AUBERT Bernard

France

Email: aubert.pro@laposte.net

Brief Curriculum Vitae

- Since May 2014: Retired and President of the Permanent Group of Experts in Medical Radiation Protection for the French Authority in Nuclear Safety (ASN)
- From November 2003 to April 2014: Head of the medical radiation protection expertise unit at the Institute for Radiation Protection and Nuclear safety (IRSN)
- From 1990 to 2003: Deputy director of the medical physics department at the "Institut Gustave-Roussy", Villejuif (France)
- From 1975 to 1990: Medical physicist in medical imaging and radiation protection at the "Institut Gustave-Roussy", Villejuif (France)
- 1995: Accreditation to supervise research (HDR) - University of Toulouse
- 1975: PhD in medical physics

As Medical Physicist I first worked for 28 years in a cancer center (Institut Gustave Roussy) mainly in the field of medical imaging but also in the radiation protection of workers. So I had the opportunity to contribute to the development of gamma camera manufactured by the French company (Sopha Medical), then to develop the use of the first whole body CT (1978) in radiotherapy and later to install in 2002 a PET-CT. During my time at the IGR I was very involved in the dosimetry linked to the internal radiotherapy in nuclear medicine. Since 2000 I participated in the implementation of the European Directive 97-43 in France and in 2003 I joined IRSN in order to develop the expertise in radiation protection in medical field at national level.

Other activities

- Representative for France in the Dose Datamed 1 and 2 European projects
- Member of WG “Medical Applications” of HERCA
- Convenor of the ISO/TC85/SC2/WG22 “ Dosimetry and Related Protocols in Medical Applications of Ionizing Radiation ”
- Professor at the national Institute of Nuclear Sciences and Techniques (INSTN) since 2002
- Director of the training for qualification in radiological and medical physics in France
- Teacher for high degree training in medical physics, radiation protection, dosimetry in nuclear medicine and radiology.
- Membership of professional bodies: French society of medical physics, French society of nuclear medicine, French society of radiation protection
- Administrator of the French society of radiation protection (SFRP) (1993-2011).
- Administrator of the French society of nuclear medicine (SFMN) (2003-2009).
- Administrator of the French society of medical physics (SFPM) (1983-1989)
- President of the French society of medical physics (SFPM) (1985-1989).

Main publications

- De Sousa, M.C., Aubert, B., Ricard, M. Evaluation of physical performance of a scintillation dosemeter for patient dosimetry in diagnostic radiology, Br J Radiol, 2000, 73, 1297-1305.
- Manil L., Voisin, P., Aubert, B., Guerreau, D., Verrier, P., Lebegue, L., Wargnies, J.P., Di Paola, M., Barbier, Y., Chossat, F., Menkes, C.J., Tebib, J., Devaux, J.Y. and Kaphan, A. Physical and biological dosimetry in patients undergoing radiosynoviorthesis with erbium-169 and rhenium-186. Nuclear Medicine Communications, 2001, 22, 405-416.
- Aubert B. and Lamon A. Passive and operational dosimetry in a nuclear medicine department: one year assessment. 40th Annual Meeting of the Société Française de Physique Médicale, Nantes, June 6-8, 2001. Physica Medica, Vol. XVII, n°2, April-June 2001.
- M'Kacher, R., Violot, D., Aubert, B., Girinsky, T., Dossou, J., Béron-Gaillard, N., Carde, P. and Parmentier, C. Premature chromosome condensation associated with fluorescence in situ hybridisation detects cytogenic abnormalities after a CT scan: Evaluation of the low-dose effect. Radiat. Prot. Dosim. 2003(103):35-39.
- Azzouzi-Idrissi, Aubert, B., M., Chavaudra, J., Ricard, M and Tajmouati, J. Optimizing the use of LiF:Mg,Cu,P (GR-200 P) to measure low dose irradiation in nuclear medicine. Health Phys. 2003, 84(4): 483-491.
- Coulot, J., Ricard, M. and Aubert, B. Validation of the EGS usercode DOSE3D for internal beta dose calculation at the cellular and tissue levels. Phys Med Biol, 2003, 48; 2591-2602.
- Donadille L, Rehel JL, J. Deligne M, Queinnec F, Aubert B, Bottollier-Depois JF, Clairand I, Jourdain JR and Rannou A. IRSN methodological guide to conducting workplace studies in compliance with french regulations. Rad Prot Dos, 2007(124):245–249.
- Donadille L, F. Trompier F, Robbesa I, Derreumaux S, Mantione J, Asselineau B, Amgaroub K, Martin A, Bottollier-Depois JF, Queinnec F, Aubert B and I. Clairand I. Radiation protection of workers associated with secondary neutrons produced by medical linear accelerators. Radiation Measurements, 2008(43):939-943.
- Scanff, P., Donadieu, J., Pirard, P. and Aubert, B. Population dose from medical examinations in France. Br J Radiol, 2008(81):204-213.
- Derreumaux S, Etard C, Huet C, Trompier F, Clairand I, JBottollier-Depois JF, B. Aubert B and Gourmelon P. Lessons from recent accidents in radiation therapy in France. Radiat Prot Dosimetry. 2008(131):130-135.
- Brisse H, Robilliard M, Savignoni A. Pierrat N. Gaboriaud G, De Rycke Y,Neuenschwander S, Aubert B, Rosenwald JC. Assessment of organ absorbed doses and estimation of effective doses from pediatric anthropomorphic phantom measurements for multi-detector row CT with and without automatic exposure control. Health Physics, 2009, 97(4):303-314.
- Sapoval M, Pellerin O, Rehel JL, Houdoux N, Rahmoune G, Aubert B and Fitton I. Uterine Artery Embolization for Leiomyomata: Optimization of the Radiation Dose to the Patient Using a Flat-Panel Detector Angiographic Suite. Cardiovasc Intervent Radiol 2010,33(5):949-954
- Bernier MO, Rehel JL, Brisse H, Wu-Zhou X, Caer-Lorho S, Jacob S, Chateil JF, Aubert B, Laurier D. Radiation exposure from computed tomography in early childhood: a French large scale multicenter study. Br J Radiol 2012,85:53-60.
- P. Roch, B. Aubert. French diagnostic reference levels in diagnostic radiology, computed tomography and nuclear medicine: 2004-2008 review. Radiat Prot Dosimetry 2012,152:1-24.
- C. Étard, B. Aubert. National survey of patient doses from whole-body FDG PET-CT examinations in France in 2011. Radiat Prot Dosimetry 2012,152:1-5.