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Primary Appointment:

Radiation Oncology

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Education and Training

1994	M.S., University of Wisconsin, Madison, Wisconsin, Medical Physics
1997	Ph.D., University of Wisconsin, Madison, Wisconsin, Medical Physics

Biosketch

Dr. Katja Langen received her PhD from the University of Wisconsin. Dr. Langen trained as a post-doctoral fellow at the National Accelerator Centre in Faure, South Africa. In 2003, Dr. Langen completed her residency training at the University of California. Dr. Langen came to the University of Maryland from MD Anderson Cancer Center, in Orlando,

Florida, where she was a Senior Medical Physicist. Dr. Langen leads the physics effort at the Maryland Proton Treatment Center.

Research/Clinical Keywords

Organ motion and its impact, Adaptive Radiation Therapy, Proton Therapy

Highlighted Publications

1. Langen KM, Jones D. Organ motion and its management. *International Journal of Radiation Oncology, Biology and Physics*. 50:265-278, 2001.
2. Langen KM, Willoughby TR, Meeks SL, Santhanam A, Levine L, Kupelian, PA. Observations on real-time prostate gland motion using electromagnetic tracking. *International Journal of Radiation Oncology, Biology and Physics*, 71(4):1084-90, 2008.
3. Langen KM, Lu W, Willoughby TR, Chauhan B, Meeks SL, Kupelian PA, Olivera G. Dosimetric effect of prostate motion during helical tomotherapy. *International Journal of Radiation Oncology, Biology and Physics*, 74(4): 1134-42, 2009.
4. Langen KM, Papanikolaou N, Balog J, Crilly R, Followill D, Goddu SM, Grant W, Olivera G, Ramsey CR, Shi C. QA for Helical Tomotherapy: Report of the AAPM Task Group 148, *Medical Physics*, 37(9):4817-4853, 2010.
5. Pukala J, Meeks SL, Staton RJ, Bova FJ, Langen KM. A virtual phantom library for the quantifications of deformable image registration uncertainties with cancer of the head and neck, *Medical Physics*, 40(11):111703-1, 2013.

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