Record Nr. UNINA9910820747003321 Autore Matte Gregory S. **Titolo** Perfusion for congenital heart surgery: notes on cardiopulmonary bypass in a complex patient population / / Gregory S. Matte Hoboken, New Jersey: .: Wiley Blackwell, . 2015 Pubbl/distr/stampa ©2015 **ISBN** 1-118-90085-5 1-118-90092-8 Descrizione fisica 1 online resource (216 p.) Disciplina 617.4/12 Soggetti Congenital heart disease - Surgery Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Nota di contenuto Title Page: Copyright Page: Contents: Foreword: Preface: Acknowledgments; Chapter 1 Equipment for bypass; Oxygenators; The oxygenator membrane; The integral ALF (select models only); The venous reservoir; The cardiotomy filter; The heat exchanger; Arterial line filters; Tubing packs; Cardioplegia systems; Recirculating cardioplegia system; Nonrecirculating cardioplegia system; Continuous cardioplegia system; The heart-lung machine; The arterial pump head; The heater-cooler system; Cannulae; Venous cannulae; Arterial cannulae; References; Oxygenators and emboli; Gaseous microemboli on bypass Cardioplegia in generaldel Nido cardioplegia solution; Microplegia; Arterial pump heads; Chapter 2 Priming the bypass circuit; Prime constituents; Common prime constituents; Steps for priming; Where and when to prime?: Water testing the oxygenator's integrated heat exchanger; Carbon dioxide flush; Crystalloid prime; Blood prime; References; Chapter 3 The bypass plan; Communication agreement for case; Anticoagulation management; Minimizing circuit exposure; Limiting the nonphysiologic appearance of bypass circuitry; Limiting activation of procoagulant factors Monitoring the effect and dosing of heparinReversing the

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## Sommario/riassunto

Confidently devise a safe and successful 'plan for the pump run' for patients undergoing surgery for congenital heart disease. This practical guide for perfusionists and other members of the cardiac surgical team provides information on the devices, technology and techniques required for successful bypass of patients with congenital heart defects A practical, spiral-bound, go-to reference designed to answer the most frequently-posed questions about bypass for CHD, the surgical treatment of which is often complicated Focuses on the latest technology and techniques and provides clear, matter-of