

on ERGONOMICS for ORTHOPAEDIC MINIMALLY INVASIVE SURGERY

50 hours

10th October 2016-30th November 2016

What is TRAIN4ORTHOMIS?

The idea of the TRAIN4ORTHOMIS course is to assure surgeons a worthy education and training along their professional career regarding ergonomics and usability applied to orthopaedic Minimally Invasive Surgery of hip and spine.

Objectives

The primary aim of the course is to give student needed knowledge of:

- ✓ Ergonomics rules of how to adjust operating environment to human features and physical predispositions of surgeons and nurses
- ✓ Recognizing and minimizing the risk factors associated with work-related musculoskeletal disorders (WMSDs)
- ✓ Selecting ergonomically appropriate surgical tools and equipment
- ✓ Optimizing workflow and surgical team interactions during orthopaedical procedures.

The second aim is to develop the needed skills and competences to use this knowledge to create and maintain ergonomic working conditions while performing spine and hip orthopaedical procedures.

Contents

MODULE I - INTRODUCTION TO THE ERGONOMICS IN MIS SURGERY

- Session 1 - Ergonomics: concept, fields of application in surgery and problems related with the lack of ergonomics
- Session 2 - Ergonomics studies and technologies in MIS
- Session 3 - Ergonomics guidelines for orthopaedic surgery

MODULE II - ERGONOMICS IN HIP SURGERY

- Session 1 - Introduction to HIP surgical procedures
- Session 2 - Ergonomic considerations for total hip replacement of traditional approach (THR)
- Session 3 - Ergonomics considerations for minimally invasive surgery of total hip replacement
- Session 4 - New surgical approaches, tools and technologies

MODULE III - ERGONOMICS IN SPINE SURGERY

- Session 1 - Introduction to Spine surgical procedures
- Session 2 - Ergonomics considerations for minimally invasive dorsal stabilization
- Session 3 - Ergonomics considerations for minimally invasive ventral stabilization
- Session 4 - New surgical approaches, tools and technologies

MODULE IV - CASE STUDIES

- Session 1 - Operating room setting and environmental conditions in HIP MIS surgery
- Session 2 - Operating room setting and environmental conditions in SPINE MIS surgery

Tutors

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| ➤ Esther Morcillo | ➤ Raquel Portilla | ➤ Peter Augat | ➤ Joanna Bartnicka |
| ➤ José Luis Moyano | ➤ Alicia Piedrabuena | ➤ Jaroslaw Tokarczyk | |

Organizers