

## Principles Of Miniaturized Extracorporeal Circulation

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The major components of the extracorporeal circuit are as follows: 1, a blood access device (shown as a central venous catheter); 2, a blood pump; 3, a blood purification device (hemodialyzer, hemofilter, or sorbent cartridge); 4, an anticoagulant infusion pump; 5, air-capture chambers; 6, pressure-monitoring systems (shown as a pressure transducer isolated from the blood path by a pressure-transmitting sterile barrier); 7, a side line for priming the extracorporeal circuit with saline; 8 ...

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## **Principles of Miniaturized ExtraCorporeal Circulation ...**

Minimal invasive extracorporeal circulation (MiECC) refers to a combined strategy . 145. of surgical approach, anaesthesiological and perfusion management and not be is. 146. limited to the CPB circuit alone. Several terms have been used to 147 invasive extracorporeal describe a minimal

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As there is no venous reservoir, the patient's vascular system acts as a 'reservoir'. Moreover, air entrainment is far more difficult to handle compared to conventional extracorporeal circulation (CECC). Perfusion during surgery with MECC follows two main principles: volume management and air handling.

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