Aesculap Academy Croatia & University Hospital “Sestre Milosrdnice”

Excellence in Endoscopy Education

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The History of medical education at University Hospital “Sestre Milosrdnice”

- 1846 As a part of “Sestre Milosrdnice” Convent, Hospital was founded;
- 1871 New Location and bigger space with 2 departments: Surgery and Internal Medicine; it had gas lighting and central heating
- 1901 First X-RAY device (6 years after first x-ray images)
- 1917 Čačković, Mašek, Wickerhauser (hospital employees) became the first professors of the newly founded Medical University in Zagreb
- 1917 Čačković named as the first Dean
Today:

- Includes 1 University Hospital and 2 Clinics
  - UH “Sestre Milosrdnice”
  - Clinic for Tumors
  - Clinic for Traumatology

- Reference Centers of Health Ministry

Teaching Base:

- School of Medicine University of Zagreb
- School of dental Medicine University of Zagreb

Partnership Model:
Longterm cooperation of Aesculap Academy with University Hospital that offers essential infrastructure, history, respectable lecturers and medical experts well known in the region.

Surgery Clinic:
- **Infrastructure**: 60m2 of space with lab inside the Surgery Clinic
- **Expert and Scientific “know how”**: instructors, respectable teachers, knowledge, experience

Aesculap Academy
- **Infrastructure**: 4 working stations equipment
  (4 Aesculap endo towers, instruments, didactic models and educational materials)
- **Setting up the Standards** – course concepts and structure
- **Course Management**: organization, marketing activities
Aesculap Academy - Global partner for “state-of-the-art” medical trainings and courses

Aesculap Academy,
well known today as the global symbol in medical education, founded as a part of medical company B. Braun (1995) and as the brand dedicated to training and education of medical professionals all around the world.
Global network – Satellites worldwide in 2013

- Germany: Tuttlingen, Berlin, Bochum
- Korea, Seoul
- China, Shanghai, Beijing
- Taiwan, Taipai City
- Philippines, Taguig City
- Vietnam, Ho Chi Minh City, Hanoi
- Malaysia, Kuala Lumpur
- Singapore
- Australia, Bella Vista
- USA, Center Valley
- Belgium, Diegem
- UK, Sheffield
- Netherlands, Oss
- France, Boulogne-Billancourt
- Switzerland, Sempach
- Spain, Rubi
- Austria, Maria Enzersdorf
- Croatia, Zagreb
- Czech Republic, Praha
- Slovak Republic, Bratislava
- Hungary, Budapest
- Romania, Timisoara
- Russia, St. Petersburg, Nowosibirsk
- Poland, Nowy Tomysl
- Finland, Helsinki
- Sweden, Danderyd
- Italy, Milano
- France, Boulogne-Billancourt
- Germany: Tuttlingen
- Mexico, Mexico City
- Colombia, Bogota
- Ecuador, Quito
- Peru, Lima
- Chile, Santiago
- Brazil, Sao Goncalo
- Argentina, Buenos Aires
- South Africa, Johannesburg
- South Africa, Colombo
- Indonesia, Jakarta, Bali
- Thailand, Bangkok
- Malaysia, Kuala Lumpur
- Singapore
- Australia, Bella Vista
- Center of Excellence
- Regional hub for Asia / Pacific
- Satellites
Scientific Independence and Quality are insured by….

Implementation of principles in every local Academy:

- Course concept must include **structured, repeated modules** instead of isolated course concepts

- **Practical training is a “must”** for every course

- **Scientific approach** must be accredited from Medical Chambers and/or Societies

- **The Opportunity for registration and participation** must be open for every medical expert and any other party interested (other medical and farmaceutical companies)
Quality is measured through several instruments:

- **CME accreditation** (Croatian Medical Chamber)
- **Recommendations, Endorsements and certification** from Societies and Associations
- **Course Evaluation:**
  - Attendants
  - Centers of Excellence (Berlin & Tuttlingen & Bochum)
  - Lecturers
- **Local Scientific Board** - approves teachers, themes and methodology
Concept: Basic Laparoscopic Course of Aesculap Academy

- **3 day course - 25 hours:**
  15 hours of practical exercises

- **Target Group of participants:** Residents and younger specialists

- **Number of participants:** 8 (2 at each working station)

- **Language:** Croatian (optional: English)

- **Accreditation:** 15 points (CME) Croatian Medical Chamber (Maximum points as the 1st Category Course)

**Course Goal:**
After the Course participant should be enabled to perform on his/her own laparoscopic appendectomy, cholecystectomy and perforated gastric ulcer suturing

**Test/Certificate:**
Successfully performed appendectomy and cholecystectomy as well as perforated gastric ulcer suturing on animal model
Teoretical Knowledge :

- Basic level of knowing endoscopic equipment, instruments and safety during the use of electrosurgical platform and high frequency electricity

- Basic laparoscopic procedures: cholecystectomy, appendectomy hernia treatment (anatomy, pathophysiology, diagnosis, treatment)

- Taking care of complication

- Short introduction on advanced laparoscopy
Practical skills:

- Camera orientation and eye-screen coordination (0°, 35°)
- Endoscopic suturing techniques – under direct eye control and while using camera
- Safety working techniques while using high frequency electricity
- Laparoscopic appendectomy and cholecystectomy techniques first in pelvitrainer then on animal model (victimage pig)
- Pneumoperitoneum – techniques of maintaining
- Techniques of assisting
1. Basic laparoscopic course

1. day:
- Safe using of instruments and equipment
- Orientation exercises
- Basic hand skills
1. day:
   - Endoscopic suturing techniques
2. day:

- OR Assisting
- Simulation of lap. cholecystectomy (animal model - pelvitrainer)
- Simulation of lap. appendectomy (animal model - pelvitrainer)
- Simulation of hernia repair
- Simulation of lap. perf. gastric ulcer suturing
3. day:

Animal model (pig):
- Lap. cholecystectomy
- Lap. appendectomy
- Lap. perf. gastric ulcer suturing
- Lap. TAPP hernia op.
Future plan(s)

Planned:
✓ Primary Wound Processing and Suturing
✓ Basic Laparoscopic Course (2x)
✓ Advanced Course of Endoscopic hiatal, incisional and inguinal hernia surgery
✓ Operations in Gynaecology and Obstetrics – Basic and Advanced Course

Considering:
✓ Hiatal Hernia & GERD, Basic Bariatric Procedures
✓ Implantation of Acess Ports
✓ Peadiatric Laparoscopy
✓ OR Nurses
✓ .......
Conclusion:

Final goal:
general development and advancement of endoscopic surgery in Croatia and region as well

Philosophy and Vision

- Insisting that every resident that attends the course should be provided with as much as possible **practical exercises and experience** – that will contribute in number and variety of endoscopic procedures in Croatia

- **Become Regional center of excellence for education of minimally invasive surgery procedures**

- **Expand** Academy Programme to other important and actual surgical themes

- Possibility of conducting Courses in English / International Cooperation
THANK YOU FOR YOUR ATTENTION!