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72228 - PexyEazy® - A New Surgical Device For Treatment of Hemorrhoids
Johan Ungerstedt

Introduction: PexyEazy® is a novel surgical device for the treatment of grade II and III hemorrhoids based on mucopexy.

Method: The PexyEazy® device semi-automatically positions sutures above the internal hemorrhoids. By a special proctoscope, the position of the surgery area is set in relation to the dentate line, to ensure minimal pain. The PexyEazy® device is a special proctoscope, with three longitudinal openings at 3, 7, and 11 o’clock. Each opening consists of 5 indentations. When vacuum suction is applied the mucosa is sucked into the indentations which folds the mucosa. Double needles are thereafter pushed through the mucosa and the needle dock with sutures stored at the tip of the device. When the needles are withdrawn, loop of sutures are introduced through the folded mucosa. After removing constituent parts, knots are applied and the hemorrhoids are lifted inwards, which makes them to swell down, and symptoms disappears.

In proof of principle experiments, PexyEazy® was applied on 12 anesthetized pigs, whereafter the rectum was removed for examination.

Result: PexyEazy® procedure was performed in less than 10 minutes. No major bleedings were observed, but small mucosal hematomas were detected. 26% of mucopexy had a rift in the mucosa closest to the dentate line. The mean lifting effect was 27mm.

Discussion: Mucopexy performed with PexyEazy® has a lifting effect similar to PPH (20-30mm). The mucosa rifts indicate that the mucopexy exerts its lifting effect at hemorrhoidal level. The minimal invasiveness, small diameter of the device and short procedure time may enable surgery without general anesthesia.