With the goal of providing know-how and innovation in blood purification industry, this open to the world and inviting you to join us for this valued and loving career!

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A Blood Purification Therapy: Adsorb Harmful Substances in Blood

- **1912** Diffusion on animal
- **1914** Plasma exchange (PE) first used in clinic
- **1923** Peritoneal dialysis (PD) first used in clinic
- **1926** Hemodialysis (HD) first used in clinic
- **1945** HD first successfully saved renal patient's life
- **1964** Charcoal adsorption (HP) first used in clinic
- **1969** Hemofiltration (HF) first used in clinic
- **1977** Continuous renal replacement therapy (CRRT) first used in clinic

**Material technology developing...**

- **2002** HA resin hemoperfusion cartridge first used in clinic
- **2005** DNA Immunoadsorbent Column first used in clinic

**HP Recommendations**

- Drug Overdose & Poisoning
- Renal Failure Disease
- Hepatopathy
- Critical Disease
- Immune Disease

**Combination Therapies**

- HP+HD
- HP+HDF
- HP+CVVH
- HP+HF
- HP+PE

**Disposable Hemoperfusion Cartridge**

- HA130
  - ESRD
- HA230
  - Acute Poisoning
- HA280
  - Immune Disease
- HA330
  - Critical Disease
- HA330-II
  - Hepatic Failure

**Specific Adsorbent Cartridges**

- BS330
  - Bilirubin Adsorption
  - Anion-exchange resin (BS Bilirubin Adsorbent Column)

**Machines**

- DNA230
  - SLE
  - Immunoadsorption resin (DNA Immunoadsorbent Column)
- DX-10
  - Blood Purification Machine
- JF-800A
  - Portable Hemoperfusion Machine
Renal Failure Disease

HA130 Disposable Hemoperfusion Cartridge
(For ESRD Patients)

Combined Artificial Kidney — A Leading Blood Purification Technology
Combined Artificial Kidney is a blood purification treatment, combining hemoperfusion (HP: HA130) with hemodialysis/hemodiafiltration, to comprehensively clear uremic toxins.

- HP (HA130) can absorb middle molecular toxins and protein-bound toxins.
- HD can clear small molecular substances and excessive water.

Combined Artificial Kidney: HD/HDF+HP
At present, HD/HDF+HP is the preferred therapy for clearance of uremic toxins in ESRD. Superior capability & Comprehensively remove uremic toxins

Advanced Technology - Simple Operation

HD+HP Provides a Better Blood Purification Therapy for ESRD

- Fully clear toxins

HD/HDF+HP (HA130):

- Effectively clear middle and protein-bound uremic toxins, relieve symptoms of the ESRD complications.
- 16 years’ clinical application, 85% market share in China, application in over 3400 hospitals, treatment for 1.5 million ESRD patients.
- Flexible application. Compatible with all the blood purification machines and various blood purification therapies such as HD, HDF and CVVH.
- Water-saving & environment-friendly

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Drug Overdose & Poisoning

HA230 Disposable Hemoperfusion Cartridge
(For various drug poisonings and intoxication)

Hemoperfusion — The Key to Acute Poisoning
HA230 efficiently adsorbs toxins in blood and relieves the symptoms of acute poisoning. Clinical practices prove an ideal efficacy of Jafroon HA230 in drug poisoning and intoxication caused by fat soluble poison or toxicant that is easily combined with plasma protein.

Application Recommendation

- Organophosphorus pesticide poisoning
  - Comparison with conventional hemoperfusion adsorbent
    - More effective and specific
    - Better biocompatibility and safer

- Rodenticide poisoning
  - Comparison with traditional medical treatment
    - Save rescue time: conduct HP before knowing category and concentration of poisons.
    - Remove unknown or mixed toxins.
    - Protect important organs: quickly adsorb drugs in blood and avoid damaging organs.
    - Especially for poisonings without antidote.

Table: Comparison Between HD and HP on Drug Clearance Effect

<table>
<thead>
<tr>
<th>Drugs</th>
<th>HD</th>
<th>HP (extracts chlorophacin meth)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Berlitiruates</td>
<td>+</td>
<td>++++</td>
</tr>
<tr>
<td>Gluchothide</td>
<td>-</td>
<td>+</td>
</tr>
<tr>
<td>Methaqualone</td>
<td>a</td>
<td>++</td>
</tr>
<tr>
<td>Diazepam</td>
<td></td>
<td>+++</td>
</tr>
<tr>
<td>Sodpmy</td>
<td></td>
<td>+</td>
</tr>
<tr>
<td>Digitetin</td>
<td></td>
<td>++</td>
</tr>
<tr>
<td>Quinidine</td>
<td></td>
<td>+++</td>
</tr>
<tr>
<td>Procainamide</td>
<td></td>
<td>+++</td>
</tr>
<tr>
<td>Dimethoate</td>
<td></td>
<td>+++</td>
</tr>
<tr>
<td>DDVP</td>
<td></td>
<td>+++</td>
</tr>
<tr>
<td>Other drugs</td>
<td></td>
<td>+++</td>
</tr>
</tbody>
</table>

HA230 + JF-800A Hemoperfusion Machine
For emergency cases and units that need simple HP facilities.

Simple and Convenient Operation on Any Blood Purification Machine

Direct Blood Perfusion

Improve the Clearance Rate of Drugs and Poisons

Significantly Improve Therapeutic Effect

Email: sandeep_asianmedicos@yahoo.com / Website: www.asianmedicosenterprise.com
HA330 — Unique Efficacy for Critical Disease
HA330 effectively and specifically removes inflammatory mediators, regulates the body immunity and performs unique efficacy in treating critical disease.
- Clear inflammatory mediators such as IL-6, TNF-α, CRP, etc.
- Improve hemodynamics and injured organ function, reducing the mortality rate.

Application Recommendation
- Sepsis
- Severe acute pancreatitis
- Systemic inflammatory response syndrome (SIRS)
- Multiple organ dysfunction syndrome (MODS)
- Others

Flexible Combination with Any Other Blood Purification Therapies
- HP+CVVH, CPFA, PFAD, HP+HVHF, etc
- Convenient connection on blood purification devices

HA330 Provides Better Therapy for Critical Disease.
- HA330 can promote the recovery of organ function [2-8], reduce severe acute pancreatitis (SAP) mortality and improve critical diseases scores [1,4].
- HA330 can effectively clear excessive inflammatory mediators [4-6].

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Hepatopathy

**BS330 Plasma Adsorption Cartridge**
(For hyperbilirubinemia and hyperbileacidaemia)

BS330, filling with anion-exchange resin, can specifically adsorb bilirubin and bile acids. It works effectively to relieve the symptoms of hyperbilirubinemia and hyperbileacidaemia.

**Laboratory Test Results**
Adsorption test result of plasma in vitro, the efficacy of adsorption for 6 hours:

<table>
<thead>
<tr>
<th>Adsorption duration (h)</th>
<th>Circulating plasma volume</th>
<th>The average decreased total bilirubin (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3600</td>
<td>59.68%</td>
</tr>
<tr>
<td>4</td>
<td>7200</td>
<td>67.16%</td>
</tr>
<tr>
<td>6</td>
<td>10800</td>
<td>71.06%</td>
</tr>
</tbody>
</table>

**Clinic Trial of BS330**

The Double Plasma Molecular Adsorption System (DPMAS) specifically adsorbs bilirubin, effectively clears inflammatory mediators, eases inflammation and immune responses as well as considerably relieves the symptoms of hepatopathy and eventually improves the long-term prognosis of patients.

**HA330-II Disposable Hemoperfusion Cartridge**
(For liver disease)

HA330-II extensively adsorbs middle molecular toxins induced by liver disorder, such as inflammatory mediators, ammonia, phenol, mercaptan, etc. Recommend for drug-induced hepatitis, hepatic failure & complications such as hepatic encephalopathy, etc.

**Flexible Operation**

The Double Plasma Molecular Adsorption System (DPMAS) specifically adsorbs bilirubin, effectively clears inflammatory mediators, eases inflammation and immune responses as well as considerably relieves the symptoms of hepatopathy and eventually improves the long-term prognosis of patients.
Immune Disease

DNA230 Immunoabsorbent Column
(For Systemic Lupus Erythematosus)

Created in China · World-leading
DNA Immunoabsorbent Column is a world-leading blood purification technology created in China, especially for Systemic Lupus Erythematosus (SLE) and its complications. DNA Immunoabsorbent Column can specifically adsorb ANA & anti-ds-DNA and clear pathogenic immunologic complexes, accordingly ease SLE symptom, protect kidney function, enhance drug sensitivity, reduce the side effect of medicine treatment and improve patients’ prognosis.

- High specificity: immune reaction, specifically recognize and bind anti-DNA antibodies, antinuclear antibodies and their immune complexes.
- High safety: good biocompatibility, high mechanical strength of adsorbents, stable adsorption.
- Convenience: direct blood adsorption, suitable for most blood purification machines.

Common Treatment Modes of DNA Immunoabsorbent Column
- Direct Blood Adsorption
- Hemoperfusion + Hemodialysis

Clinical Study Conclusion
Reduce anti-ds-DNA and ANA titre
- ANA: 40.2 → 38.8
- anti-ds-DNA: 16.3 → 9.6

Improve patients’ symptoms
- Before Treatment: SLEDAI Score: 18
- 1st Treatment: 9.6
- 2nd Treatment: 6.8

HA280 Disposable Hemoperfusion Cartridge
(For autoimmune diseases such as allergic purpura, psoriasis, rheumatoid arthritis, etc.)

HA280 — Rapid Relief from Autoimmune Disease
HA280 effectively and specifically removes numerous immune related pathogenic factors and improves prognosis.
- Remove pathogenic factors such as IL-1, IL-6, TNF-α, INF-γ, etc.
- Clear middle-to-large molecular toxins such as Leptin, β-2-MG, PTH, CRP, etc.

Advanced Technology · Simple Operation

Clinical Efficacy

HA280 + JF-800A Hemoperfusion Machine
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DX-10 Blood Purification Machine

- Multi-functional
- Smart & Safe
- Economical & Practical

JF-800A Components Features

- Convenient
- Safe
- Stable

Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>310mm(W)×240mm(D)×430mm(H)</td>
</tr>
<tr>
<td>Setting range of target volume</td>
<td>1~99999ml</td>
</tr>
<tr>
<td>Weight</td>
<td>15kg</td>
</tr>
<tr>
<td>Blood pump flow rate accuracy</td>
<td>within±5%</td>
</tr>
<tr>
<td>Size of Medical Trolley</td>
<td>510mm(W)×480mm(D)×750mm(H)</td>
</tr>
<tr>
<td>Low range of heparin pump</td>
<td>0~10ml/h</td>
</tr>
<tr>
<td>Weight of Medical Trolley</td>
<td>20kg</td>
</tr>
<tr>
<td>Heparin pump flow rate accuracy</td>
<td>±5% or ±0.2ml/h (Take the larger absolute value)</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC220V, 50Hz</td>
</tr>
<tr>
<td>Indication range of pressure before the cartridge</td>
<td>20~107KPa (±1KPa)</td>
</tr>
<tr>
<td>Power</td>
<td>about 200VA</td>
</tr>
<tr>
<td>Alarm setting range of pressure before the cartridge</td>
<td>20~107KPa (±1KPa)</td>
</tr>
<tr>
<td>Fuse protector</td>
<td>5×3×20mm, T2AL2.50VAC</td>
</tr>
<tr>
<td>Indication range of venous pressure</td>
<td>±18~±400KPa (±1KPa)</td>
</tr>
<tr>
<td>Electric shock protection grade</td>
<td>Class I, Type B</td>
</tr>
<tr>
<td>Alarm setting range of venous pressure</td>
<td>±18~±400KPa (±1KPa)</td>
</tr>
<tr>
<td>Applicable tubes</td>
<td>Standard tubes with inner diameter of 0.8mm or 0.6mm</td>
</tr>
<tr>
<td>Temperature setting range of heating medium</td>
<td>36~41°C (±0.1°C)</td>
</tr>
<tr>
<td>Alarm</td>
<td>Flow range of blood pump</td>
</tr>
<tr>
<td></td>
<td>9<del>650ml/min (0.7</del>4ml/min)</td>
</tr>
</tbody>
</table>

DX-10 Blood Purification Machine Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>300mm×340mm×1200mm</td>
</tr>
<tr>
<td>Weight</td>
<td>7.6kg</td>
</tr>
<tr>
<td>Malfunction</td>
<td>PUC</td>
</tr>
<tr>
<td>Display screen</td>
<td>7.4 inch color LCD touch screen</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC 220V, 50Hz</td>
</tr>
<tr>
<td>Power</td>
<td>500VA</td>
</tr>
</tbody>
</table>

Heater

- Method and range: Heated on either side of the plate (35~41°C)
- Protection method: Temperature sensor, thermal breaker 45°C

Cut-off valve and Clamper

- Cut-off valve electromagnetic switch
- Clamper: Electric drive

Manometer

- Pressure of plasma separator inlet: -5.33~48kPa, ±1.33kPa (400~300mmHg, ±10mmHg)
- Venous pressure: -5.33~48kPa, ±1.33kPa (400~300mmHg, ±10mmHg)
- Pressure of plasma inlet: -5.33~48kPa, ±1.33kPa (400~300mmHg, ±10mmHg)
- Pressure of waste plasma outlet: -5.33~48kPa, ±1.33kPa (400~300mmHg, ±10mmHg)
- TMP: -5.33~48kPa, ±1.33kPa (400~300mmHg, ±10mmHg)

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