbidity rate was 24% (95% CI 0.20-0.29), whereas the 30-day mortality was 2% (95% CI 0.01-0.03). Gastric cancer with liver metastasis had 3-year and 5-year OS of 39% (95% CI 0.32-0.46) and 25% (95% CI 0.20-0.31).

Conclusions Hepatectomy for NCNNLM may achieve favourable survival outcomes, with low surgical morbidities and mortalities in selected patients.

**FACTORS ASSOCIATED WITH THE PRESENCE OF NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD) DETECTED IN JAPANESE ADULTS UNDERGOING HEALTH CHECK-UPS**

Toh Yoon Ezekiel Wong, Hiroshima Kyoritsu Hospital, Japan

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**Background** Non-alcoholic fatty liver disease (NAFLD) and steatohepatitis (NASH) is a growing cause of cirrhosis and hepatocellular carcinoma (HCC) in Japan. We examined the prevalence of NAFLD in a Japanese cohort undergoing health check-ups and factors associated with its presence.

**Methods** This cross-sectional study included 130 non-drinking adults who participated in health check-ups with abdominal ultrasonography option during a 3 month period. Age, gender, BMI, waist circumference, ALT, γ-GTP, triglyceride (TG), HDL and HbA1c levels were analysed as variables possibly associated with the presence of NAFLD.

**Abstract IDDF2021-ABS-0118 Table 1**

<table>
<thead>
<tr>
<th>Variables/Biomarkers</th>
<th>Adjusted odds Ratio (95% CI)</th>
<th>P value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (years)</td>
<td>0.98 (0.93 to 1.03)</td>
<td>0.39</td>
</tr>
<tr>
<td>Gender (male vs. female)</td>
<td>0.85 (0.32 to 2.25)</td>
<td>0.75</td>
</tr>
<tr>
<td>BMI (kg/m²)</td>
<td>1.38 (1.17 to 1.64)</td>
<td>0.0001</td>
</tr>
<tr>
<td>Triglyceride (mg/dL)</td>
<td>1.01 (1.00 to 1.01)</td>
<td>0.07</td>
</tr>
<tr>
<td>HbA1c (%)</td>
<td>1.71 (0.97 to 3.01)</td>
<td>0.06</td>
</tr>
</tbody>
</table>
Results Mean age was 75.3 (SD: 8.4) years old. 97 participants (75%) were female. Mean BMI was 22.9 kg/m² (SD: 2.7, range: 17.8 to 30.9) which strongly correlated with waistline circumference (r² 0.65, p<0.0001) as shown in figure 1 (IDDF2021-ABS-0118 Figure 1). 40 participants (31%) had NAFLD detected by abdominal ultrasonography. 35 (27%) mild and 5 (4%) moderate to severe. Individuals with NAFLD had significantly higher BMI, waist circumference, ALT, y-GTR, TG and HbA1c levels compared to those without NAFLD. HDL levels were also significantly lower in NAFLD individuals. After adjusting for age, gender, TG and HbA1c levels, a higher BMI was significantly associated with the presence of NAFLD (adjusted OR 1.38, 95%CI: 1.17 to 1.64).

Conclusions NAFLD was present in about 31% of non-drinking adults in this cohort, although most were classified as mild. As expected, a higher BMI was independently associated with the presence of NAFLD.

IDDF2021-ABS-0141 PREDICTION OF MORTALITY AMONG ACUTE-ON-CHRONIC LIVER FAILURE PATIENTS USING ARTIFICIAL NEURAL NETWORK ANALYSIS

1Balaji Musunuri*, 1Shiran Shetty, 2Dasharathraj K Shetty. 1Department of Gastroenterology, Kasturba Medical College, Manipal, Manipal Academy of Higher Education, Karnataka, India; 2Department of Humanities and Management, Manipal Institute of Technology, Manipal Academy of Higher Education, Karnataka, India

Background Despite the advances in understanding the pathophysiology and management of Acute-on-Chronic liver failure (ACLF), short-term mortality remains high. Though there have been numerous scoring systems to predict mortality, they lack predictive accuracy. We intend to study the accuracy of artificial neural network (ANN) analysis in predicting short mortality among such patients.

Methods Patients who were diagnosed as ACLF according to APASL criteria were included. Retrospective data of ACLF patients were collected, including the presence of decompensating events including ascites, encephalopathy, Gastrointestinal (GI) bleed, acute kidney injury (AKI) and infections. Basic blood investigations were recorded, including various prognostic scoring systems like CTP, MELD, CLIF-SOFA and AARC scores. A multi-layered perceptron ANN model with hidden nodes to make a prediction was constructed from 27 clinical and laboratory variables. The ANN was trained and validated internally using an adaptive moment estimation optimization algorithm. The primary endpoints were 30-day mortality.

Results One hundred patients were included with mean age of 46.04 ± 11.28 yrs. 88.4% were male. Most common acute precipitant of ACLF was alcohol followed by infections among 59.82% and 25% of patients respectively. DILI as acute cause was seen in 16.07%, while 7.1% had unknown cause. Commonest etiology of CLD was alcohol followed by viral among 77.27% and 7.95% of patients. 73.2% had overt HE. GI Bleed, AKI and infections were noted in 19.6%, 46.4% and 32.1% respectively. Mortality at the end of 30-days was 36.6%. Presence of AKI and GI bleed were significantly associated with mortality (p<0.05). Baseline CLIF, AARC, CTP, MELD had area under ROC of 0.704, 0.767, 0.652 and 0.739 respectively in predicting 30-day mortality, while ANN had AUROC OF 0.915, having predictive accuracy of 94% outperforming the other prognostic scores.

Conclusions The artificial neural network had better accuracy in predicting short-term mortality among patients with ACLF. It has clinical utility in the management of ACLF, requiring further studies to validate its role.

IDDF2021-ABS-0143 GLOBAL EPIDEMIOLOGICAL TRENDS OF FUNGAL INFECTIONS IN CIRRHOSIS PATIENTS: A SYSTEMATIC REVIEW WITH META-ANALYSIS (FUNGDEMIC)

Nipun Verma*, Shreya Singh, Manvi Singh, Anil Chauhan, Pranita Pradhan, Nishant Jaiswal, Arunakolee Chakrabarti, Meenu Singh. Postgraduate Institute of Medical Education and Research, Chandigarh, India

Background Fungal infections (FIs) have serious implications, yet are poorly reported in cirrhosis patients. Therefore, we reviewed the global burden and trends of FIs among cirrhosis patients.

Methods PubMed, Ovid, Web of Science, and EMBASE were searched and full-text articles describing FIs and their prevalence among cirrhosis patients were reviewed. Studies from post-transplant, malignancy, and classical-immuno-deficiency patients were excluded. A random-effects meta-analysis was done to pool estimates of FIs (overall, and by mycological