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Dr. Miller earned a B.A. in Molecular Biophysics & Biochemistry from Yale University in 1972 and an M.D. from the New York University School of Medicine in 1976. He holds Board certification in both Diagnostic Radiology and Interventional Radiology. Prior to joining FDA, he engaged in the clinical practice of interventional radiology for nearly three decades.

He is a Fellow of the Society of Interventional Radiology and of the American College of Radiology, and is an Honorary Member of the American Association of Physicists in Medicine. He has served as a consultant to the International Atomic Energy Agency and the World Health Organization on issues related to radiation protection in medicine.

Dr. Miller was elected to the U.S. National Council on Radiation Protection and Measurements (NCRP) in 2006. He serves currently as Co-Chair of Program Area Committee 4 (radiation protection in medicine), Chair of the Nominating Committee, and as a member or consultant to several Scientific Committees. He was Vice-Chair for NCRP Report No. 168 (Radiation Dose Management for X-Ray Guided Interventional Medical Procedures) and a consultant for NCRP Report No. 172 (Reference Levels and Achievable Doses in Medical and Dental Imaging: Recommendations for the United States).

He became a member of ICRP Committee 3 (Protection in Medicine) in 2010, and since 2013 has served as Vice-Chair of the Committee. He was an author of ICRP Publication 117 (Radiological Protection in Fluoroscopically Guided Procedures Performed Outside the Imaging Department) and Co-Chair for ICRP Publication 120 (Radiological Protection in Cardiology). He currently serves on three working parties of Committee 3.

Dr. Miller has authored more than 180 publications in peer-reviewed journals and more than 30 book chapters and reports. His research interests center on radiation protection in medicine, and include occupational radiation protection for interventional fluoroscopy, patient radiation doses and radiation protection in interventional procedures, and the development of U.S. national diagnostic reference levels for medical exposures.