

**NEW TECHNIQUES IN
ENDOCRINE SURGERY:
IS MINIMALLY INVASIVE BETTER**

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**Is Minimally Invasive Thyroid
Surgery Better?**

**Is Minimally Invasive Parathyroid
Surgery Better?**

**Is Minimally Invasive Adrenal
Surgery Better?**

Thyroid

Gagner and Inabet - Endoscopic thyroidectomy
(solitary nodules)

Miccoli - Video-assisted thyroidectomy (nodules, cancer)

Ikedd - Endoscopic axillary approach

Ohgami - Endoscopic breast approach

Parathyroid

Tc-99m-sestamibi and SPECT imaging

Rapid Intraoperative PTH assay

Parathyroidectomy under local anesthesia

Radioguided parathyroidectomy

Videoscopic parathyroidectomy

Adrenal

Traditional approaches (open)

Anterior

Flank

Posterior

Thoracoabdominal

Laparoscopic Adrenalectomy

Endocrine pancreas

Laparoscopic enucleation

Laparoscopic distal pancreatectomy