



Jewish General Hospital  
Lady Davis Institute for Medical Research



## ***"Low cost external beam radiotherapy machine design considerations"***

**Jericho O'Connell, PhD**

Department of Radiation Oncology  
Dana-Farber Cancer Institute & Harvard Medical School  
Boston, Massachusetts

### **Abstract**

The goal of this project was to create two non-coplanar, stereotactic ablative radiotherapy (SABR) lung patient treatment plans compliant with the Radiation Therapy Oncology Group (RTOG) 0813 dosimetric criteria using a simple, isocentric, therapy with kilovoltage arcs (SITKA) system designed to provide low cost external radiotherapy treatments for low- and middle-income countries (LMICs). During the seminar I will talk about the treatment planning performed and the imagined workflow for this device.