









Clinical Evidence for CytoSorb® Therapy in Liver

Name	Title	Aim	Number of patients	Type of study	Outcome
 <b>Riva et al., J Art Orgs 2023; epub</b>	Extracorporeal Liver Support Techniques: a comparison	Compared 17 pts who had 28 CytoSorb® treatments with; 19 pts who had 37 coupled plasma filtration adsorption (CPFA) treatments; 1 pt who had 3 MARs treatments; 1 pt who had 5 prometheus treatments; and 1 pt who had 2 plasma adsorption perfusion treatments.	39	Retrospective comparative analysis	CytoSorb® showed a significantly higher adsorption ability for Total Bilirubin (TB) and direct bilirubin (DB) compared to CPFA. Comparing all techniques, CytoSorb® was the most efficient system.
 <b>Greimel et al., Ann Intensive Care 2023; 13(1):110</b>	Extracorporeal adsorption of protective and toxic bile acids and bilirubin in patients with cholestatic liver dysfunction: a prospective study	Studied bilirubin and bile acids (BA) in pts with cholestatic liver dysfunction	20	Case Series	CytoSorb® can remove bilirubin and various bile acids in critically ill patients with cholestatic liver dysfunction. Fast saturation of the adsorber observed resulting in a rapid decrease in the reduction rate.
 <b>Popescu et al., J Clin Med 2023; 12(6):2258</b>	Artificial Liver Support with CytoSorb® and MARS in Liver Failure: A Retrospective Propensity Matched Analysis	Comparison CytoSorb® & Molecular Adsorbent Recirculating System (MARS) in liver failure patients	15 v 15	Retrospective cohort study	CytoSorb® associated with decreased bilirubin, ammonia, lactate and transaminases compared to MARS gp with a 10 point decrease in the Model for End-State Liver Disease (MELD) score
 <b>Ocskay et al., J Clin Med 2021; 10(21):5182</b>	Hemoadsorption in 'Liver Indication' - Analysis of 109 patients' data from the CytoSorb® international registry.	Analysis of 'liver indication' subgroup patients from the CytoSorb® International Registry (total 1434 patients).	109	Registry	Baseline serum bilirubin levels were significantly reduced pre versus post CytoSorb® use.



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 Scharf et al., Sci Rep 2021; 11(1); 10190	Successful elimination of bilirubin in critically ill patients with acute liver dysfunction using a cytokine adsorber and albumin dialysis: a pilot study.	Compare bilirubin removal by CytoSorb® with removal by ADVOS in patients with acute liver failure (various etiologies).	33	Case series	Both devices led to significant bilirubin removal & lower than expected mortality rates but only CytoSorb® use resulted in hemodynamic stabilization and was much easier to use.
 Tomescu et al., Int J Artif Organs 2021; 44(8): 560-4	Haemoadsorption by CytoSorb® in patients with acute liver failure: a case series.	Assess clinical effects of CytoSorb® in biochemical paramters in patients with acute liver failure. Patients treated with 3 consecutive 24 hrs sessions.	28	Case series	Suggest use of CytoSorb® as a therapeutic option for management of liver impairment providing biochemical control, aiding bridge to liver transplantation, or until spontaneous remission.

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