Eclipse Biological Optimization/Evaluation

Duration
Depending on the experience level of the recipient (remote - up to 4 hours).

Target audience
Radiation Oncologists, Medical Physicists, and/or all individuals intending to produce biologically optimized treatment plans using the Eclipse Treatment Planning system.
Recommended Group size: Up to 6 people.

Prerequisites
Participants should have a working knowledge of the Eclipse Treatment Planning system and the principles of inverse planning techniques. (A basic understanding of radiobiology would also be an advantage.)

Aim
To ensure the participants have an understanding of the Radiobiological Optimization and Evaluation modules in the Eclipse Treatment Planning system to ensure safe and effective use. After the course the participant will be able to use these modules to create biologically optimized plans, compare and evaluate the biological effect of different plans.

Program
• Introduction and basic principles of Radiobiology: Linear-quadratic (LQ) model and fractionated delivery, Tumor control probability, Normal Tissue Complication Probability.
• Description of Radiobiological tools in Eclipse: Biological optimization (models applied to create biologically optimized treatment plans) and Biological evaluation (models applied to existing treatments plan to assess the radiobiological effect).
• Demonstration of the workflow to create biologically optimized plans, and to evaluate and compare plans in different scenarios (e.g. altered fractionation, composite plan, treatment gaps).

For further information please contact your local office.

EMEIA Course Information can be found on www.varian.com/emea-trainings