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Research Article

Blood conservation protocol based on modified ultrafiltration towards bloodless pediatric surgery

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Author(s): Mohammad Saleh*

Background: Cardiopulmonary Bypass (CPB) application may cause severe hemodilution and an acute systemic inflammatory response syndrome, especially with blood components transfusion. Multi-function circuit of cardioplegia delivery, conventional ultrafiltration, and modified ultrafiltration was advocated to reverse the CPB hemodilution and conserve patient's blood thro ...