### Kurzzusammenfassung

Interventional radiology (IR) is a fascinating field of medicine that combines image-based diagnosis and minimally-invasive therapies. Its history counts from first Dotter’s angioplasty in 1964 that he commented “it should be evident that the vascular catheter can be more than a tool for passive means for diagnostic observations: used with imagination it can become an important surgical instrument.” IR radically changed the management of patients with various diseases through the use of minimally invasive interventional procedures. Nowadays, interventional radiologists play a major role in the treatment of cardiovascular diseases, trauma, cancer, and many other pathologies. About 1/3 of the diseases managed previously with surgery is now accomplished less invasively with IR methods. Rapid expansion of this specialty and the adoption of its novel techniques by other specialists like cardiologists, vascular surgeons, neurosurgeons generate a threat to IR. There is a need to relegate to the past the procedure-driven model and replace it with a concept that should be clinically based. Therefore IR specialists are not only expected to take care of patients during procedures but also become active partners in their clinical management. To fulfil these expectations a new IR training curriculum for the next generation of interventional trainees has to be developed. IR will continue to grow opening further opportunities for the minimally invasive treatment of the patients. Its future depends on innovation, laboratory research, clinical investigation and will be determined by the results of further research. The evidence-based medicine is already and will in the future dominate the clinical arena. It can be predicted that simulation and robotics will gain a significant position and image-guided application of gene therapy will play an increasing role in interventional therapies.

### Lernziele

- To learn about current status of IR
- To be aware of the challenges facing this rapidly evolving profession
- To understand the need for changes in IR training curriculum
- To be familiar with the factors that influence the development of IR