

# SURGICAL COURSES AT THE INSTITUTE OF ANATOMY AND MUSCULOSKELETAL RESEARCH

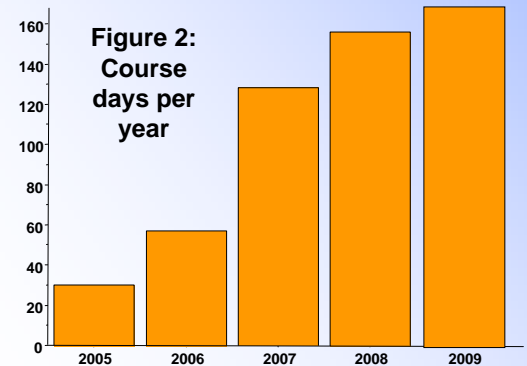


## MOTIVATION

- Due to the rapid development of medical technology and life sciences, there is a great demand for continuing medical education programs to keep up with medical progress.
- The PMU offers programs leading to the degree of medical doctor in „Human Medicine (MD)“, degrees in „Nursing, Nursing Sciences“, a doctoral degree of „Science in Medicine“, a PhD in „Molecular Medicine“. Further, PMU is involved in high quality postgraduate educational training courses, which are organized as occupation-accompanying programs, in Palliative Care, Wound Care Management, Nursing Management, and Health Care Management. .
- At the Institute of Anatomy there is a high demand for professionally organized courses in which
  - ✓ anatomical structures are viewed and anatomical knowledge is refreshed by the dissection of specimen
  - ✓ physicians have the opportunity to learn new surgical procedures and the handling of surgical equipment needed for these procedures on specimen: for example, surgical interventions for fractured vertebrae by inserting synthetic materials (kyphoplasty, vertebroplasty), surgical procedures on intervertebral discs, arthroscopy, or endoscopy
  - ✓ Since 2005 the Institute of Anatomy offers physicians and medical product companies a platform for the organisation of professional educational and surgical courses

## HISTORY AND CURRENT STATUS

- Completion of dissection lab in the main building of the PMU in 9/2004 (Fig. 1)
- First surgical course in the dissection lab in January of 2005; 30 course days that year (Fig. 2)
- Purchase of 3 C-arms (Fig. 3); 60 days of surgical courses in 2006
- Assembly of a surgical course team and development of comprehensive on-site service for clients
- Opening of the simulation center in the Hansjörg Wyss building in the fall of 2007 and use as surgical course center for C-arm based interventions (C-arms lab; Fig. 3); 130 course days in 2007
- 160 surgical course days in 2008 and 170 course days in 2009
- Thus, training of approximately 8000 people at PMU over 5 years



## EQUIPMENT & SERVICE

### EQUIPMENT

- ✓ Air conditioning and efficient ventilation system
- ✓ Dissection table drain channels, adjustable dissection tables, surgical equipment tables
- ✓ Surgical lamps and video camera for master table (Fig. 1)
- ✓ Audiovisual equipment incl. beamer (visual transmission possible from PC, videocamera or arthroscopic/endoscopic surgery)
- ✓ C-arms and lead aprons (Fig. 1 und 3), X-ray permeable dissection tables

### SERVICE

- ✓ Exact and individual planning of the courses
- ✓ Conference room service
- ✓ Allround -catering

## COOPERATIONS & DEVELOPMENTAL PERSPECTIVES

- Currently cooperation with approx. 20 partners, among these 12 international top medical product companies
- As a result, more than 6000 overnight stays per year in Salzburg (organizers of courses, participants and faculty)
- Body donation system for Salzburg installed since 7/2009
- **We are planning to expand our surgical course program through:**
  - Set-up of a constructionally optimized surgical course center
  - Involvement of modern computer-simulated techniques
  - Individually designed anatomical training courses (Advanced medical education)



Figure 1: Dissection lab

Figure 3: C-arm lab