Comparing both groups, the following results were obtained:

		Cirrhosis ET	Cirrhosis MAFLD	p
Average age (years)		55,87	58,91	0,750
Sex (%)	M	84,4	56,5	0,005
	F	15,6	43,5	0,005
Source (%)	Urban	61	65,2	0,717
	Rural	37,7	34,8	0,802
Average MELD (points)		14,99	12,83	0,143
Child-Pugh (%)	Α	24,7	39,1	0,175
	В	40,3	52,2	0,311
	C	32,5	8,7	0,024
Arterial hypertension (%)		19,5	87	0,000
Obesity (%)		2,6	47,8	0,000
Type 2 diabetes (%)		18,2	82,6	0,000
Portal hypertension (%)		90,9	95,7	0,462
Hepatocellular carcinoma (%)		3,9	8,7	0,354
Survival (months)		19,7	23,9	0,449

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P- 103 PREVALENCE OF SARCOPENIA IN CIRRHOTIC PATIENTS IN AN OUTPATIENT SERVICE IN BRAZIL

Carolina Pretti Tumang de Andrade¹, Lara Ferrari Dalcumune¹, Nubia Mesquita Fiorese¹, Livia Zardo Trindade^{1,2}, Felipe Bertollo Ferreira^{1,2}, Mariana Poltronieri Pacheco^{1,2}

Introduction and Objectives: Sarcopenia is defined by progressive and generalized loss of muscle mass and strength, a phenomenon observed in many patients affected by chronic illnesses. It reflects proteic-energetic malnutrition due to a metabolic imbalance, and it is associated with worse prognostics and higher mortality rates in post-hepatic transplant patients. This study aimed to assess the epidemiological distribution of sarcopenia and its association with liver function and complications of hepatic disease in cirrhotic patients in an outpatient service in Santa Casa de Misericórdia de Vitória Hospital -ES.

Materials and Methods: Transversal, epidemiologic and unicentric study. We applied a questionnaire and measured hand grip strength using a dynamometer, taking three measures of hand grip maximum strength for 3 seconds each.

Results: The study included 64 cirrhotic patients, with a mean age of 58 years and alcohol as the most present etiology. Sarcopenia was defined as present according to two different cut-off values: using cut-off value 1, sarcopenia was identified in 33 patients (51,6%); by cut-off value 2, 23 (35,9%) were sarcopenic. The study showed a significant association between the female sex and sarcopenia in both cut-off values. Furthermore, there was a relevant increase in sarcopenia by cut-off value 2 in patients with Model for End-Stage Liver Disease (MELD) scores greater or equal to 15. There was no association of sarcopenia with the event of ascites and/or hepatic encephalopathy.

Conclusions: Within the data obtained, there was a variation of sarcopenia of 35-52% regarding hand grip values, which was associated with elevated MELD scores, demonstrating a possible connection between sarcopenia and worse outcomes. Therefore, the presence of sarcopenia in cirrhotic patients might be related to prognostic factors and should be assessed in the clinical management of these patients.

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P- 104 EXPERIENCE AND CARDIOVASCULAR OUTCOMES IN POST-LIVER TRANSPLANT PATIENTS AT A REFERENCE TRANSPLANT CENTER IN COLOMBIA

Carlos Martinez¹, Catalina Gutierrez², Daniel Rojas³, Sandra Saummet⁴, Camila Galindo⁵, Rafael Conde⁶, Adriana Varon⁷

¹ Internal Medicine Resident, University of Rosario, Gastroenterology Service, La Cardiovascular Center, Bogotá, Colombia

² Internal Medicine Resident, University of Rosario, Gastroenterology Service, La Cardio, Bogota, Colombia ³ Internist, University of Rosario, Fellow in Gastroenterology, University of Rosario, Gastroenterology Service, La Cardio. Bogotá, Colombia ⁴ Undergraduate Student, University of Rosario, Gastroenterology Service, La Cardio Bogota, Colombia ⁵ Undergraduate Student, University of Rosario,

Gastroenterology Service, La Cardio Bogota, Colombia.

⁶ Pneumologist, Colombian Pneumological Foundation, Pneumology and Pulmonary Hypertension Service.
Bogotá, Colombia

⁷ Gastroenterologist, University of Rosario, Gastroenterology and Liver Transplant Service, La Cardiovascular Hospital, Gastroenterology and Pulmonary Hypertension Service. Bogota, Colombia

Introduction and Objectives: Liver transplant patients require a vast and complex evaluation prior to transplant surgery. Hemodynamic evaluation by Doppler echocardiography is important in the identification of systolic/diastolic alterations as a predictor of post-liver transplant outcomes, from cardiovascular alterations to graft dysfunction and mortality. This study aimed to describe the relationship between the hemodynamic variables evaluated by Doppler echocardiography and post-transplant liver outcomes in patients diagnosed with cirrhosis at LaCardio hospital. We describe the demographic variables of our cohort and outcomes such as mortality, acute kidney injury, need for dialysis and hospital admission for acute heart failure in the post-transplant period up to one year of follow-up.

Materials and Methods: Retrospective cohort study. Patient with liver transplant at LaCardio hospital, in Bogotá, Colombia, between January 2005 and July 2021. Analysis of sociodemographic variables, comorbidities, echocardiography and intraoperative variables, with primary outcomes such as early graft dysfunction, acute kidney injury and intraoperative mortality. A classification and regression tree (CART) was performed.

Results: 397 patients were analyzed, with 54.4% men. The median of age was 56 years and the most common etiology of cirrhosis was alcoholic. The most common comorbidities were hypertension (54%) and type 2 diabetes mellitus (24%). In 71% of patients, there was some degree of diastolic dysfunction and left ventricular hypertrophy (30.9%). The presence of graft dysfunction was present in up to 8% of patients and was associated with acute kidney injury (AKI) in 21%, requirement of multiple transfusions during surgery and renal replacement therapy with a mortality of 15% during study follow-up. In the CART model for mortality and graft dysfunction outcomes, it was related to the presence of BMI<19 or the combination of BMI between 19 and <24 with dialysis.

Conclusions: Echocardiographic variables, the presence of sarcopenia and the presence of AKI or requirement of renal replacement therapy were related to mortality and graft dysfunction outcomes.

¹ School of Sciences of Santa Casa de Misericórdia de Vitória, Vitória, Brazil

² Gastroenterology and Hepatology Department, Santa Casa de Misericórdia de Vitória Hospital, Vitória, Brazil

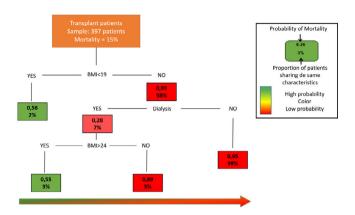


Figure 1: Distribution of liver transplant patients and mortality during the observational period (Up to 1 year). We classified the risk groups by a regression tree. This method provides a predictive model of three profiles of risk: a body mass index (BMI) less than 19 and a BMI less than 24 with or without the requirement of dialysis. https://doi.org/10.1016/j.aohep.2023.100989

P- 105 DETECTION OF HEPATITIS D VIRUS IN PATIENTS WITH CHRONIC HEPATITIS B FROM SOUTH AMERICA.

María Belén Pisano¹, Viviana E. Ré¹, Enrique Carrera², Domingo Balderramo³, Jhon Prieto⁴, Javier Díaz-Ferrer⁵, Marco Arrese⁶, Angelo Z. Mattos⁷, José D. Debes^{8,9}, Andre Boonstra⁹

- ¹ Institute of Virology "Dr. J. M. Vanella", Faculty of Medical Sciences, National University of Córdoba, Córdoba, Argentina
- ² Department of Gastroenterology and Hepatology, Eugenio Espejo Hospital, Quito, Ecuador
- ³ University Private Hospital of Córdoba. University Institute of Biomedical Sciences of Córdoba, Córdoba, Argentina
- ⁴ Cehyd, Bogotá, Colombia
- ⁵ San Martín de Porres University, Lima, Perú
- ⁶ Catholic University of Chile, Santiago de Chile, Chile
- ⁷ Federal University of Medical Sciences of Porto Alegre, Porto Alegre, Brazil
- ⁸ University of Minnesota, Minneapolis, USA
- ⁹ Erasmus University Hospital Rotterdam, Rotterdam, The Netherlands

Introduction and Objectives: Worldwide, there is incomplete information about the epidemiology of hepatitis D virus (HDV), a hepatotropic satellite pathogen with an RNA genome, which requires the hepatitis B virus (HBV) as a collaborating agent for its transmission and spread. HDV genotypes have a defined geographical distribution. Very few studies have been carried out in South America. This study aimed to study the circulation of HDV in subjects with chronic HBV from South America.

Materials and Methods: We studied 38 samples obtained between 2019 and 2021 from individuals chronically infected with HBV by assessing the ESCALON network (a cross-sectional and prospective study addressing hepatobiliary disease in South America). Samples were from Argentina (n=12), Peru (n=11), Colombia (n=4), Ecuador (n=4), Chile (n=4), and Brazil (n=3). Total anti-HDV antibody detection was performed using the Liaison XL Murex anti-HDV kit (DiaSorin). Positive samples were subjected to viral RNA detection by RT-PCR, and genotyped by Sanger sequencing.

Results: Median age was 59 years old (IQR 48.5-67.3); 75% of the individuals were males and 25% were females. Three samples were positive for anti-HDV antibody detection (8%). Two of them, from Colombia and Chile, belonged to individuals with cirrhosis, while the third one, from Ecuador, originated from an individual with hepatocellular carcinoma (HCC). This sample could be amplified by RT-PCR, corresponding to a 44 years-old male. The sequencing showed HDV genotype 3.

Conclusions: The results show circulation of HDV in South America, with a prevalence close to that estimated by the WHO (5%). The detections were performed in patients with severe liver disease, likely secondary to the presence of the two viral agents (HDV+HBV). Although our cohort is small, its strength lies in the geographical amplitude of the samples (6 countries). The study remains active and is expected to substantially increase the sample size over the coming year.

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P- 107 EPIDEMIOLOGY, CLINICAL AND TISSUE CHARACTERISTICS OF A LARGE COHORT OF NAFLD/ NASH FROM SOUTH AMERICA

Jhon Prieto Ortiz¹, Joseph Akambase², Angelo Mattos³, Enrique Carrera Estupinan⁴, Javier Diaz Ferrer⁵, Andre Curia⁶, Patricia Gallardo⁷, Esteban Gonzalez Ballerga⁶, Domingo Balderramo⁸, Jose Debes⁹

¹ Liver and Digestive Disease Center (CEHYD), Bogotá, Colombia

² Division of Epidemiology, School of Public Health, University of Minnesota, Minneapolis, MN, USA

³ Department of Gastroenterology, Federal University of Health Sciences of Porto Alegre, Porto Alegre, Brazil ⁴ Gastroenterology Service, Hospital de Especialidades Eugenio Espejo, Quito, Ecuador

⁵ Department of Gastroenterology, Hospital Nacional Edgardo Rebagliati Martins, Lima Peru

⁶ Department of Gastroenterology, Clinics Hospital José de San Martín, Buenos Aires, Argentina

⁷ Department of Gastroenterology, Fundación Sayani, Jujuy, Argentina

⁸ University Private Hospital of Córdoba / University Institute of Biomedical Sciences of Córdoba, Córdoba, Argentina

⁹ Department of Medicine, University of Minnesota. Minnesota, USA

Introduction and Objectives: Some of the highest rates of non-alcoholic fatty liver disease (NAFLD) in the world are present in the South American continent. Indeed, recent reports suggest that NAFLD is becoming a common cause of hepatocellular carcinoma in the continent. Nonetheless, little is known about the epidemiology and tissue finings of NAFLD in the region. We provide an extensive assessment of the inter-relation of NAFLD with metabolic variables as well as medication intake and biopsy findings in South America.

Materials and Methods: A retrospective chart review of patients with NAFLD from 5 countries in Latin America (Argentina, Brazil, Peru, Ecuador and Colombia) via the South American Liver Research Network (SALRN). Diagnosis of NAFLD was obtained via imaging reports and biopsies. Logistic regression models were used to examine associations between clinical and tissue characteristics with individual patient features. Each center was responsible for its own ethics approval.