

AbstractID:9733 Title : Experience with IGRT Research, Development, and Clinical Implementation

At one point or another, almost everyone has recognized a problem and generated ideas they believe would improve clinical practice. In essence, this is what drives the desire to generate technical and clinical research, and translate findings into clinical practice. Some ideas become "practice changing" when the problem is important enough; the idea is compelling; and the right combination of skills, resources, and motivation are brought to bear. Geometric uncertainty in radiation therapy delivery represents an important problem and a fertile area of investigation that captures imaginations in clinical practice, academic research, and industry. This presentation will relate some experiences of participating in the development of image-guided radiation therapy (IGRT) solutions.

Learning Objectives:

1. To demonstrate the importance of a team approach in making research ideas into clinical practice.
2. To illustrate some essential lessons learned from IGRT research and development.
3. To review some common institutional practices used to assess patient safety and the protection of ideas.