

# Kapp Surgical's Left Ventricular Shunt Catheter

Patent  
Pending

Secured in place by a built-in inflatable balloon tip



## Indications:

Venting of the left heart is indicated whenever the left ventricle is unable to handle the amount of blood that is returning to it. The advisability of venting the left ventricle during coronary artery bypass operations has clinically shown better left ventricle performance immediately after coronary bypass operations in which a vent was used. Venting the left ventricle can prevent left ventricular distention even in the presence of considerable aortic regurgitation and competent mitral valve.<sup>1</sup>

## The purpose of venting the left ventricle:

- Prevent distention of the ventricle
- Reduce myocardial re-warming
- Prevent cardiac ejection of air
- Facilitate surgical exposure
- Decrease O<sub>2</sub> demand due to decrease in wall tension
- Facilitate sub-endocardial perfusion
- Prevent pulmonary hypertension
- Prevent mechanical damage from excessive muscle stretching

## Benefits:

The use of intermittent venting offers the advantage of left ventricular decompression in both the beating heart as well as in the arrested heart. By reducing left ventricular workload, this creates a favorable myocardial oxygen supply/demand, both before and after aortic cross-clamping.

Left ventricular venting during re-perfusion is warranted in hearts with decreased ejection fractions or that have been incompletely re-vascularized or have sustained a period of severe ischemia. Drs. Olinger and Bonchek<sup>2</sup> both found improved left ventricular performance immediately after coronary artery bypass surgery when a suction vent was used and many other studies have shown that using a vent improves cardiac performance immediately after coronary artery bypass operations.

## Features:

The Left Ventricular Shunt Catheter has a malleable stylus for ease of access. Once in position, it is secured during surgery with a unique inflatable balloon and offers surgeons a **non-sutured solution** to venting the left ventricle. This product is supplied sterile for one time use, exclusively from Kapp Surgical.

**1-1-17 This Product is NOT AVAILABLE for Sale in the United States**

<sup>1</sup>©1992 by The Society of Thoracic Surgeons  
<sup>2</sup>Annals of Thoracic Surgery 1978; 26:525-34