Perfusion Technique

An Arterial Cannula That Doesn’t Kink

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A workable arterial cannula for aortic cannulation during heart-lung bypass has been developed at the University of Iowa Hospitals. Present arterial cannulae are made with a right angle, or there are straight cannulae which are made of a material which has a tendency to kink very easily. We presently use the cannula as shown, which is made of a material that will not kink when bent.

A cannula is fashioned by cutting the ends off of a Bardic venous cannula. The 24 Bardic venous (serial number 007432—formerly 1862-S) cannula when cut as shown has a comparable pressure gradient of the 22 French arterial cannula. A sleeve for the cannula is made with a short section of 1/4 inch tubing and slipped onto the cannula. The sleeve acts as a stop which can be adjusted as needed and also is used to tie the cannula securely in place. (See Figure 1)