

Alon Witztum, DPhil



Educational Background

Medical Physics Residency, University of California, San Francisco, Department of Radiation Oncology (2017 - 2019)

DPhil, University of Oxford (UK), Oncology (2017)

MMP, University of Pennsylvania (US), Medical Physics (2014)

BSc MPhys, University of Warwick (UK), Physics (2012)

Awards & Honors

1st Place Young Investigator Award, AAPM Spring Clinical Meeting (2017)

2nd Place Talk Award, Oxford Annual Oncology Student Symposium (2016)

Santander Academic Travel Award (2015)

MRC Supplementary Funding Award (2015)

MRC/Gray Institute DPhil Scholarship (2014)

Selected Publications and Abstracts

Peer-reviewed articles:

Witztum A, George B, Warren S, Partridge M, and Hawkins MA. **Unwrapping 3D complex hollow organs for spatial dose surface analysis**, Medical Physics, 43(11), 2016

Jones KC, Witztum A, Sehgal CM, and Avery S. **Proton beam characterization by proton-induced acoustic emission: simulation studies**, Physics in Medicine and Biology, 59(21), 2014

Dorsey J, Sun L, Joh D, Witztum A, Al Zaki A, Kao G, Alonso-Basanta M, Avery S, Tsourkas A, and Hahn S. **Gold nanoparticles in radiation research: potential applications for imaging and radiosensitization**, Translational Cancer Research, 2(4), 2013

Oral presentations:

Witztum A, George B, Partridge M, Van Den Heuvel F, Maria MA. **Spatial dose-surface map visualization for hollow organ dose evaluation**, AAPM Spring Clinical Meeting, March 2017

Witztum A, Holyoake D, Warren S, Partridge M, Hawkins MA. **Duodenal interfraction motion with abdominal compression**, AAPM Annual Meeting, Med Phys 43 (6), 3340-3340, 2016

Witztum A, Warren S, Partridge M, Hawkins MA. **A method of unwrapping 3D complex hollow organs for spatial dose surface analysis**, AAPM Annual Meeting, Med Phys 42 (6), 3706-3706, 2015

Ding X, Witztum A, Liang X, Reiche M, Lin H, Teo B, Yin L, Fiene J, McDonough J, Kassae A. **3D printer application in proton therapy: A novel method to deliver passive-scattering proton beams with a fixed range and modulation for SRS and SRT**, AAPM Annual Meeting, Med Phys 41 (6), 514-514, 2014

Kassae A, Ding X, McDonough J, Reiche M, Witztum A, Teo B. **Using 3D printers to create complex phantoms for dose verification, quality assurance, and treatment planning system commissioning in radiotherapy**, AAPM Annual Meeting, Med Phys 41 (6), 515-515, 2014

Ding X, Witztum A, Reiche M, Teo B, Yin L, Lin H, Olszanski A, Fiene J, Kassae A. **Generation and applications of 3D printed patient specific devices for proton therapy**, AAPM Spring Clinical Meeting, March 2014

Poster presentations:

Witztum A, Warren S, Partridge M, Hawkins MA. **Texture analysis for toxicity prediction from dose surface maps**, AAPM Annual Meeting, Med Phys 43 (6), 3486-3486, 2016

Witztum A, Warren S, Partridge M, Hawkins MA. **Feature extraction from duodenal dose surface maps to predict toxicity in pancreatic chemoradiation**, ESTRO Annual Meeting, Radiother Oncol 119, S805, 2016

Witztum A, Warren S, Holyoake D, Partridge M, Hawkins MA. **The dosimetric effect of interfraction motion on the duodenum in pancreatic radiotherapy**, ESTRO Annual Meeting, Radiother Oncol 115, S800, 2015

Witztum A, Smyth G, Ingram W, Bedford JL, Mandeville HC, and Saran FH. **Dosimetric effects of setup errors in multi-isocentre VMAT for craniospinal axis**, ASTRO Annual Meeting, Int J Rad Biol Phys 90(1), S838-839, 2014

Ding X, Witztum A, Kenton O, Younan F, Dormer J, Kremmel E, Lin H, Liu H, Tang S, Both S, Kassaei A, Avery S. **A feasibility study of using modified AP proton beam for post-operative pancreatic cancer therapy**, AAPM Annual Meeting, Med Phys 41 (6), 224-224, 2014

Dormer J, Witztum A, Ding X, Jin P, Zhu T. **IMRT Verification using the on-board EPID**, AAPM Annual Meeting, Med Phys 41 (6), 335-335, 2014

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