Laparoscopic surgery today and in the future
HISTORY OF THE LAPAROSCOPY SURGERY

1911 Hans C. Jacobeus – thoracoscopy, explorative laparoscopy, liver inspection, tuberculosis

1934 John C. Ruddock – trocars, peritoneoscopy, biopsy (Kassel, USA)
1938 J. Veress (Hungary – needle for the tuberculosis treatment)
1970 Kurt Semm – laparoscopic surgery in gynaecological department, insufflator, 1980 – laparoscopic appendectomy (Kiel)
HISTORY OF THE LAPAROSCOPIC SURGERY

1983 Philippe Mouret – appendectomy
1987 - cholecystectomy (Lyon)

1985 Erich Mühe – cholecystectomy (Nurnberg, Erlangen)
Advantages of the laparoscopy

➢ Better cosmetic effect
➢ Less pain
➢ Lower infections rate of the wound
Advantages of the laparoscopy

- Shorter hospital stay
- Less postoperative immunosupression
- Faster return to work
- Less cost
Progress in laparoscopy

- 1911 diagnostic laparoscopy - Jacobeus
- 1970 release of adhesions - Semm
- 1980 appendectomy - Semm
- 1985 cholecystectomy - Muhe
- 1991 colectomy - Jacobs, Lacy
- 1991 fundoplication - Dellamange, Perissat
- 1991 splenectomy - Delaitre
- 1991 TAPP - Arregui
- 1992 pancreatic tail resection - Gagner
Progress in laparoscopy

- 1992 TEP - Dulucq
- 1992 adrenalectomy - Gagner
- 1994 pancreatic cyst - Frantzides, Gagner, Petelin
- 1994 PPPDX (pylorus preserving pancreatoduodenectomy) - Gagner, Pomp
- 1995 pancreatic necrosectomy - Gagner
- 1996 parathyroidectomy – Gagner
- 2001 Lindbergh operation
Laparoscopy nowadays

„Big surgeon – big incision”

Classical instruments

Laparoscopic instruments
Laparoscopy nowadays
laparoscopic equipment
Laparoscopy nowadays

Gallbladder and bile ducts surgery
Laparoscopy nowadays

Surgery of the liver (cysts, tumors, metastases)
Laparoscopy nowadays
Appendectomy
Laparoscopy nowadays

Splenectomy
Laparoscopy nowadays

Stomach surgery

Laparoscopic suture of the perforated ulcer
Laparoscopy nowadays

Stomach surgery

gastric resection – total or partial (benign tumors, gastric cancer)
Laparoscopy nowadays

Stomach surgery
GERD, fundoplication, hiatal hernia
Laparoscopy nowadays

Bariatric surgery
Gastric banding
Laparoscopy nowadays

Bariatric surgery

Gastric bypass, sleeve gastrectomy
Laparoscopy nowadays

Adrenalectomy
Laparoscopy nowadays
Pancreatic surgery – resection, insulinoma enucleation
Laparoscopy nowadays

Pancreatic surgery – VARD – video assisted retroperitoneal debridement
Laparoscopy nowadays

Colon surgery
Laparoscopy nowadays

Rectal surgery – total mesorectal excision (TME), abdominoperineal resection (APR)
Laparoscopy nowadays

Thoracoscopy

Sympathectomy
Laparoscopy nowadays

Thoracoscopy

Raynaude Syndrome
Laparoscopy nowadays

Minimal invasive thyroid resection
Laparoscopy - perspectives
Single port laparoscopic surgery
Laparoscopy - perspectives

NOTES
Laparoscopy - perspectives

Robotic surgery