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Cardiopulmonary Bypass: Principles and Techniques of Extracorporeal Circulation Softcover reprint of the original 1st ed. 1995 Edition by Christina T. Mora (Editor), R.A. Guyton (Co-editor), D.C. Finlayson (Co-editor), R.L. Rigatti (Co-editor) & 1 more

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This bypass technique requires cannulation of large systemic veins to drain deoxygenated venous blood into a cardiopulmonary bypass machine (heart-lung machine or pump-oxygenator), which then returns oxygenated blood to the circulation via an arterial conduit.

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FIG 5.1. Detailed schematic diagram of arrangement of a typical cardiopulmonary bypass circuit using a membrane oxygenator with integral hard-shell venous reservoir (lower center) and external cardiotomy reservoir. Venous cannulation is by a cavoatrial cannula and arterial cannulation is in the ascending aorta.

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Blood pressure during cardiopulmonary bypass should be controlled in order to maintain good tissue perfusion. The aim in the normal adult is over 50 mm mercury. As the patient with worse cardiovascular preserve, the aim should be elevated to 60. And the infant's target should be over 30 mm mercury.

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38. Wheeldon DR, Bethune DW. Blood conservation during cardiopulmonary bypass—autologous transfusion, cell saving

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and haemofiltration. In: Taylor KM , ed. Cardiopulmonary bypass—principles and management. Baltimore: Williams & Wilkins, 1986:289–311. 39. Salzman EW. Low-molecular-weight heparin. Is small beautiful?

## **Cardiopulmonary Bypass: HEMOFILTRATION, DIALYSIS, AND ...**

Cardiopulmonary bypass (CPB) is a technique in which heart-lung machine temporarily takes over the function of the heart and lungs during surgery. The CPB is operated by the perfusionist. During the heart operation, the perfusionist takes over the heart function. The perfusionist works in close relation with the anesthesiologist and the surgeon.

## **Cardiothoracic anesthesiology - Wikipedia**

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LeGallois, 1812. Advances in techniques of cardiopulmonary bypass (CPB) have allowed a successful coronary artery bypass grafting, cardiac valve surgery, and repair of congenital heart defects. In the cardiac operating room, successful implementation of CPB involves input from and interaction among the perfusionist, anesthesiologist, and the ...

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Extracorporeal membrane oxygenation (ECMO) is an adaptation

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of conventional cardiopulmonary bypass techniques to provide cardiopulmonary support. ECMO provides physiologic cardiopulmonary support to aid reversible aspects of the disease process and to allow recovery. ECMO does not provide treatment of the underlying disease.

## **Extracorporeal membrane oxygenation, an anesthesiologist's ...**

Cardiopulmonary bypass (CPB) is an imminent element of today's cardiac surgery. Major differences not only exist in setup and materials, but also in management strategies. The phases of CPB are similar to the adult, but the effects on the body and the physiological disturbances are far more pertinent.

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## **Cardiopulmonary Bypass : Principles and Techniques of ...**

Cardiopulmonary bypass, principles and management. Kenneth M. Taylor, ed. Baltimore, 1986, Williams & Wilkins, 439 pages, \$58.95. Cardiopulmonary Bypass, Principles and Management is a timely book that fills a large void in the textbook field. Within the past 5 years only one other textbook has attempted to organize and summarize the multiple factors comprising cardiopulmonary bypass technique.

## **Cardiopulmonary bypass, principles and management ...**

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