



NRG Proton SBRT Workshop

April 11, 2022



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NRG Oncology



Purpose

- Who we are: NRG Proton SBRT Working Group
- Our goal: Build consensus guidelines for proton SBRT treatment for lung and liver
- Our plan: We began with a survey of US proton centers; we will present variable data during this workshop and use discussion with **you**, our participants, to help reach agreement
- Timeline: The project began one year ago; the workshop today is the culmination of our work so far
- Moving forward: 1) Establish consensus, 2) Publish survey data, 3) Publish updated NRG protocol templates for lung & liver SBRT, 4) study other disease sites (spine, prostate)

Today's Schedule

- 11 am – 12 pm ET: Physics Considerations for Proton Liver SBRT
- 12 pm – 1 pm ET: Physics Considerations for Proton Lung SBRT
- 1 pm – 2 pm ET: Photon vs. Proton SBRT Debate
- 2 pm – 3 pm ET: Physician Perspective on Proton SBRT

This Hour

Physics Considerations for Proton Liver/Upper GI SBRT

Presentation by *Minglei Kang, PhD*

Live Discussion Moderated by *Paige Taylor, MS*



Questions for Physics Discussion

- What are typical prescriptions for liver SBRT (rationale, dose uniformity or dose heterogeneity)?
- What protocols are commonly used for target delineation?
- What is the method of motion management?
- What is the role of IGRT in liver SBRT?
- What future technological improvements would encourage your center to treat more proton liver SBRT (planning, motion, IGRT, etc.)?

Many thanks to:

- Working Group Members
 - Liyong Lin, Chair
 - Jeff Bradley
 - Perry Johnson
 - Minglei Kang
 - Wei Liu
 - Ceferino Obcemea
 - Jatinder Saini
 - Jason Shen
 - Charles Simone
 - Paige Taylor
 - Ying Xiao
- Working Group Members
 - Tiezhi Zhang
 - Jun Zhou
- Panelists
 - Kristin Higgins
 - Theodore Hong
 - Fang-Fang Lin
- NRG Support
 - Elizabeth O'Meara
 - Kelly Smith DiEva