Elaborating Training Requirements for European Radiation Oncologists
3. ed. of the European CC in Radiotherapy & Radiation Oncology

1991: 1st ESTRO CC based on knowledge

2002: 2nd CC (update of CC from 1991)

2008: Based on a general call, a work-group with a broad background was formed

2010: Finalized curriculum accepted by ETC

2011: 3rd CC, based on competencies presented to the radiotherapy community
Endorsed by 28 European countries and the UEMS
Knowledge, skills and competences

Radiation physics applied in radiation therapy (RT)
Outlines the design and explains the mechanism of action of an X-ray tube (comprehension)
Describes the design and explains the mechanism of action of a linear accelerators (comprehension)
Describes specialized collimating systems (knowledge)
Describes brachytherapy systems (knowledge)
Outlines the design and explains the mechanism of action of a cyclotron (comprehension)
Defines, explains and discusses absorbed dose distributions (comprehension)
Describes treatment planning including 3D planning, virtual and CT simulation and applies these procedures to plan patients’ treatments (application)
Evaluates the benefits of conformal and special radiotherapy techniques (IORT, stereotactic radiotherapy) (evaluation)
Defines target absorbed dose specification in external RT knowledge

Learning Outcomes
10. Able to develop a radiotherapy treatment strategy and technique

Knowledge
Knows the radiotherapy modality and possible beam arrangements
Knows the patient position and immobilization technique
Knows the method of tumour localisation

Skills/Expertise
Able to communicate effectively to the planning radiographers and physicists the imaging and treatment technique and document all aspects of the planning process clearly

Define a treatment
Define organs at risk and normal tissues
Define DVH based 3D planning constraints

Critically assess the dose on within the treatment plan and organs at risk
Identify whether a treatment plan is adequate and within the constraints
Take responsibility for the treatment plan
Knowledge, skills and competences

Fig 1 – Hierarchy of the cognitive domain

Brief practical assessments (miniCEX)

Feedback based on observations at the work place

360° feedback/MSF

Portfolio and logbook

Progress interview
Key successful factors

- Mutual trust and acknowledgement
- Exchange of view-points
- A wish for a common understanding
- Not made in an ivory tower
- One product supported by all opinion leaders
Collaboration is a powerful tool

Collaboration between ESTRO and UEMS secure:

- A broad back-up from the RO community
- A broad connection to all countries involved
- A connection to UEMS opinions and directives
- A basis for implementation through ESTRO
- Baseline educational programme linked to the CC
- Symposia/workshops at ESTRO meetings
- ETC Support for the development of assessment