

## Evaluation and Management of Perioperative Cirrhosis

(2019-2022)

### REFERENCES

1. Ripoll C, Groszmann R, Garcia-Tsao G et al. Hepatic Venous Pressure Gradient Predicts Clinical Decompensation in Patients With Compensated Cirrhosis. *Gastroenterology*. 2007;133:481– 488
2. Ziser A, Plevak DJ, Wiesner RH, et al. Morbidity and mortality in cirrhotic patients undergoing anesthesia and surgery. *Anesthesiology*. 1999;90: 42-53.
3. Garrison RN, Cryer HM, Howard DA, Polk HC Jr. Clarification of risk factors for abdominal operations in patients with hepatic cirrhosis. *Ann Surg*. 1984;199: 648-655.
4. Mansour A, Watson W, Shayani V, Pickleman J. Abdominal operations in patients with cirrhosis: still a major surgical challenge. *Surgery*. 1997;122: 730-75; discussion 735-736.
5. The MELD Model, UNOS Modification. *Mayo Clinic*. Available at: <http://www.mayoclinic.org/meld/mayomodel6.html>. Accessed April 5, 2012.
6. Teh SH, Nagorney DM, Stevens SR, et al. Risk factors for mortality after surgery in patients with cirrhosis. *Gastroenterology*. 2007; 132: 1261-1269.
7. Demetriades D, Constantinou C, Salim A, et al. Liver cirrhosis in patients undergoing laparotomy for trauma: effect on outcomes. *J Am Coll Surg*. 2004; 199: 538-542.
8. Hsieh PH, Chen LH, Lee MS, et al. Hip arthroplasty in patients with cirrhosis of the liver. *J Bone Joint Surg Br*. 2003; 85: 818-821.
9. Lok AS, McMahon BJ; Practice Guidelines Committee, American Association for the Study of Liver Diseases (AASLD). Chronic hepatitis B: update of recommendations. *Hepatology*. 2004; 39: 857-861.
10. Ghany MG, Strader DB, Thomas DL, et al. Diagnosis, management, and treatment of hepatitis C: an update. *Hepatology*. 2009; 49: 1335-1374.
11. O'Shea RS, Dasarathy S, McCullough AJ; Practice Guideline Committee of the American Association for the Study of Liver Diseases; Practice Parameters Committee of the American College of Gastroenterology. Alcoholic liver disease. *Hepatology*. 2010; 51: 307-328.
12. Garcia-Tsao G, Sanyal AJ, Grace ND, et al. Prevention and management of gastroesophageal varices and variceal hemorrhage in cirrhosis. *Hepatology*. 2007; 46: 922-938.
13. Runyon BA, AASLD Practice Guidelines Committee. Management of adult patients with ascites due to cirrhosis: an update. *Hepatology*. 2009; 49: 2087-2107.
14. Fan ST, Lo CM, Lai EC, et al. Perioperative nutritional support in patients undergoing hepatectomy for hepatocellular carcinoma. *N Engl J Med*. 1994; 331: 1547-1552.
15. Tripodi A, Anstee QM, Sogaard KK, et al. Hypercoagulability in cirrhosis: causes and consequences. *J Thromb Haemost*. 2011; 9: 1713-1723.
16. Hanje AJ and Patel T. Preoperative evaluation of patients with liver disease. *Nature Clinical Practice Gastroenterology & Hepatology*. 2007; 4: 266–276
17. Frye JW and Perri RE. Perioperative risk assessment for patients with cirrhosis and liver disease. *Expert Rev Gastroenterol Hepatol*. 2009; 3(1): 65-75
18. Malik SM and Ahmad K. Preoperative Risk Assessment for Patients with Liver Disease. *Medical Clinics*. 2009; 93(4): 917 – 929

19. O'Leary JG and Friedman LS. Predicting surgical risk in patients with cirrhosis: from art to science. *Gastroenterology*. 2007; 132: 1609-1611.
20. Telem DA, Schiano T, Goldstone R, et al. Factors that predict outcome of abdominal operations in patients with advanced cirrhosis. *Clin Gastroenterol Hepatol*. 2010; 8: 451-47,
21. Lopez-Delgado JC, Ballus J, Esteve F et al. Outcomes of abdominal surgery in patients with liver cirrhosis. *World J Gastroenterol*. 2016 March 7; 22(9): 2657-2667
22. Leung AA, McAlister FA, Rogers SO et al. Preoperative Hyponatremia and Perioperative Complications. *Arch Intern Med*. 2012; 172(19):1474-1481.
23. Hennrikus E, Ou G, Kinney B, et al. Prevalence, timing, causes, and outcomes of hyponatremia in hospitalized orthopaedic surgery patients. *JBJS*. 2015 Nov 18; 97(22): 1824-32.
24. Causey MW, Steele SR, Farris Z, Lyle DS, Beitler AL. An assessment of different scoring systems in cirrhotic patients undergoing nontransplant surgery. *Am J Surg*. 2012; 203(5): 589-93.
25. Cho HC, Jung HY, Sinn DH, Choi MS, Koh KC, Paik SW, et al. Mortality after surgery in patients with liver cirrhosis: comparison of Child-Turcotte-Pugh, MELD and MELDNa score. *Eur J Gastroenterol Hepatol*. 2011; 23(1): 51-9.
26. Mayo Clinic™ Post-operative Mortality Risk Calculator. <https://www.mayoclinic.org/medical-professionals/transplant-medicine/calculators/post-operative-mortality-risk-in-patients-with-cirrhosis/itt-20434721#> Accessed last on April 16, 2019.
27. Kennedy WF, Everett GB, Cobb LA, Allen GD. Simultaneous systemic and hepatic hemodynamic measurements during high spinal anesthesia in normal man. *Anesth Analg Curr Res*. 1970; 49(6): 1016
28. Steadman RH and Nguyen-Lee JW. Anesthesia for Surgical Procedures in Cirrhotic Patients Other than Liver Transplantation: Management, Concerns, and Pitfalls. In: B. Eghtesad, J. Fung (eds.), *Surgical Procedures on the Cirrhotic Patient*. Springer International Publishing AG 2017; 57-65
29. Greason KL, Verghese M, Wiesner RH et al. Transcatheter Aortic Valve Replacement in Patients with Cirrhosis. *Journal of Cardiac Surgery*. 2013; 28: 492-495.
30. Puggioni A and Wong LL. A Metaanalysis of Laparoscopic Cholecystectomy in Patients with Cirrhosis. *J Am Coll Surg*. 2003; 197: 921-926
31. Warnick P, Mai I, Klein F et al. Safety of Pancreatic Surgery in Patients with Simultaneous Liver Cirrhosis: A Single Center Experience. *Pancreatology*. 2011; 11: 24-29
32. Seol YJ, Yoon TR, Lee DH et al. Outcome analysis of hip or knee arthroplasty in patients with cirrhotic liver disease. *Journal of Orthopaedics*. 2017; 14: 171-175
33. Northup PG, Friedman LS and Kamath PS. AGA Clinical Practice Update on Surgical Risk Assessment and Perioperative Management in Cirrhosis: Expert Review. *Clinical Gastroenterology and Hepatology*. 2019; 17: 595-606
34. Tabchouri N, Barbier L, Menahem B et al. Original Study: Transjugular Intrahepatic Portosystemic Shunt as a Bridge to Abdominal Surgery in Cirrhotic Patients. *J Gastrointest Surg*. (2019): 1-8
35. De Pietri L, Bianchini M, Montalti R, et al. Thrombelastography guided blood product use before invasive procedures in cirrhosis with severe coagulopathy: a randomized, controlled trial. *Hepatology*. 2016; 63: 566-573.
36. Levitsky J, Verna EC, O'Leary JG et al. Perioperative Ledipasvir-Sofosbuvir for HCV in Liver-Transplant Recipients. *N Engl J Med*. 2016; 375: 2106-2108

37. Hickman L, Tanner L, Chistein J and Vickers S. Non-hepatic abdominal surgery in patients with chronic liver disease. *Journal of Gastrointestinal Surgery*. 2019; 23: 634–642.