Acquisition of surgical skills

- Technical skills are important in surgical training
- Traditional apprenticeship is not an ideal training model
- Training with humans involve ethical issues
- Dependent on the availability of patients
- Stressful situation in the operating room
Acquisition of surgical skills

- Technical skills can be acquired in a more controlled environment with
  - models
  - simulating programs
  - animal models
  - cadavers

Need for a centre for surgical skills training

- Controversial to start new procedures straightly in humans
- Increased complexity of operations
- Emergence of new surgical techniques: laparoscopic operations and other minimally invasive procedures
Animal experiment

- An animal model is important in the training and development of complicated surgical procedures, e.g. liver transplant.
- One of the models in the training of laparoscopic and endoscopic surgery.
- An important role in research in new and novel surgical procedures, e.g. natural orifice surgery, before applications in human.
Animal Experiment Laboratory
Department of Surgery

Development of a Surgical Skills Centre

Background

- An up-to-date surgical skills centre is needed for training and research in surgical skills

- The Animal Experiment Laboratory was not up to the current standard in the training of minimally invasive surgery
Development of a Surgical Skills Centre

- A centre for training using models, stimulators and animal experiments
- State-of-the-art facilities for laparoscopic and endoscopic skills training
- A lead-shielded area for training involving fluoroscopy e.g. vascular and cardiac procedures
- Audio visual connection allowing telecommunication

Surgical Skills Centre

- Donation from generous donors
- Renovation of the old animal experiment laboratory into an area of 5300 square feet
- 10 training stations equipped with up-to-date laparoscopic and endoscopic equipment for animal experiments
- A lead-shielded area for training and research using fluoroscopy
Surgical Skills Centre

- Completed in April, 2011
- Courses in laparoscopic skills and trauma have been organized
- Aims to provide better training for doctors, students and other medical personnel
- Allows advanced research in many subspecialties of surgery