I specialize in the medical physics of complex treatments and small-field dosimetry, with vast experience in frameless stereotactic radiosurgery and stereotactic body radiotherapy and an interest in image-guided high-dose-rate (HDR) brachytherapy. My clinical research interests include improving image-guidance in HDR brachytherapy and in-vivo dosimetry to validate new dose calculation algorithms. As a medical physicist, I collaborate closely with physicians to determine the best use of advanced technology for each individual situation and contribute my technical expertise to support our patients' fight against cancer.


J Burmeister, PhD, Z Chen, PhD, Indrin J. Chetty, PhD, S Dieterich, PhD, A Doemer, MS, M M. Dominello, DO, R M. Howell, PhD, P McDermott, PhD, A Nalichowski, MS, J Prisciandaro, PhD, T Ritter, PhD, C Smith, PhD, E Schreiber, PhD, T Shafman, MD, S Sutlief, PhD, Y Xiao, PhD. The American Society for Radiation Oncology’s 2015 Core Physics Curriculum for Radiation Oncology Residents. Intern J of Rad Onc. Biology, Physics. 2016

© 2018 UC Regents