The field of radiation oncology is constantly evolving with continuous technological advances.

One of these advances is stereotactic body radiation therapy (SBRT). This is the delivery of high dose radiation, outside of the cranium, delivered in a single or multiple fractions. This is performed using appropriate equipment with multiple narrow beams delivered through noncoplanar isocentric arcs. SBRT has been applied to multiple sites including tumors of the spine, lung, liver, pancreas and prostate.

This lecture will focus on SBRT treatment of the lung. We will review the clinical background and imaging of lung cancer patients and review the rationale for treating lung cancer with SBRT. We will review the techniques and finally, the ongoing research on SBRT to the lung.

Educational objectives include a review of the following:

- Epidemiology of lung cancer
- Workup of lung cancer
- Staging of lung cancer
- Screening for lung cancer
- Imaging review
- Treatment options for early stage lung cancers
- SBRT lung publications
- SBRT technique
- SBRT toxicity
- SBRT ongoing trials