

Surgical Spindle Tissue Slicer/Extractor

designed by
John Kiapos

first rendering: September 5, 1991

This device is designed to slice away tissue specimens minimizing damage to surrounding tissue especially when removing tissue from the heart. Conventional means have employed a sharpened clamping jaw which plucks the tissue damaging the surrounding area.

This device is disposable and pre-assembled, consisting of a small arced razor blade mounted in a hollow plastic cutting head, connected to a plastic spindle.

To use, simply slide the spindle slicer all the way into a surgical access tube, pressing the cutting head against the tissue. Applying slight pressure, spin the stem between the thumb and index finger no more than three quarters of a turn while releasing pressure and lifting out.

The specimen will be cut and chambered in the hollow area above the cutting head.

An optional resistor can be attached to one end of the blade and current provided to same and the other end of the blade to effect heat and coagulate.

