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More resources and technologies are acquired as part of Phase-2 in modernizing radiotherapy at Hotel-Dieu de France Hospital (HDF).

A second TrueBeam-2.0 system for high-precision image-guided radiotherapy and radiosurgery equipped with the unique “Perfect-Pitch” 6D couch will be installed. The Perfect-Pitch couch, recently released by Varian Medical Systems for medical use, allows for real-time patient repositioning in all translational and all rotational directions, thus ensuring highest accuracy in radiation beam targeting of disease. The radiation oncology center at HDF is the first in Lebanon to acquire the Perfect-Pitch 6D real-time patient repositioning system.

Advanced image-guided radiation therapy (IGRT) and motion management system will be installed. The Advanced IGRT system visually reveals real-time tumor positions in beam-eye-view. Advanced IGRT will be integrated with both TrueBeam systems. This will provide visual and documented assurance of radiation targeting of disease particularly in breathing gated treatments. This assurance would enable highly precise stereotactic ablative body radiosurgery (SABR) - previously not offered in Lebanon. Again, HDF is the first in Lebanon to acquire this state-of-the art image-guidance capability.

A new High Dose Rate (HDR) system will be installed for brachytherapy (internal radiation delivery). This system is used for boosting and/or delivering intense localized radiation internally. HDR is an outpatient procedure and has numerous applications for various anatomical areas, such as uterus, cervix, vagina, bronchus, esophagus, prostate and breast.

Phase-1 completed on February 4 of 2013 comprised the installation of a new TrueBeam-1.6 system and Eclipse-11/Aria-11. Phase-2 is scheduled to go clinical in August 2014. The HDF radiotherapy center is now one step closer to fulfill its mission as a center of excellence in Lebanon and the Middle-East; recognized by our patients for exceptional clinical care.