***HEMOPERFUSION***

**It is an extracorporeal procedure in which patient blood pass through activated charcoal containing cartridge added to the circuit of HD machine.**

**Principle:**

* **It is based on the principle physical adsorption of chemicals on to a surface**
* **Toxins that are adsorbed to activated charcoal**

**Indications:**

* **Intoxication with substances which are not removed by liver or kidney**
* **Drug overdose**
* **Poisioning**
* **Hepatic coma**
* **Sepsis**
* **MODS**
* **MOF**

**Technical aspects:**

**Vascular access:- DLC, femoral catheter**

**Choice of dialyzer:-**

**High efficiency, high flux, biocompatibility.**

**HP cartridge:-**

**Activated carbon, ion exchange**

**Procedure:-**

1. **Priming :-HP cartridge rinsing with 2 liters heparinized saline**
2. **Heparinization :-HP cartridge more heparin due to adsorption (6000 to 10000 ) per session**

**Maintainence APTT**

1. **Duration HP:-**

**Usally 3 to 4 hours**

**Longer use result in saturation of cartridge**

**Complication:-**

* **Thrombocytopenia**
* **Hemolysis**
* **Hypocalcemia**
* **Hypothermia**
* **Hyperthermia**
* **hypoglycemia**