

PERSONAL INFORMATION

Juan-Carlos Garcia-Pagan

WORK EXPERIENCE

January 1994–December 1997

Specialist

Specialist in Hepatology (Spain)

January 1998–December 2002

Senior Specialist

Senior Specialist in Hepatology (Spain)

January 2003–December 2008

Consultant

Consultant in Hepatology (Spain)

January 2009–November 2012

Senior Consultant

Senior Consultant in Hepatology (Spain)

December 2012–Present

Head of the Hepatic Hemodynamic Laboratory

Head of the Hepatic Hemodynamic Laboratory (Spain)

September 2017–Present

Head of group CIBERehd CB06/04/0026

CIBERehd (Spain)

Group characterized by its clinical, translational and experimental research aimed at advancing knowledge of the pathophysiology of portal hypertension, which represents the main complication of chronic liver diseases and the discovery of new therapeutic targets, as well as the introduction of new treatments for this syndrome and developing new non-invasive techniques for its clinical evaluation. The group is active in the fields of vascular liver diseases, abnormalities of angiogenesis in liver disease and in the preservation of organs.

EDUCATION AND TRAINING

September 1978–June 1983

Medicine Career

Medical School University of Barcelona. (Spain)

January 1983–December 1983

Degree of Bachelor of Medicine and Surgery

(Spain)

Rated Outstanding

January 1988–December 1988

Board Certified Gastroenterology, Spanish, Ministry of Education and Science

(Spain)

January 1990–December 1990

Doctoral Thesis in Medicine and Surgery, Doctoral Prize

(Spain)

Rated "Cum Laude" UNANIMOUSLY

January 1996–June 1997

Associate visiting professor at Department of Biology.

University of North Carolina. Charlotte. USA (United States)

ADDITIONAL INFORMATION

Expertise

- Portal Hypertension
- Liver Cirrhosis
- Vascular Disorders of the liver. Portal vein thrombosis. Budd-Chiari syndrome
- Variceal Bleeding
- Hepatic Hemodynamics
- Transjugular Liver Biopsy
- Transjugular Intrahepatic Portosystemic Shunt

Publications

ORIGINAL PUBLICATIONS

1. Bosch J, Bordas JM, Mastai R, Kravetz D, Navasa M, Chesta J, Pizcueta MP, García Pagán JC, Rodés J. Effects of Vasopressin on the Intravariceal Pressure in Patients with Cirrhosis. Comparison with the Effects on Portal Pressure. *Hepatology*. 1988; 8: 861 865.
2. Bosch J, Groszmann RJ, García Pagán JC, Terés J, García Tsao G, Navasa M, Mas A, Rodés J. Association of Transdermal Nitroglycerin to Vasopressin Infusion in the Treatment of Variceal Hemorrhage. A placebo controlled clinical trial. *Hepatology*. 1989; 10: 962 968.
3. García Pagán JC, Navasa M, Bosch J, Bru C, Pizcueta P, Rodés J. Enhancement of Portal Pressure Reduction by the Association of Isosorbide 5 Mononitrate to Propranolol Administration in Cirrhosis. *Hepatology*. 1990; 11: 230 238.
4. Agusti AGN, Roca J, Bosch J, García Pagán JC, Wagner PD, Rodríguez Roisin R. Effects of Propranolol on Arterial Oxygenation and O₂ Transport to Tissues in Patients with Cirrhosis. *Am Rev Respir Dis*. 1990; 142: 306 310.
5. García Pagán JC, Feu F, Ruiz del Arbol L, Navasa M, Bosch J, Rodés J. Long Term Hemodynamic Effects Of Isosorbide 5 Mononitrate In Patients With Cirrhosis And Portal Hypertension. *J Hepatol*. 1990; 11: 189 195.
6. Ruiz del Arbol L, García Pagán JC, Feu F, Pizcueta Mp, Bosch J, Rodés J. Effects Of Molsidomine, A Long Acting Venous Dilator, On Portal Hypertension. A Hemodynamic Study In Patients With Cirrhosis. *J Hepatol*. 1991; 13:179 186.
7. Feu F, Bordas JM, García Pagán JC, Bosch J, Rodés J. Double Blind Investigation Of The Effects Of Propranolol And Placebo On The Pressure Of The Esophageal Varices In Patients With Portal Hypertension. *Hepatology*. 1991; 13: 917 922.
8. García Pagán JC, Feu F, Bosch J, Rodés J. Propranolol compared with propranolol plus isosorbide 5 mononitrate for portal hypertension in cirrhosis. A randomized controlled study. *Ann Inter Med*. 1991; 114: 869 873.
9. Pizcueta MP, García-Pagán JC, Fernández M, Casamitjana R, Bosch J, Rodés J. Glucagon hinders the effects of somatostatin on portal hypertension. A study in rats with partial portal vein ligation. *Gastroenterology*. 1991; 101: 1710-1715.
10. Conn HO, Grace ND, Bosch J, Groszmann RJ, Rodés J, Wright SC, Matloff DS, García Tsao G, Fisher RL, Navasa M, Drewniak SJ, Atterbury CE, Bordas JM, Lerner E, Bramante C and members of the Boston New Haven Barcelona Portal Hypertension Study Group (García-Pagán JC). Propranolol In The Prevention Of The First Hemorrhage From Esophagogastric Varices: A Multicenter Randomized Clinical Trial (RCT). *Hepatology*. 1991, 13: 902 912.
11. García Pagán JC, Navasa M, Rivera F, Bosch J, Rodés J. Lymphocyte β 2 Adrenoceptors And Plasma Catecholamines In Patients With Cirrhosis. Relationship with the Hemodynamic Response to Propranolol. *Gastroenterology*. 1992; 102: 2015 23.
12. Navasa M, García-Pagán JC, Bosch J, Riera JR, Bañares R, Mas A, Bruguera M, Rodés J. Portal Hypertension In Acute Liver Failure. *Gut* 1992; 33:965 968.
13. Lacy AM, Navasa M, Gilibert R, Bru C, García Pagán JC, García Valdecasas JC, Grande L, Feu F, Fuster J, Terés J, Visa J, Bosch J. Long Term Effects Of Distal Splenorenal Shunt On Hepatic Hemodynamics And Liver Function In Patients With Cirrhosis: Importance Of Reversal Of Portal Blood Flow. *Hepatology* 1992; 15: 616 622.
14. La Villa G, Salmerón JM, Arroyo V, Bosch J, Ginés P, García Pagán JC, Ginés A, Asbert M,

- Jimenez W, Rivera F, Rodés J. Mineralocorticoid Escape In Patients With Compensated Cirrhosis And Portal Hypertension. *Gastroenterology* 1992; 102: 2114-2119.
15. Panés J, Bordas J.M, Piqué J.M, Bosch J, García Pagán JC, Feu F, Casadevall M, Terés J, Rodés J. Increased Gastric Mucosal Perfusion in Cirrhotic Patients with Portal Hypertensive Gastropathy. *Gastroenterology* 1992; 103: 1875-1882.
16. Navasa M, Feu F, García Pagán JC, Jiménez W, Llach J, Rimola A, Bosch J, Rodés J. Hemodynamic And Humoral Changes After Liver Transplantation In Patients With Cirrhosis. *Hepatology* 1993; 17: 355-360.
17. Pujol A, Pujol J, Graus F, Rimola A, Peri J, Mercader JM, García-Pagán JC, Bosch J, Rodés J, Tolosa E. Hyperintense Globus Pallidus On T1-Weighted MRI In Cirrhotic Patients Is Associated With Severity Of Liver Failure. *Neurology* 1993; 43: 65-69.
18. Carreras E, Grañena A, Navasa M, Bruguera M, Marco V, Sierra J, Tassies MD, García-Pagán JC, Martí JM, Bosch J, Rodés J, Rozman C. Transjugular Liver Biopsy In BMT. *Bone Marrow Transplant* 1993; 11: 21-26.
19. Carreras E, Grañena A, Navasa M, Bruguera M, Marco V, Sierra J, Tassies MD, García-Pagán JC, Martí JM, Bosch J, Rodés J, Rozman C. On The Reliability of Clinical Criteria for the Diagnosis of Hepatic Venous Occlusive Disease. *Ann Hematol* 1993; 66: 77-80.
20. Luca A, Cirera I, García-Pagán JC, Feu F, Pizcueta P, Bosch J, Rodés J. Hemodynamic Effects Of Acute Changes In Intra-Abdominal Pressure In Patients With Cirrhosis. *Gastroenterology* 1993; 104: 222-227.
21. Panés J, Bordas JM, Piqué JM, García-Pagán JC, Feu F, Terés J, Bosch J, Rodés J. Effects Of Propranolol On Gastric Mucosal Perfusion In Cirrhotic Patients With Portal Hypertensive Gastropathy. *Hepatology* 1993; 17: 213-218.
22. Salmerón JM, Ruiz del Arbol L, Ginés A, García-Pagán JC, Ginés P, Feu F, Clària J, Rivera F, Bosch J, Arroyo V, Rodés J. Renal Effects Of Acute Isosorbide-5-Mononitrate Administration In Cirrhosis. *Hepatology* 1993; 17: 800-806.
23. Fernández M, Pizcueta P, García-Pagán JC, Feu F, Cirera I, Bosch J, Rodés J. Effects Of Ritanserin, A Selective And Specific 5-HT₂-Serotonergic Antagonist, On Portal Pressure And Splanchnic Hemodynamics In Rats With Long-Term Bile Duct Ligation. *Hepatology* 1993; 18: 389-393.
24. Feu F, Bordas JM, Luca A, García-Pagán JC, Escorsell A, Bosch J, Rodés J. Reduction Of Variceal Pressure By Propranolol: Comparison Of The Effects On Portal Pressure And Azygos Blood Flow In Patients With Cirrhosis. *Hepatology* 1993; 18:1082-1089.
25. Terés J, Bosch J, Bordas JM, García-Pagán JC, Feu F, Cirera I, Rodés J. Propranolol Vs Sclerotherapy In Preventing Variceal Rebleeding: A Randomized Controlled Trial. *Gastroenterology* 1993; 105: 1508-1514.
26. García-Pagán JC, Feu F, Castells A, Luca A, Bosch J, Rodés J. Circadian Variation of Portal Pressure In Patients With Cirrhosis. *Hepatology* 1994; 19: 595-601.
27. García-Pagán JC, Feu F, Luca A, Fernández M, Pizcueta P, Bosch J, Rodés J. Nicardipine Increases Hepatic Blood Flow And The Hepatic Clearance of ICG In Patients With Cirrhosis. *J Hepatol* 1994; 20: 792-796.
28. García-Pagán JC, Salmerón JM, Feu F, Luca A, Ginés P, Pizcueta P, Claria J, Piera C, Arroyo V, Bosch J, Rodés J. Effects of Low Sodium Diet And Spirolactone On Portal Pressure In Patients With Compensated Cirrhosis. *Hepatology* 1994; 19: 1095-1099.
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30. García-Pagán JC, Fernández M, Bernadich C, Pizcueta P, Piqué JM, Bosch J, Rodés J. Effects Of Continued Nitric Oxide Inhibition On The Development Of The Portal Hypertensive Syndrome Following Portal Vein Stenosis In Rat. *Am J Physiol (Gastro and Liver)* 1994; 30: G984-G990.
31. Morillas RM, Planas R, Cabré E, Galán A, Quer JC, Feu F, García-Pagán JC, Bosch J, Gassul MA. Propranolol Plus Isosorbide-5-Mononitrate For Portal Portal Hypertension In Cirrhosis. Long-Term Hemodynamic and Renal Effects. *Hepatology* 1994; 20: 1502-1508.
32. Luca A, García-Pagán JC, Feu F, Lopez-Talavera JC, Bru C, Bosch J, Rodés J. Non-Invasive Measurement of Femoral Blood Flow and Portal Pressure Response to Propranolol in Patients with Cirrhosis. *Hepatology* 1995; 21: 83-88.
33. Fernández M, García-Pagán JC, Casadevall M, Bernadich C, Piera C, Whittle BJ, Piqué JM, Bosch J, Rodés J. Evidence Against A Role For The Inducible NO Synthase In The Hyperdynamic Circulation of Portal Hypertensive Rats. *Gastroenterology* 1995; 108: 1487-1495.

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35. Luca A, García-Pagán JC, Bosch J, Feu F, Giménez W, Ginès A, Fernández M, Escorsell A, Arroyo V, Rodés J. Beneficial Effects of Intravenous Albumin Infusion on The Hemodynamic and Humoral Changes After Total Paracentesis. *Hepatology* 1995; 22: 753-758.
36. Feu F, García-Pagán JC, Bosch J, Luca A, Terés J, Escorsell A, Rodés J. Relation Between Portal Pressure Response to Pharmacotherapy and Risk of Recurrent Variceal Haemorrhage In Patients with Cirrhosis. *Lancet* 1995; 346: 1056-59.
37. Llach J, Bordas JM, Salmerón JM, Panés J, García-Pagán JC, Feu F, Navasa M, Mondelo F, Piqué JM, Mas A, Terés J, Rodés J. A Prospective Randomized Trial of Heater Probe Thermocoagulation Vs Injection Therapy in Peptic Ulcer Hemorrhage. *Gastrointestinal Endoscopy* 1996; 43: 117-120.
38. Fernández M, García-Pagán JC, Casadevall M, Mourelle MI, Piqué JM, Bosch J, Rodés J. Acute And Chronic Cyclooxygenase Blockade In Portal Hypertensive Rats. Influence on Nitric Oxide Biosynthesis. *Gastroenterology* 1996; 110: 1529-1535.
39. García-Pagán JC, Escorsell A, Feu F, Bandi JC, Moitinho E, Casado M, Bosch J, Rodés J. Propranolol Plus Molsidomine Vs. Propranolol Alone In The Treatment Of Portal Hypertension In Patients with Cirrhosis. *J Hepatol* 1996; 24: 430-435.
40. Escorsell A, Feu F, Bordas JM, García-Pagán JC, Luca A, Bosch J, Rodés J. Effects Of Isosorbide-5-Mononitrate On Variceal Pressure And Systemic And Splanchnic Hemodynamics In Patients with Cirrhosis. *J Hepatol* 1996; 24: 423-429.
41. García-Pagán JC, Santos C, Barberá JA, Luca A, Roca J, Rodríguez-Roisin R, Bosch J, Rodés J. Physical Exercise Increases Portal Pressure In Patients with Cirrhosis and Portal Hypertension. *Gastroenterology* 1996; 111: 1300-1306.
42. Bruix J, Castells A, Bosch J, Feu F, Fuster J, García-Pagán JC, Visa J, Bru C, Rodes J. Surgical Resection Of Hepatocellular Carcinoma In Cirrhotic Patients. Prognostic Value of Preoperative Portal Pressure. *Gastroenterology* 1996; 111: 1018-1022.
43. Feu F, Ruiz del Arbol L, Bañares R, Planas R, Bosch J, and Members of Variceal Study Group. Double-Blind Randomized Controlled Trial Comparing Terlipressin And Somatostatin In The Treatment Of Acute Variceal Hemorrhage In Patients With Cirrhosis. *Gastroenterology* 1996; 111: 1291-1299.
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46. Escorsell A, Bandi JC, Moitinho E, Feu F, García-Pagán JC, Bosch J, Rodés J. Time Profile Of The Hemodynamic Effects Of Terlipressin In Portal Hypertension. *J Hepatol* 1997; 26: 621-627.
47. Bandi JC, Poch E, García-Pagán JC, Luca A, Jimenez W, Escorsell A, Rodés J. Platelet Cytosolic Calcium Concentration In Patients With Liver Cirrhosis. Relationship With Hepatic And Systemic Hemodynamics. *J Hepatol* 1997; 27: 1-6.
48. Escorsell A, Bordas JM, Feu F, García-Pagán JC, Gines A, Bosch J. Endoscopic Assessment Of Variceal Volume And Wall Tension In Cirrhotic Patients. Effects Of Pharmacological Therapy. *Gastroenterology* 1997; 113: 1640-1646.
49. Casado M, Bosch J, García-Pagán JC, Bru C, Bañares R, Bandi JC, Escorsell A, Rodríguez-Laiz JM, Gilibert R, Feu F, Echenagusia A, Rodés J. Clinical Events Following Transjugular Intrahepatic Portosystemic Shunt: Correlation With Hemodynamic Findings. *Gastroenterology* 1998; 114: 1296-1303.
50. Albillos A, García-Pagán JC, Iborra J, Bandi JC, Cacho G, Pérez-Paramo M, Escorsell A, Calleja JL, Escartin P, Bosch J. Propranolol Plus Prazosin Compared To Propranolol Plus Isosorbide-5-Mononitrate In The Treatment Of Portal Hypertension. *Gastroenterology* 1998; 115: 116-123.
51. Guevara M, Gines P, Bandi JC, Gilibert R, Sort P, Jiménez W, García-Pagán JC, Bosch J, Arroyo V, Rodés J. Transjugular Intrahepatic Portosystemic Shunt In Hepatorenal Syndrome. Effects On Renal Function And Vasoactive Systems. *Hepatology* 1998; 28: 416-422.
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Hepatology 1998; 28: 677-682.

53. Escorsell A, Bordas JM, Ruiz del Arbol L, Jaramillo JL, Planas R, Bañares R, Albillos A, Bosch J, and Variceal Bleeding Group. Randomized Controlled Trial Of Sclerotherapy Versus Somatostatin Infusion In The Prevention Of Early Rebleeding Following Acute Variceal Hemorrhage In Patients With Cirrhosis. *J Hepatol* 1998; 29: 779-788.

54. Elizalde JI, Moitinho E, JC García-Pagán, Cirera I, Escorsell A, JC Bandi, Jiménez W, Bosch J, Piqué JM, Rodés J. Effects Of Increasing Blood Hemoglobin Levels On Systemic Hemodynamics Of Acutely Anemic Cirrhotic Patients. *J Hepatol* 1998; 29: 789-795.

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61. Perelló A, Escorsell A, Bru C, Gilabert R, Moitinho E, García-Pagán JC, Bosch J. Wedged Hepatic Venous Pressure Adequately Reflects Portal Pressure In Hepatitis C Virus-Related Cirrhosis. *Hepatology* 1999; 30: 1393-1397.

62. Escorsell A, Bordas JM, Perelló A, Llach J, Castañeda B, García-Pagán JC, Rodés J, Bosch J. Predictive Value Of The Variceal Pressure Response To Continued Pharmacological Therapy In Patients With Cirrhosis And Portal Hypertension. *Hepatology* 2000; 31: 1061-1067.

63. Escorsell A, Ruiz del Arbol L, Planas R, Albillos A, Bañares R, Calés P, Paterón D, Bernard B, Vinel J P, Bosch J, AND The TEST Study Members. Multicenter Randomized Controlled Trial of Terlipressin Versus Sclerotherapy in the Treatment of Acute Variceal Bleeding: The TEST Study. (Garcia-Pagan JC). *Hepatology* 2000; 32: 471-476.

64. Debernardi-Venon W, Bandi JC, García-Pagán JC, Moitinho E, Andreu V, Real M, Escorsell A, Montanyá X, Bosch J. CO2 Wedged Hepatic Venography In The Evaluation Of Portal Hypertension. *Gut*. 2000 Jun; 46(6):856-60.

65. Cirera I, Navasa M, Rimola A, García-Pagán JC, Grande L, García-Valdecasas JC, Fuster J, Bosch J, Rodés J. Ascites After Liver Transplantation. *Liver Transplantation* 2000; 6: 157-162.

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69. González-Abraldes J, Albillos A, Bañares R, Ruiz del Arbol L, Moitinho E, Rodríguez C, González M, Escorsell A, García-Pagán J.C, Bosch J. Randomized Comparison Of Long-Term Losartan Versus Propranolol Lowering Portal Pressure In Cirrhosis. *Gastroenterology* 2001; 121(2): 382-388.

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75. Perelló A, García-Pagán JC, Gilabert R, Suarez Y, Moitinho E, Cervantes F, Reverter JC, Escorsell A, Bosch J, Rodes J. TIPS Is A Useful Long-Term Derivative Therapy For Patients With Budd-Chiari Syndrome Uncontrolled By Medical Therapy. *Hepatology* 2002; 35: 132-9.
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77. Bañares R, Moitinho E, Matilla A, García-Pagán JC, Lampreave JL, Piera C, G.Abraldes J, De Diego A, Albillos A, Bosch J. Randomized Comparison Of Long-Term Carvedilol And Propranolol Administration In The Treatment Of Portal Hipertensión In Cirrhosis. *Hepatology* 2002; 36: 1367-1373.
78. Bellis L, Moitinho E, G-Abraldes J, Graupera M, García-Pagán JC, Rodés J, Bosch J. Acute Propranolol Administration Effectively Decreases Portal Pressure In Patients With TIPS Dysfunction. *Gut* 2003; 52: 130-133.
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24. García-Pagán JC, Suarez Y, Perelló A, Cervantes F, Moitinho E, Reverter JC, Escorsell A, Gilibert R, Bru C, Bosch J. Síndrome de Budd Chiari. *Siete Días Médicos* 1999.
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26. García-Pagán JC, Bosch J. Síndrome de Budd-Chiari(I). *Siete Días Médicos* 2000, 435: 114-115.
27. García-Pagán JC, Bosch J. Hipertensión portal. *Medicine* 2000; 8: 543-548.
28. Garcia-Pagan JC, Bosch J. Indicaciones de la Derivación Percutánea Portosistémica Intrahepática. *Medicine* 2000; 8: 641-643.
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SPANISH LETTERS TO EDITOR

1. García Pagán JC, Bordas JM. Laparoscopia en la Ascitis. *Med Clin (Barc)* 1988; 91: 437.

2. Alvarez R, García Pagán JC, Barragán V, Piqué JM. Diagnóstico radiológico y endoscópico erróneo de pólipo duodenal como causa de obstrucción pilórica. *Gastroenterol Hepatol* 1989; 12: 65 66.

NOTAS CLÍNICAS

1. De Pablo J, García-Pagán JC, Picado C, Perez P. Crisis de angustia desencadenadas por teofilina. *Med Clin (Barc)* 1987; 88: 549 550.

2. García-Pagán JC, Mas A, Salmeron J, Terés J, Bruguera M, Bru C, Rodés J. Hipertensión portal idiopática y trombosis del eje esplenoportal. ¿Una misma enfermedad?. *Gastroenterol Hepatol* 1987; 10: 456 458.

3. García-Pagán JC, Piqué JM, Monteagudo J, Feu F, Rives A. Hemorragia digestiva masiva secundaria a colitis por citomegalovirus en un paciente hemofílico con síndrome de inmunodeficiencia adquirida. *Med Clin (Barc)* 1988; 91: 741 743.

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5. Pedrol E, García-Pagán JC, Cirera I, Perez Ayuso RM, Castell T. Melanoma anorectal. Una localización inusual. *Gastroenterol Hepatol* 1989; 10: 468 469.

6. Cobo F, Cervantes F, García-Pagán JC, Bosch J Rozman C, Montserrat E. Síndrome de Budd-Chiari asociado a síndromes mieloproliferativos crónicos: análisis de seis casos. *Med Clin (Barc)* 1996; 107: 660-663.

CLINICAL GUIDELINES

• Bosch J, Abrales JG, Albillos A, Aracil C, Bañares R, Berzigotti A, Calleja JL, de la Peña J, Escorsell A, García-Pagán JC, Genescà J, Hernández-Guerra M, Ripoll C, Planas R, Villanueva C. "Hipertensión Portal: Recomendaciones para su Evaluación y Tratamiento". *Gastroenterol Hepatol.* 2012 Jun-Jul; 35(6): 421-50.

• EASL "Clinical Practice Guidelines: Vascular diseases of the Liver." Contributors:Chairman García-

Pagán JC; Panel members: Buscarini E, Janssen H, Leebeek F, Plessier A, Rubbia-Brandt L, Senzolo M, Schouten J, Tripodi A, EASLD Governing Board Member: Valla D. 2016 January;64(1): 179-202.

• Spaander MC, Baron TH, Siersema PD, Fuccio L, Schumacher B, Escorsell À, Garcia-Pagán JC, Dumonceau JM, Conio M, de Ceglie A, Skowronek J, Nordsmark M, Seufferlein T, Van Gossum A, Hassan C, Repici A, Bruno MJ. "Esophageal stenting for benign and malignant disease: European Society of Gastrointestinal Endoscopy (ESGE) Clinical Guideline. *Endoscopy*. 2016 Oct; 48(10):939-48. doi: 10.1055/s-0042-114210.

• Guía Clínica. Vascular diseases of the liver. Clinical Guidelines from the Catalan Society of Digestology and the Spanish Association for the Study of the Liver. ENFERMEDADES VASCULARES DEL HÍGADO Marta Martín-Llahí, Agustín Albillos, Rafael Bañares, Annalisa Berzigotti, M. Ángeles García-Criado, Joan Genescà, Virginia Hernández-Gea, Elba Llop Herrera, Helena Masnou Ridaura, Jo-sé Mateo, Carmen A. Navascués, Ángela Puente, Marta Romero Gutiérrez, Macarena Simón-Talero, Luis Téllez, Fanny Turon, Candid Villanueva, Roberto Zarrabeitia, Juan Carlos Garcia-Pagán *Gastroenterol Hepatol*. 2017 Oct;40(8):538-580. doi: 10.1016/j.gastrohep.2017.03.011. Epub 2017 Jun 11. English, Spanish.

Projects GRANTING OF AID FOR DEVELOPMENT PROJECTS RESEARCH AS PRINCIPAL INVESTIGATOR

- 1 . Granting support Health Research Fund of the Social Security (FISss) | Project . "Comparison of the hemodynamic effects of the association of propranolol + isosorbide -5-mononitrate versus propranolol + prazosin in chronic treatment of portal hypertension in patients with liver cirrhosis, " Ref . 94/ 0068 1994 . .
- 2 . Grant Fund support Health Research to Social Security (FISss) . | Project: " Mechanism of pancreatic glucagon hypersecretion and increased production of nitric oxide , factors involved in the hyperdynamic circulation in portal hypertensive rats interrelation with prostaglandins . " . Ref: 95/1016 . From 1995 to 1996 .
- 3 . Grant Fund support Health Research to Social Security (FISss) . | Project: "Mechanisms involved in the regulation of intrahepatic microcirculation Relationship between the genesis of portal hypertension in liver cirrhosis . " . Ref: 99/ 0362 . 1999-2001.
- 4 . Grant Fund support Health Research to Social Security (FISss) . | Project: "Contribution of P-selectin to leukocyte migration and aggregation of platelets in the hepatic microvasculature in the liver caused by T-lymphocytes . " Ref: 00/ 0995 . From 2000 to 2002 .
- 5 . Grant support Health Research Fund of the Social Security (FISss) . Project: "Dynamic intrahepatic vascular resistance in cirrhosis regulation . Role of nitric radical superoxide and vasoconstrictor prostanoids " oxide. Ref : 02/ 0692 . 2002-2005.
- 6 . Grant aid from the European Economic Community in the V Framework program. Project: "European group for the Study of Vascular Disorders of the Liver ." Program : Quality of Life and Management of Living Resources. Action line No. 7.3. " Chronic, degenerative and rare diseases" Project : No QLRT - 2001-01686 . Principal investigator in España.2002 -2004
- 7 . Grant aid from the Ministry of Education and Science . Project: " Role of SOD and COX Endothelial Dysfunction in Liver cirrhosis and modulating the bioavailability of NO . Relevance to Pathophysiology of Portal Hypertension . New Therapeutic Targets " . Ref: SAF2004 - 04783 . 2004-2006.
- 8 . Grant aid from the Ministry of Education and Science . Project: " Molecular mechanisms of intrahepatic endothelial dysfunction in cirrhosis. New treatment of portal hypertension " targets. Ref: SAF2007 - 61298 . From 2007 to 2010 .
- 9 . Grant aid from the Ministry of Education and Science . Project: " Characterization and Handling of New Therapeutic Targets Involved in the Pathophysiology of Portal Hypertension in Cirrhosis ." Ref: SAF2010 - 17043 . 2011-2013.
- 10 . Grant support Ministry of Health, Social Policy and Equality. Project: A randomized, double-blind , placebo-controlled trial on the effects of sapropterin in hepatic and systemic hemodynamics in patients with liver cirrhosis and portal hypertension . EC10 -069 . 2011 - December 2013.
- 11 . Grant aid from the Ministry of Education and Science . Project: "Molecular Mechanisms Involved in Structural and Functional Alterations in the Liver in Progression to Cirrhosis with Portal Hypertension". Ref: SAF2013-44723-R. Ends in December 2016. Amount: € 254,100
- 12 . Grant aid from the Ministry of Health, Social Policy and Equality . Project: : "Prospective multicenter, randomized study of the Rivaroxaban effect ed on the survival and development of portal hypertension complications in patients with cirrhosis". Ref: IC114 / 00133. Ends in December 2017. Amount: € 240,790

13. Grant aid Ministry of Health, Social Policy and Equality. Project: "Targeting endothelial dysfunction in highly prevalent diseases: characterization and validation of prognostic biomarkers and identification of potential therapeutic strategies." Ref: PIE15 / 00027. Ends in December 2018. Amount: € 720,500

14. Grant assistance from the Ministry of Education and Science. Project: "Idiopathic Portal Hypertension. Pathophysiology and Identification of Therapeutic Targets ". Ref: SAF2016-75767-R. From December 2016 to December 2019.

COLLABORATOR IN OTHER RESEARCH PROJECTS

1. Project "Treatment of chronic hepatitis". Principal investigator. JM Sánchez Tapias. Help CAICYT PA85 0075. 1985.

2. Project "Importance of alterations in hepatic, splanchnic vascular reactivity and Systemic in the pathophysiology of portal hypertension. "Principal investigator J. Bosch. Help CAICYT PA86 0085. 1986.

3. Project "Comparative study of variations in portal pressure and the pressure of esophageal varices after the administration of vasopressin and propranolol in cirrhotic patients ". Principal investigator J. Bosch. Help FISSs 88/1166. 1988

4. Project "Non-invasive measurement of portal blood flow and pressure of esophageal varices in the selection of patients and evaluation of the response to pharmacological treatment of portal hypertension". Main researcher J. Bosch. Help FISSs 91/0374. 1991

5. Project "Hemorrhage due to esophageal varices, clinical and experimental evaluation of a new form of treatment, intrahepatic percutaneous portosystemic shunt". Principal investigator J. Bosch. Help FISSs Ref: 94/0757. 1994

6. Project: "Prevention of Esophageal Varicose by Beta-Adrenergic Blockers". National Institute of Health (NIH-NIDDK) - National Institute of Health Division of Digestive Diseases and Kidney -1 RO1 DK46580-01. Principal investigator: J. Bosch.

7. DGICYT Project (SAF 96/0120) (1996-1998). "Role of the Selectins in the inflammatory processes associated with cirrhosis. Use of genetically manipulated animals. " Principal investigator: MP Pizcueta.

8. DGICYT Project (SAF 99-0007) (1999-2001). "Molecular characterization of alterations that initiate and perpetuate hepatic injury in experimental models of chronic liver disease." Principal investigator: J. Bosch.

9. Recognition GRUP DE RECERCA CONSOLIDAT-AGAUR: "HEMODINAMICA HEPATICA I HIPERTENSIO PORTAL". (2009-2013). Principal investigator: J. Bosch.

10. FCCI Subprogram 2009 ACI COLABORA (ACI2009-0938): "Cellular and molecular mechanisms in non-cirrhotic portal hypertension". Provision: € 95,000 for 3 years. Date of execution 01/12/2009 to 11/30/2012. Principal investigator: J. Bosch.

11. Project: Idiopathic Portal Hypertension in the patient infected with HIV. Prevalence, clinical course, identification of non-invasive diagnostic methods and prognostic factors. FIPSE 360963/2010 until June 2014. Main researcher: Montse Laguno.

12. Effects of Rivaroxaban on portal hypertension, liver function and liver fibrosis in CCL4 cirrhotic rats. BAYER HISPANIA, S.A. Since 08/01/2013. Amount: € 11,460.

Principal investigator: Juan Carlos García-Pagán.

13. Acute Variceal bleeding observational research study to confirm the improved outcome with the use of early-TIPS in patients at high-risk of treatment failure. GORE y Asociados SL. Since 08/12/2014. Principal investigator: Juan Carlos García-Pagán.

14. Clinical study of the BreathID LF System to train the algorithm for the breath test with ¹³C-metacetina in the evaluation of portal hypertension in patients with compensated liver cirrhosis. CSPH-EX-0414 EXALENZ BIOSCIENCE Ltd. Since 09/01/2014. Principal investigator: Juan Carlos García-Pagán.

15. Study of biomarkers of portal hypertension in patients with HCV who are receiving curative antiviral treatment .. Novartis Farmacéutica, S.A.

Since 02/09/2015. Amount: € 17,714. Principal Investigator: Juan Carlos García-Pagán

16. Collaborative Research Agreement, september, 2017 by and between Institute of Investigations August Pi I Sunyer and Novartis Institutes for BioMedical Research, Inc. ("Novartis"). Amount: € 58,927.00. Principal Investigator: Juan Carlos García-Pagán

Memberships

1. Member of the Catalan Society of Digestology. Member of the Board of Directors from June 1993 to June 1995.
2. Member of the Spanish Society of Digestive Diseases.
3. Member of the Spanish Society for the Study of Liver Diseases (AEEH) and member of the scientific selection committee from 2001 to 2004.
4. Member of the European Association for the Study of the Liver (EASL).
5. Member of the American Association for Study of Liver Diseases (AASLD).
6. Vice-secretary of the Spanish Association for the Study of the Liver (AEEH) since 2015.
7. Member of the Clinical Committee Research of AASLD and of the SIG since January 2016.

Other Relevant Information

DIRECTED DOCTORAL THESES

1. MARIONA GRAUPERA I GARCÍA-MILÀ, "Mecanismes Implicats En La Regulació Del To Vascular Intrahepàtic En La Cirrosi" (2003). Calificació: Excel·lent Cum Laude. Premi extraordinari de doctorat.
2. JUAN GONZÁLEZ-ABRALDES IGLESIAS, "Reducción Farmacológica De La Presión Portal En Pacientes Con Cirrosis Hepática. Implicaciones Pronósticas Y Nuevas Estrategias Terapéuticas" (2003). Calificació: Excel·lent Cum Laude.
3. ANTONIA PERELLÓ JUAN, "Utilidad De Las Técnicas Hemodinámicas En El Diagnóstico Y En El Tratamiento De La Hipertensión Portal: Nuevas Aportaciones" (2004). Calificació: Excel·lent Cum Laude.
4. VICTORIA ANDREU SOLSONA, "Estudio De La Complianza Venosa En La Cirrosis Hepática E Hipertensión Portal. Influencia En La Respuesta De La Presión Portal Al Propranolol" (2006). Calificació: Excel·lent Cum Laude.
5. MANUEL HERNÁNDEZ GUERRA DE AGUILAR, "Síndrome De Budd-Chiari. Avances En El Conocimiento De Su Fisiopatología Y Nuevas Estrategias Terapéuticas" (2006). Calificació: Excel·lent Cum Laude.
6. JORDI GRACIA SANCHO. Universidad de Barcelona (2007). "Mecanismes Involucrats En La Regulació Del To Vascular Hepàtic En La Cirrosi: Paper Dels Prostanoids Vasoconstrictors I De L'estrès Oxidatiu". Calificació: Excel·lent Cum Laude.
7. VASÍLICA MATEI. Universidad de Barcelona (2008). "Mecanismos Fisiopatológicos Que Regulan El Aumento De Tono Vascular En La Cirrosis Hepática: Papel Del Cofactor De La Enos, La Tetrahidropterina". Calificació: Excel·lent Cum Laude. Premio Extraordinario de Doctorado.
8. BÁRBARA LAVIÑA SIEMSEN, Universidad de Barcelona (2009). "Superóxido Dismutasa Y Estrés Oxidativo En La Regulación De La Biodisponibilidad Del Óxido Nítrico En La Cirrosis". Calificació: Excel·lent Cum Laude.
9. JUAN TURNES VAZQUEZ. Universidad de Barcelona (2010). "Implicaciones Pronósticas de la Reducción Farmacológica de la Presión Portal en Pacientes con Cirrosis Hepática. Mecanismos Fisiopatológicos de No Respuesta a los Beta-Bloqueantes y Nuevas Estrategias Terapéuticas". Calificació: Excel·lent Cum Laude.
10. EUGENIO ROSADO MATEO. Universidad de Barcelona (2013). "Mecanismes Involucrats En La Regulació Del To Vascular Hepàtic En La Cirrosi: Paper Dels Prostanoids Vasoconstrictors I Biodisponibilitat D'Òxid Nítric". Calificació: Excel·lent Cum Laude.
11. SUSANA SEIJO RÍOS. Universidad de Barcelona (2013). "Avances en el Diagnóstico, Etiopatogenia y Pronóstico de la Hipertensión Portal No Cirrótica". Calificació: Excel·lent Cum Laude.
12. MARTA DIVI ORIOL. Universidad de Barcelona (2013). "Mecanismos involucrados en la regulación del tono vascular hepático en la cirrosis: Papel de los antioxidantes en la biodisponibilidad de óxido nítrico". Calificació: Excelente Cum Laude.
13. EVA ERICE. Universidad Autónoma de Barcelona (2014). "Estudio del papel fisiopatológico de la resistencia a la insulina de la cirrosis"
14. ELBA LLOP. Universidad de Barcelona (2015). "Estudio de técnicas de imagen no invasivas en el diagnóstico y en la evaluación del pronóstico de sus complicaciones en pacientes con hipertensión portal". Calificació: Excelente Cum Laude. Premio Extraordinario de Doctorado curso 2014/2015.
15. PABLO BELLOT GARCIA. Universidad de Barcelona (03/02/2016). "Alteraciones inmunológicas y hemodinámicas asociadas a la traslocación bacteriana estimada por la presencia de fragmentos de

ADN bacteriano en pacientes con cirrosis hepática". Co-directores: Jaume Bosch y Juan Carlos García-Pagán. Calificación: Excelente Cum Laude.

16. ENRIC REVERTER. Universidad de Barcelona (2016). "Avances en el estudio de la hipertensión portal y en la definición del pronóstico de la hemorragia digestiva por varices esofágicas en la cirrosis hepática." Calificación: Excelente Cum Laude.

17. MARINA VILASECA BARCELÓ. Universitat de Barcelona (2017). "Mecanismes involucrats en la regulació de la resistència vascular intrahepàtica en la cirrosi: Paper dels anticoagulants i antioxidants." Calificación: Excelente Cum Laude

PARTICIPATION IN MASTERS

MASTERS OF THE UNIVERSITY OF BARCELONA

1. Teaching Coordinator of the Official Master's Degree at the University of Barcelona "Research in Hepatic Diseases". Academic Year 2008/2009; 2009/2010; 2010/2011; 2011/2012

MASTER CLINICAL RESEARCH: Specialty Hepatology

1. Postgraduate Master's in Hepatic Disease Research. Adjudication carried out by Resolution of the Administration of the Faculty of Medicine of the service contract for carrying out teaching activities in the postgraduate course. Professor Subject: Hipertensio Portal.

2. Postgraduate Master's in Hepatic Disease Research. Adjudication carried out by Resolution of the Administration of the Faculty of Medicine of the service contract for carrying out teaching activities in the postgraduate course. Course coordinator: Tools and methodology of the research. University of Barcelona UB 2014-2018 Course

MASTER

1. Official Master's Degree in Translational Medicine. Participation with the session: Metabolomy and liver disease, by the University of Barcelona (UB). 2012-2013 Course And 2013-2014.

MASTERS OF THE UNIVERSITY OF ALCALÁ

1. Master's degree in Hepatology. Own Title of the Universities of Alcalá and Autonomous of Madrid. Participation with the class: Hepatica Vascular Diseases in Madrid. July 5, 2013.

2. Master's degree in Hepatology. Own Title of the Universities of Alcalá and Autonomous of Madrid. Participation with the class: Venous Thrombosis Non-Cirrhotic Portal and Budd-Chiari Syndrome. January 16, 2015

3. Master's degree in Hepatology. Own Title of the Universities of Alcalá and Autonomous of Madrid. Participation with the class: Non-cirrhotic portal venous thrombosis and Budd-Chiari syndrome. March 11, 2016

4. Master's degree in Hepatology. Own Title of the Universities of Alcalá and Autonomous of Madrid. Participation with the class: Non-cirrhotic portal venous thrombosis and Budd-Chiari syndrome. January 13, 2017

DOCTORAL THESIS COURT MEMBER

1. Member of the Doctoral Thesis Court, University of Barcelona by: Josefa Ros (1998); Sofia Perez del Pulgar (2001); Anna Massaguer (2003), Begoña González (2004), Josep M^a Miñana (2005); Salvador Benlloch (2008), Eva Morán Salvador (2013), Jessica García Lucio (2017), André Nazar (2017)

2. Member of the Doctoral Thesis Court, University of La Laguna of: Zaida Adrián de Ganzo (2015).

3. Member of the Doctoral Thesis Court, Universidad Miguel Hernández (Alicante) by: Laura Gómez-Escolar Viejo (2016)

MEMBER OF THE COURT OF EVALUATION OF RESEARCH SUFFICIENCY TO THE STUDENTS OF THE DOCTORAL PROGRAM

1. Member of the Court evaluating the research sufficiency of the students of the Doctorate in Biopathology in Medicine program, in April 2003.

OTHERS

Associate editor of the Continuing Education Program "Gastroenterology and Hepatology" of the Spanish Association of Gastroenterology (AEG) and Spanish Association for the Study of the Liver (AEEH), accredited by the Continuing Education Committee of the National Health System with 17 credits From the year 2000 until its completion December 2011.

1. Accredited by the Department of the Environment and Housing of the Generalitat of Catalonia as Research Personnel in animals for experimentation and other scientific purposes since September 11, 2000, in accordance with what is established by Decree 214/1997, of 30 of Julio.

2. Evaluator of research projects of the National R & D Plan by the Ministry of Education and Science.

Since year 2004

3. Member of the Center for Biomedical Research in the Liver and Digestive Diseases Network (Ciberehd). Deputy Coordinator of Area 1: portal hypertension and Mechanisms of transition to Cirrhosis from November 2006 to the present.
4. Course in Evaluator Training Workshop, for the Accreditation of Units, Processes and professional competences in Hepatology. Granada, October 16-17, 2008
5. Collaborator as Expert of the Spanish Agency of Medicines and Health Products (AEMPS), Year 2010-2011.
6. Collaborator as expert in Hepatology at the European Medicines Agency (EMA) July 4, 2011 to December 2013.
7. Course "Clinical History V3CCEE". Hospital Clínic de Barcelona, July 6, 2011
8. Certificate of Instructor by the Spanish Association of Surgeons, in the "XVI Course of Hepatobiliary Surgery for residents of 4th and 5th year". Having participated as an Instructor on 23-27 January 2011 and 8-11 October 2012.
9. Certificate of Good Clinical Practices (ICH - GCP). Performed by Brookwood International Academy at Hospital Clinic of Barcelona on May 2016.