

Randall W. Holt, PhD

After receiving his Ph.D. in Biomedical Engineering specializing in 3D-image analysis from Case Western Reserve University, Randy Holt received post-doctoral training at the USC Department of Radiation Oncology specializing in virtual simulation and 3D dosimetry software. He then took over as Director of Medical Physics for SSGI/Prowess in Chico, CA where he developed virtual simulation and permanent implant brachytherapy software and continued clinical training and received the ABR certification in therapy physics. Since 2001, he has been the Director of Physics for North Valley Radiation Oncology which provides a broad range of medical physics services to clinics in Northern California including the Department of Radiation Oncology at the UC Davis School of Veterinary Medicine. In December of 2009, the NVRO Physics Division was spun off into a separate entity, Pacific Crest Medical Physics. Until his retirement from clinical duties in Jan 2021, Dr. Holt was President and CEO of this small group of six consulting medical physicists. In 2004, he also became CEO for Prodigm which has an FDA cleared IMRT-QA secondary check software product. Besides leading the clinical physics group, he currently provides clinical medical physics consulting services to several commercial radiation therapy companies including Standard Imaging and iCad-Xoft as well as a few startup companies that are at the pre-FDA submission stage. In June of 2009, as the Clinical Director of Medical Physics for Xoft, Dr. Holt was the primary consulting physicist for a novel skin cancer treatment of a White Indian Rhinoceros performed on site at the LA City Zoo. As part of their clinical physics oversight at the UC Davis School of Veterinary Medicine his group has helped maintain a level of clinical science at or above the treatments available in most human clinics in the US including IMRT, SBRT and SRS on the veterinary TrueBeam accelerator installed in 2013. He holds several active patents and is primary or co-author on numerous papers and presentations.