Product Parameters	BS330 Disposable Plasma Bilirubin Adsorption Column	HA330-II Disposable Hemoperfusion Cartridge
Adsorbent volume(ml)	330	330
Adsorbent material	Polystyrene divinylbenzene anion exchange resin	Double Crosslinked Styrene Divinylbenzene Copolymers
Housing material	Polypropylene	Polycarbonate
Sterilization method	Moist heat sterilization	Irradiation Sterilization
Unit Package	280mm(L)×105mm(W)×108mm(H)	285±2mm(L)*117±2mm(W)*108±2mm(H)

*Contraindications, Warnings and Precautions refer to Instructions For Use.

JAFRON - Global manufacturer and supplier of adsorption columns

Jafron Headquarters

CE

ISO 9001

EN ISO 13485

References

[1] Xia, Q. et al. A single-center experience of non-bioartificial liver support systems among Chinese patients with liver failure. Int. J. Artif. Organs 2014; 37, 442–454

[2] Yao, J. et al. Therapeutic effect of double plasma molecular adsorption system and sequential half-dose plasma exchange in patients with HBV-related acute-on-chronic liver failure. J. Clin. Apher 2019; 1–7. doi:10.1002/jca.21690

[3] Wan, Y. M. et al. Therapeutic plasma exchange versus double plasma molecular absorption system in hepatitis B virus-infected acute-on-chronic liver failure treated by entercavir: A prospective study. J. Clin. Apher 2017; 32, 453–461.

[4] Rong, J. et al. Fructus Psoraleae–induced liver injury and treatment with two artificial liver support systems:a case series study. Ther. Apher. Dial 2019; doi:10.1111/1744-9987.13438

[5] Li, M. et al. Part of plasmapheresis with plasma filtration adsorption combined with continuous hemodiafiltration in the treatment of severe acute liver failure. Exp. Ther. Med 2016; 12, 2582–2584.

[6] Ma, K. wang et al. Synergistic effects of polymer adsorbents on the performance of bilirubin hemoperfusion. J. Biomater. Sci. Polym. Ed 2017; 28, 2053–2065

[7] Ma, Y. et al. Safety and Efficacy of Regional Citrate Anticoagulation during Plasma Adsorption Plus Plasma Exchange Therapy for Patients with Acute-on-Chronic Liver Failure: A Pilot Study. Blood Purif 2019; 610041

[8] Su, R. et al. Preparation and adsorption properties of novel porous microspheres with different concentrations of Bilirubin. Blood Purif 2016; 42, 104–110

[9] Tan, Y. et al. Therapeutic plasma exchange and a double plasma molecular absorption system in the treatment of thyroid storm with severe liver injury: A case report. World J. Clin. 2019; Cases 7, 1184–1190

[10] Jiajia Chen. et al. A clinical study on the treatment of severe hepatitis by a combined artificial liver. Hepato-Gastroenterology 2012; doi:10.5754/hge12025

[11] Sharma. et al. Hepatitis a virus-induced severe hemolysis complicated by severe Glucose-6-Phosphate Dehydrogenase deficiency. Indian J. Crit. Care Med 2018; 22, 670–673

[12] Chen, G. et al. Effects of dual plasma molecular adsorption system on liver function, electrolytes, inflammation, and immunity in patients with chronic severe hepatitis. J. Clin. Lab. Anal 2019; 1–6. doi:10.1002/jcla.22926

[13] Li, L. et al. Transjugular Intrahepatic Portosystemic Shunt Combined with Haemoperfusion in an End-stage Renal Disease Patient with Liver Cirrhosis-related Refractory Portal Hypertensive Variceal Bleeding: A Case Report. WIMJ Open 20115; 64, 452–455.

[14] Li, M. qin et al. Efficacy of Various Combined Blood Purification Techniques for Treating Patients with Non-viral Acute Liver Failure. Cell Biochem. Biophys 2014; 68, 571–575.

[15] Li, M. Combined use of non-biological artificial liver treatments for patients with acute liver failure complicated by multiple organ dysfunction syndrome. World J. Emerg Med 2014; 5, 214.

[16] Li, M. et al. Clinical observation on the treatment of acute liver failure by combined non-biological artificial liver. Exp. Ther. Med 2016; 12, 3873–3876 (2016).

JAFRON BIOMEDICAL CO., LTD.

Address: No. 98, Technology Sixth Road, High-tech Zone, Zhuhai City , 519085, Guangdong, China.

Tel: +86 (756) 3689708

E-mail: overseatrade@jafron.com

Website: en.jafron.com

(For Internal Use)

CY-DPMAS-01-10-2021-EN

Jafron

Stock Abbreviation: JFSW

Stock Code: 300529

CE 0197

Double Plasma Molecular Adsorption System

A recommended artificial liver system in CMA Liver Failure Guidelines

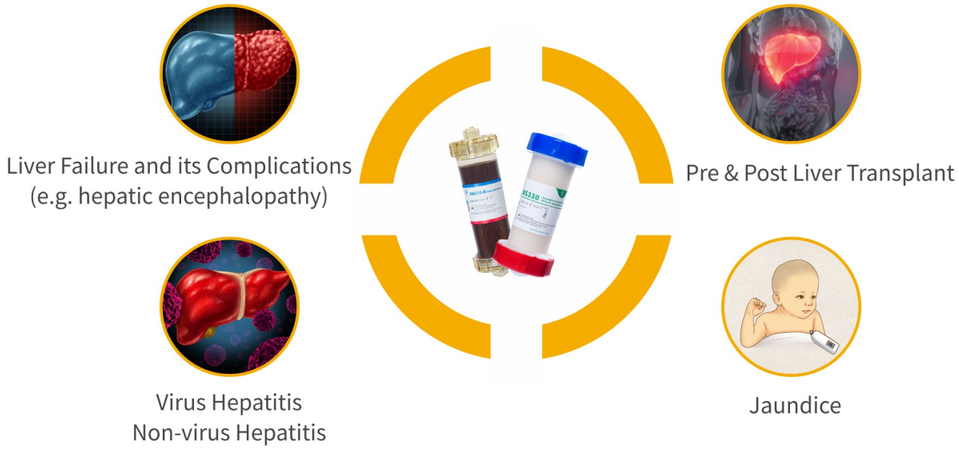
DPMAS

Comprehensive Therapy for Hepatopathy

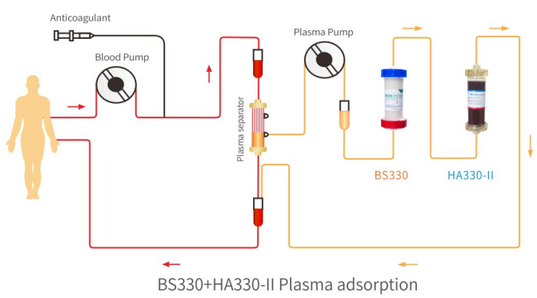
Double Plasma Molecular Adsorption System (DPMAS) provides a **new solution for liver disease**. It adsorbs bilirubin, removes inflammatory mediators, eases inflammation and immune responses as well as considerably relieves the clinical symptoms and eventually improves the long-term prognosis of patients.

Adsorption Therapy Applications[Δ][2-5]

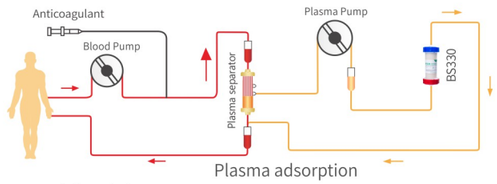
According to clinical practices, DPMAS therapy can be applied in the listed conditions.



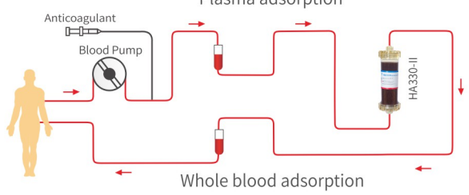
Therapy Operation Modes[Δ]



BS330+HA330-II Plasma adsorption



Plasma adsorption



Whole blood adsorption

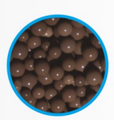
BS330 adsorbs bilirubin, bile acid.

BS330 Disposable Plasma Bilirubin Adsorption Column

Anion-exchange resin

HA330-II broad-spectrum adsorbs toxins such as inflammatory mediators, bilirubin, etc.[3]

HA330-II Disposable Hemoperfusion Cartridge

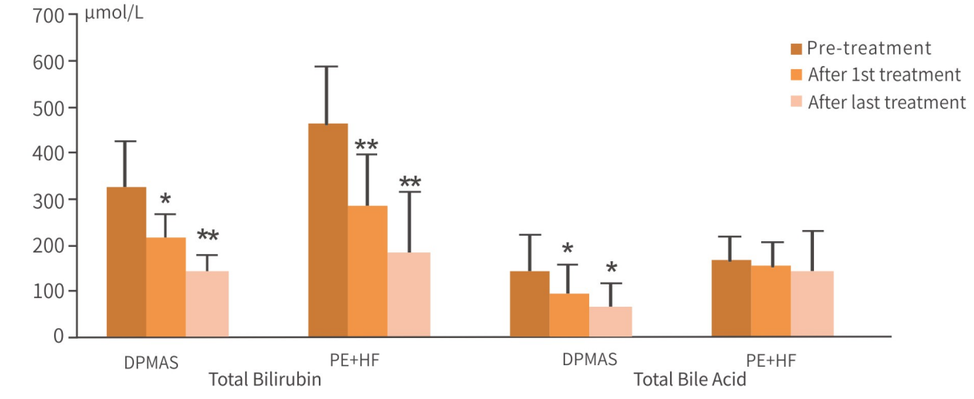


Neutral-macroporous resin

[Δ]For detailed information, please visit en.jafron.com.

Clinical Data

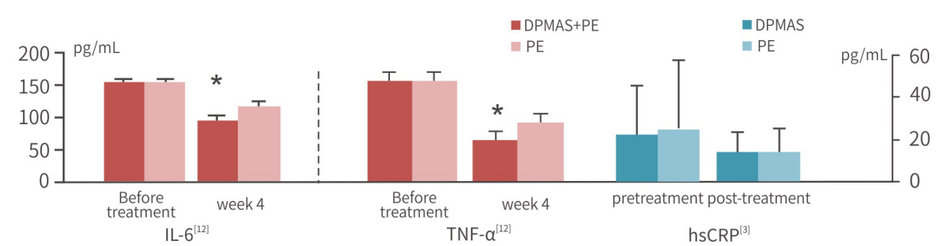
• Remove Bilirubin and Bile Acid



PE: Plasma exchange; HF: Hemofiltration. Compared with pre-treatment, *p<0.05,**p<0.01[4]

Clinical studies showed that DPMAS could remove Bilirubin[1-16] and Bile Acid[3-4,10], and have comparable effect as therapeutic plasma exchange.[4]

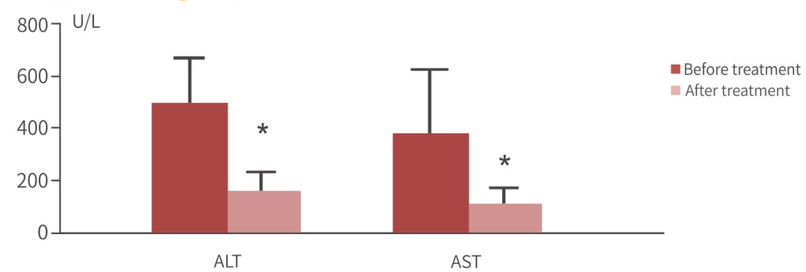
• Remove Inflammatory Mediators and Improve Hemodynamics



IL-6, Interleukin-6; TNF-α, Tumor necrosis factor-α; hsCRP, High sensitivity C reactive protein.Compared with before treatment, *p<0.05[12]

DPMAS(HA330-II) could remove the inflammatory mediators such as IL-6[3,12], TNF-α[12], CRP[3,12] and PCT[3], and balance the ammonia[11] level, thus to improve the clinical symptoms.

• Improve Organ Function



Compared with before treatment, *p<0.05[5]

DPMAS(HA330-II) could improve liver function by improving the levels of AST[2-5,10-11], ALT[2-5,9-12,16], ALP[9], GGT[9], and other indexes.