



**DIACARE
SOLUTIONS**

Trusted Partner

MG

Disposable Hemoperfusion Cartridge



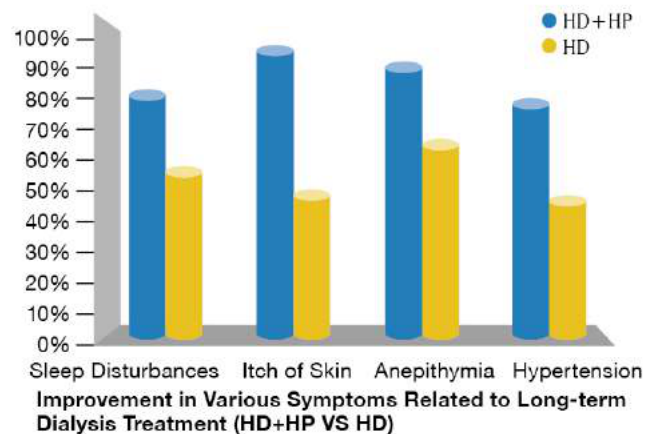
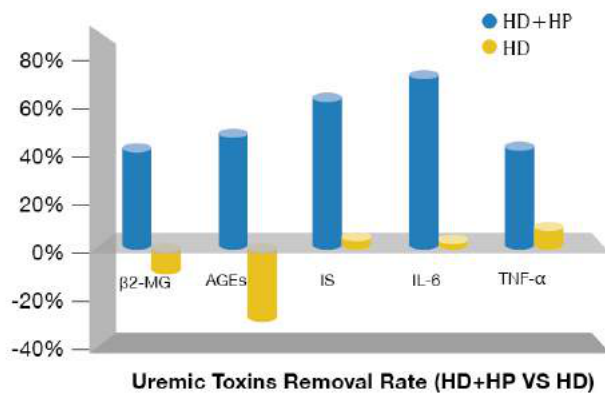
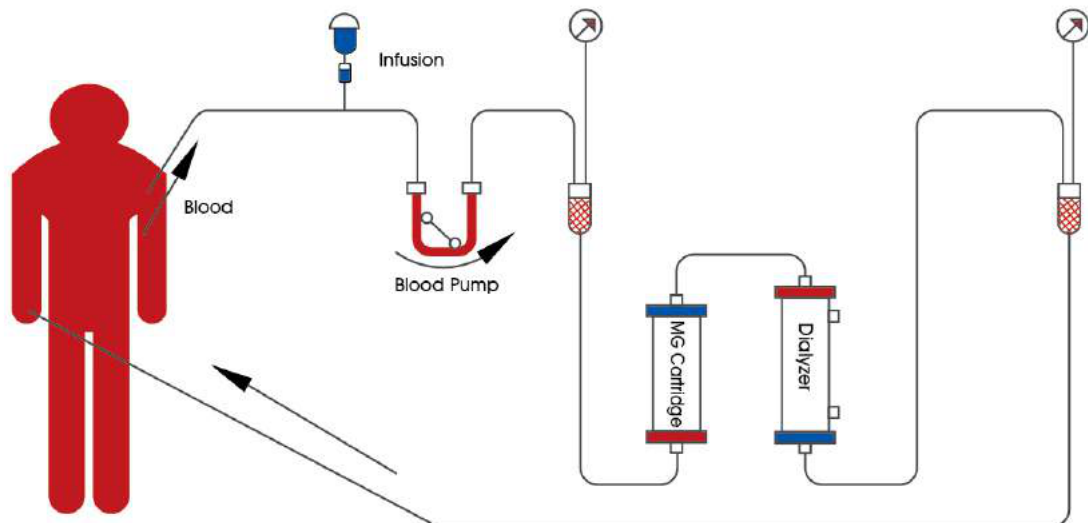
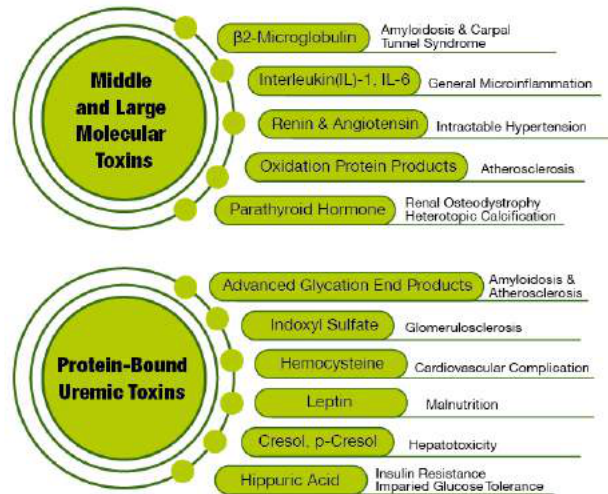
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ESRD

Hemodialysis is a major treatment for renal failure at present. Conventional hemodialysis aims to eliminate small water-soluble toxins while other bigger-size uremic toxins can hardly be removed.

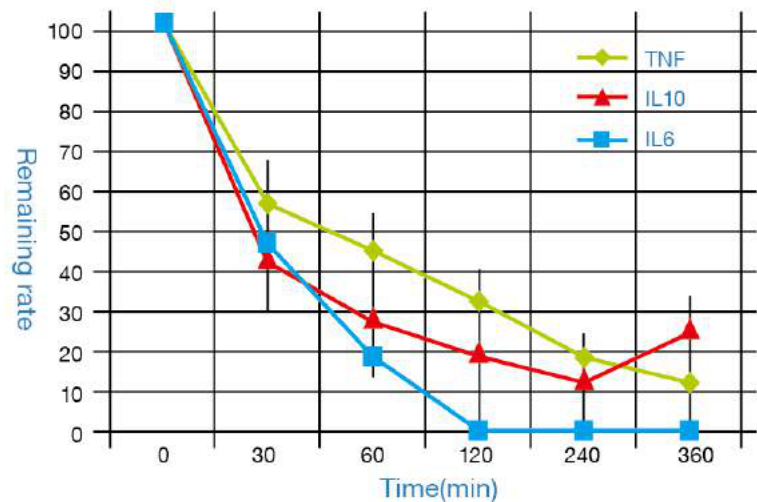
HD+HP procedure makes advantage of each other for blood purification. In this way, metabolic product and uremic toxins, including middle-large size and protein-bound toxins, produced by renal failure patient could be thoroughly removed and the water, as well as electrolyte could be regulated to balance. Eventually, internal environment remains balance and patient's life quality is improved.

PARTIAL UREMIA TOXIN AND RELATIVE COMPLICATIONS



ICU

Severe infection and its relative septic shock, and multiple organ dysfunction syndromes (MODS) are the main death reasons of intensive care unit (ICU) patients. The happenings of systemic inflammatory response, pro-inflammatory factors and anti-inflammatory factors are the critical elements of infection of SIRS & MODS. Different from other blood purification methods, hemoexfusion removes the factors effectively by adsorption.

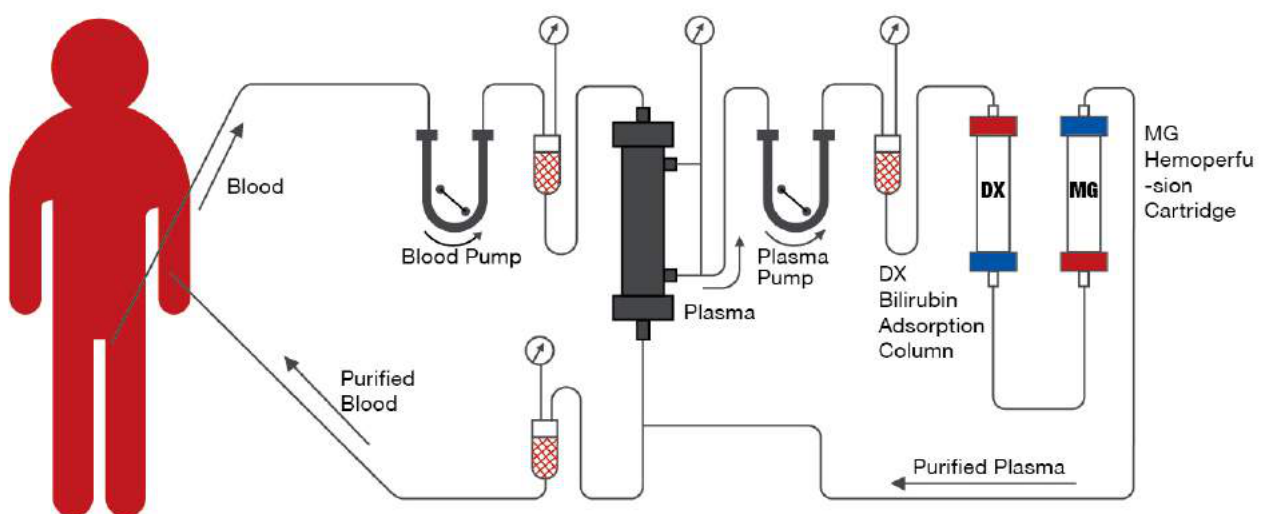


Combining hemoperfusion and CRRT treatment can be more effective to treat the severe diseases.

- Severe multiple trauma
- Severe acute pancreatitis
- Acute respiratory distress syndrome
- Burn, Sepsis
- Stevens-Johnson Syndrome
- Crush syndrome
- Hyperlipidemia
- Henoch-schonlein purpura

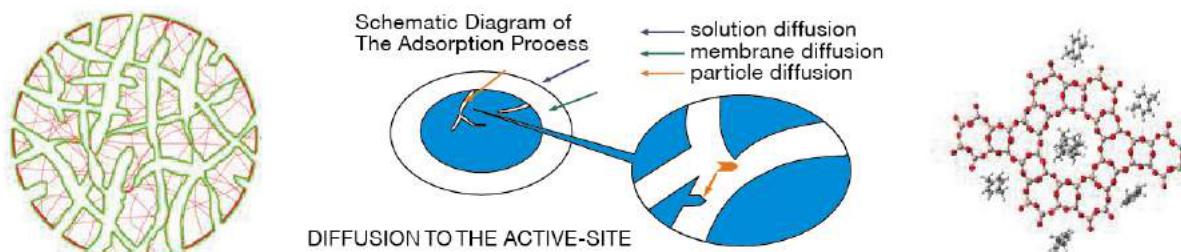


Bilirubin Inflammatory Molecule Adsorption System (BIMAS): The separated plasma goes through DX Bilirubin Adsorption Column and MG Hemoperfusion Cartridge. Finally, it goes back to patient's body. The system not only can remove bilirubin, but also can remove inflammatory medium, relieve inflammation and immunoreactions.



POISONING

Pesticide and overdose drug are the main reasons of human poisoning. Relying on the specific adsorption capacity, hemoperfusion performs effectively on removing these exogenous toxins in blood, which are hard to be removed by gastric lavage and general medical treatment.



TYPE	DRUGS OR TOXINS
Analgesics, Antirheumatics	Acetaminophen, Acetylsalicylic acid, Colchicine, Methylsalicylate, Phenylbutazone, D-propoxyphene, Salicylic acid, Tramadol
Antidepressants	Amitriptyline, Clozapine, Imipramine, Tricyclics
Antimicrobials, Anticancer	Adriamycin, Chloramphenicol, Doxorubicin, Chloroquine, Dapsone
Barbiturates	Amobarbital, Pentobarbital, Phenobarbital, Secobarbital
Nonbarbiturate, Hypnotics, Sedatives, Tranquilizers, Anticonvulsants	Carbamazepine, Carbromal, Chloral hydrate, Diazepam, Diphenylhydramine, Ethchlorvynol, Glutethimide, Meprobamate, Methaqualone, Phenytoin, Valproic acid
Cardiovascular Agents	Atenolol, Digoxin, Diltiazem, Flecainide
Solvents, Gases	Acetone, Camphor
Metals, Inorganics	Aluminum, Iron, Cisplatin
Plant And Animal Toxins, Herbicides, Insecticides	Amanitin, Chlordane, Diquat, Methyl parathion, Organophosphates, Paraquat, Parathion, Tetramine
Miscellaneous	Aminophylline, Phenols, Theophylline

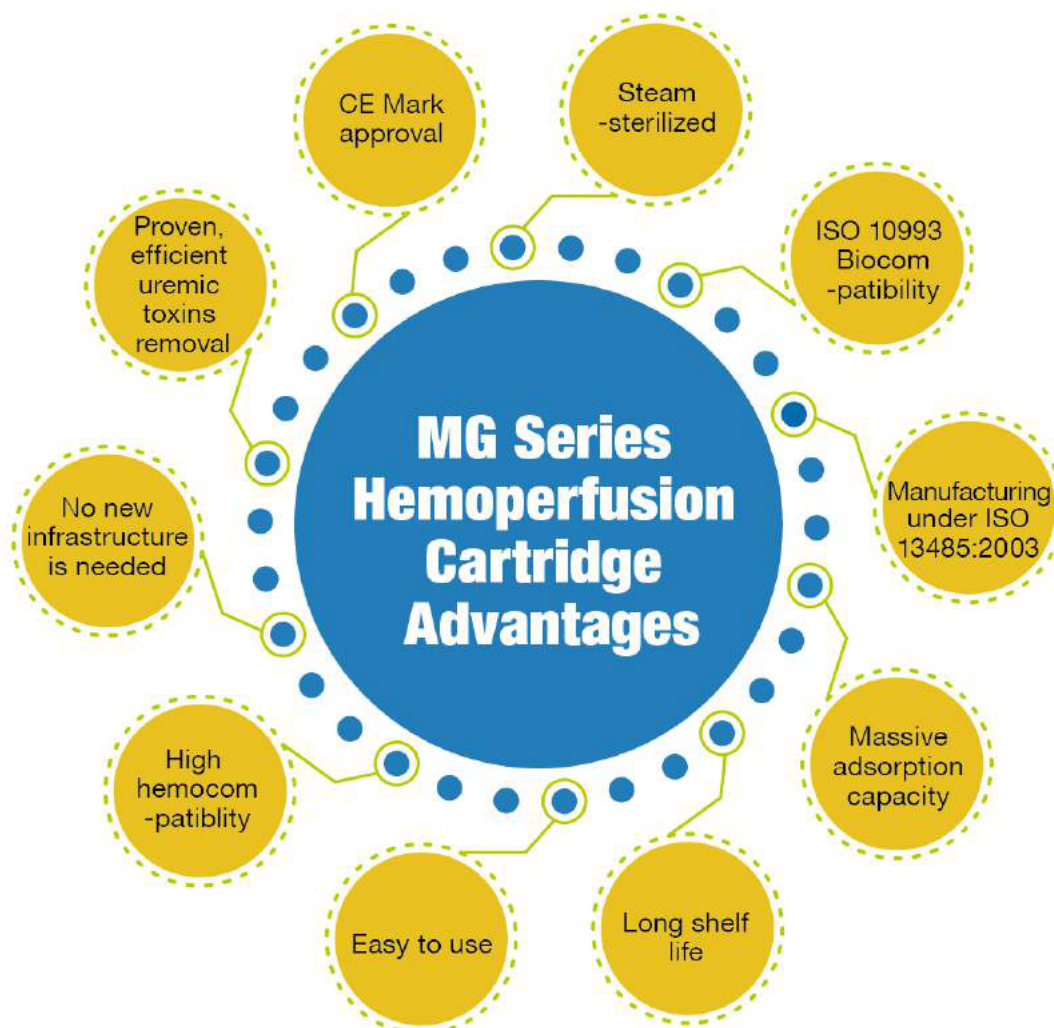
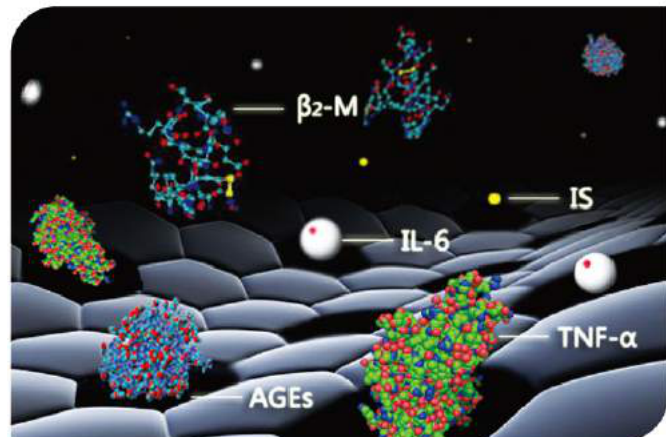
CLEARANCE TEST RESULT

ITEM	BEFORE TREATMENT (mg/L)	AFTER TREATMENT (mg/L)	CLEARANCE
Cd (II)	2.00	0.22	89.0%
Hg (II)	2.00	0.22	89.0%
Dimethoate	49	0.78	98.4%
Paraquat	6.4	0.24	96.3%
DDVP	9.8	0.41	95.8%
Phoxim	47.5	0.8	98.3%
Amlodipine Besylate	40.0	2.3	94.3%
Aminophylline	50.0	10.7	78.6%

ADSORPTION MECHANISM FOR HEMOPERFUSION

Hemoperfusion devices containing adsorbents have been used to remove uremic toxins (such as creatinine, middle-size particles), drugs, poisons, immunopathogenic agent, endotoxin, low density lipoprotein, bilirubin, β 2-microglobulin and so on.

MG Series Hemoperfusion Cartridge's relatively specific adsorption to middle and large molecular and protein-bound toxins depends on adsorbent pore capture, the ability to sieve decided by structure, Van der Waals force and hydrogen bond.





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