
Osteosynthesis for Surgical Management of Fractures for Orthopedic Surgeons and Biomedical Engineers

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Priorities and needs

- European eHealth strategy
- Needs of target groups:
  - increased pressure by patients and patient organizations to improve quality and prevent errors;
  - continuous introduction of new surgical techniques and implant models, many of them being not well known to surgeons;
  - need of better trained professionals able to address the growing demand in the field.

Target groups

- Residents in orthopaedics and orthopaedic surgeons who need to update their knowledge on issues related to the surgical techniques of osteosynthesis;
- Engineers in mechanics needing knowledge and skills in biomechanical engineering for working in the development and manufacture of osteosynthesis implants.

Objectives

1. Identifying and analysing the needs of biomedical labour market, of biomedical engineers, orthopaedic surgeons, managers, residents in the sector.
2. Selecting and adapting the e-learning innovative content to meet these needs and upgrade the content with the new developments in the sector.
3. Adapting, upgrading and implementing the Osteoform e-learning materials to the legal framework, training system, and language in Bulgaria and Greece and to the needs of the target groups in all partner countries.

OSTEOform system

- Specialized training courses:
- A database of anonymized clinical cases.
- A virtual community of skilled professionals (discussion boards, chats, faqs, blogs, etc).
- Usage of the simulation services with generic implants.
- A tool to practice bone fracture analysis

http://campus.ibv.org

e-learning courses

- Biomechanical analysis of bone in terms of its structure
- Biomechanical fracture study
- Skeletal adaptation to functional stimuli
- Surgical fracture repair
- Principles of Surgical Treatment of Fractures
- Errors in Osteosynthesis
- New tendencies in Orthopaedic Surgery and Traumatology