Training in Radiological Protection for Interventional Cardiology

To the Editor:

Interventional cardiology in Spain has gained great prestige and the country is a reference for many Latin American and European colleagues. Nevertheless, the development of the clinical and technological aspects of the discipline does not seem to have been accompanied by a similar development in radiological safety measures for professionals and patients.

In 1994, the Food and Drug Administration of the United States issued a warning about possible cutaneous radiation injuries to patients. Later, several documents issued by international organizations have tried to guide professionals in complementing the quality of interventional cardiology with high safety standards.

European Directive 97/43/EURATOM on medical exposure, article 9, addresses interventional techniques exclusively, as an example of a procedure that can involve high doses of radiation to patients, and establishes certain requirements for its practice. The European Commission has published a guide on training in radiological safety for medical exposure that contains recommendations on training programs and accreditation of interventional practices. In 1988 the American College of Cardiology (ACC) published a consensus document titled Radiation Safety in the Practice of Cardiology, in which information on the radiological risks of interventional cardiology was updated and specific recommendations were made for performing the procedures with a suitable level of safety. The document, approved by the ACC in October 1997, was endorsed by the North American Society of Pacing and Electrophysiology, the Society for Cardiac Angiography and Interventions, and the American Society of Nuclear Cardiology in June 1998.

In 2001, an editorial in the journal Heart on radiological risks to patients deriving from cardiology procedures sought to bring to cardiology the traditionally high radiological safety standards prevalent in the United Kingdom, with special attention to patients.

What is the current situation in Spain? Spain has scrupulously adapted its national legislation to the European directive on medical exposure. In 1999, a Royal Decree was published on criteria for quality in radiodiagnosis, which regulates interventional practices guided by fluoroscopy. This regulation complements another regulation governing the installation and use of X-ray apparatuses for medical diagnostic purposes, which states in article 14: «titleholders who direct the operation of X-ray facilities for the purpose of medical diagnosis and operators of the equipment who act under their supervision must have a course in radiological safety for their knowledge, training, and experience in matters of radiological safety.»

Without disregarding the stipulations in the regulations, it seems clear that interventional cardiology in the 21st century should be a high quality technique with an elevated level of safety for professionals and patients. Recently, the Sociedad Española de Radiología Vascular e Intervencionista (SERVEI, Spanish Society of Vascular and Interventional Radiology) organized the first pilot training course in radiological safety for its members (level two, as indicated by Royal Decree 1976/1999), which has been accredited by health authorities. The Sociedad Española de Cardiología (Spanish Society of Cardiology) or the corresponding sections should promote similar efforts.

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REFERENCES


