



# **Tatiana Midori Martins Telles Alves: Brazil**

## **Supporting the Qualification of Human Resources in Advanced Radiotherapy Techniques.**



Mrs. Tatiana Midori Martins Telles Alves of Brazil underwent training at Washington University School of Medicine in St. Louis, MO, USA, as a participant in the IAEA Fellowship Program. In Brazil, Mrs. Alves has been working at the SÍrio-Libanês Hospital since 2010 as a physicist at the Department of Radiotherapy. She performs activities such as teletherapy planning (including conformal radiotherapy, intensity modulated radiotherapy, volumetric modulated arc therapy, stereotactic cranial radiotherapy and radiosurgery, stereotactic body radiotherapy and radiosurgery), patient specific quality control for intensity modulated radiotherapy planning, image-guided radiotherapy techniques, high dose rate brachytherapy planning, iodine-125 seeds permanent implants brachytherapy planning for prostate tumors, mechanical and dosimetric accuracy monitoring of the linear accelerators and participation in continued education of new

radiotherapy physicists residents. Mrs. Alves' training was supervised by Dr. Eric E. Klein, and consisted of lectures and accompanying clinical physicists in their routine at the Department of Radiation Oncology. The major elements of the training program were: image-guided radiation therapy, motion management in radiotherapy, stereotactic body radiation therapy, Gamma Knife® radiosurgery, brachytherapy, comprehensive quality assurance program, tomotherapy and ViewRay® concepts. The training was very comprehensive and had high quality for its educational and practical aspects. The subjects were addressed by expert physicists, and their wide experience contributed to clear description of the advantages and disadvantages of each topic. This training was all focused on advanced radiotherapy techniques and corresponded perfectly to the professional qualifications required to strengthen a reference center such as SÍrio-Libanês Hospital (Brazil). All the experience and knowledge acquired at this fellowship will be shared with Mrs. Alves' co-workers, fellows, visitors and students through upcoming residency programs, training courses and other events.

**Training period: 01/02/2013 – 02/01/2013**