

### A platform for IGRT Education

### What is IGRTOnline?

The IGRTOnline website is an online platform for education and interaction on Imageguided Radiation Therapy

### What's on this website?

The course currently available on this website is called **Image Guided Radiation Therapy: Principles and Practice**.

This is a course on the concepts, techniques and clinical applications of Image Guided Radiation Therapy. The course allows self-paced learning with interactive teaching material, guizzes and assessments.

### Who is this course for?

This course is mainly aimed at radiation oncologists and radiation therapists who are new to IGRT. It is meant to be a starter course, to get an overview of the concepts and techniques. It is not ideal for advanced users, although anyone is free to enrol.

# What's special about this course?

- It comprehensively covers the key concepts
- It allows you to learn at your own pace, at your own time.
- It is interactive
- Explains concepts with illustrations and animation
- Allows self-assessment with numerous quizzes
- It is completely free

### **Course Modules**

### **Section 1: Principles of IGRT**

- 1.1 An Introduction to IGRT
- 1.2 Errors and Uncertainties in Radiation Therapy
- 1.3 Understanding PTV Margins
- 1.4 The role of immobilization in IGRT
- 1.5 Offline and Online Correction Strategies

## Section 2: The Tools and Techniques of IGRT

- 2.1 Image Fusion for Radiation Treatment Planning
- 2.2 In-room Planar X-ray based IGRT
- 2.3 In-room CT based IGRT
- 2.4 Ultrasound based IGRT
- 2.5 Electromagnetic Tracking
- 2.6 Respiratory Motion Management

#### **Section 3: IGRT in Clinical Practice**

- 3.1 IGRT for Intracranial Lesions
- 3.2 IGRT for Head and Neck Cancers
- 3.3 IGRT for Breast Cancer
- 3.4 IGRT for Lung Cancer
- 3.5 IGRT for Upper Gastrointestinal Cancer
- 3.6 IGRT for Lower Gastrointestinal Cancer
- 3.7 IGRT for Prostate Cancer
- 3.8 IGRT for Cancers of the Uterine Cervix