

## Protecting patients by training physicians in fluoroscopic radiation management

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(Received 8 November 1999; accepted for publication 7 January 2000)

During the past 15 years, developments in x-ray technologies have substantially enhanced the ability of practitioners to treat patients using fluoroscopically guided interventional techniques. However, many of these procedures require a greater use of fluoroscopy and serial imaging (cine). This has increased the potential for radiation-induced dermatitis, epilation, and severe radiation-induced burns to patients. It has also increased the potential for radiation injury and radiation-induced cancer in personnel. This work will describe a number of the cases that have appeared in the literature and current recommendations and credentialing requirements of various organizations whose members use fluoroscopy. Finally, a program for implementing training of physicians in radiation management as a means of reducing the risk of injury to patients and personnel is recommended. © 2000 American College of Medical Physics.

PACS number(s): 87.52.-g, 87.90.+y

Key words: radiation burns; fluoroscopy; radiation management.

### INTRODUCTION

In 1994, the Center for Devices and Radiological Health of the United States Food and Drug Administration (FDA) issued an advisory<sup>1</sup> warning healthcare facilities of the potential for radiation-induced burns to patients from fluoroscopic procedures. A separate article cited the growing number of cases of severe injury.<sup>2</sup> To date, the FDA has documented some 50 cases of radiation-induced burns. European investigations have confirmed at least 15 cases of radiation dermatitis that resulted from cardiologic procedures.<sup>3-7</sup> Additional case histories of injuries to both patients and physicians<sup>8-11</sup> have appeared in the literature. Some of the radiation-induced wounds discussed in these studies have required skin grafts resulting in permanent disfigurement. Cataracts and serious radiation injuries to hands have also been observed in physicians who have recently (as late as 1994) started using fluoroscopy in their practice (see Fig. 1).<sup>12,13</sup>

The FDA advisory alerted facilities to assure proper training of fluoroscopy personnel in light of "occasional but severe" radiation injuries from invasive procedures. Specific recommendations of this Advisory include the following:

- (i) that all operators be trained and understand system operation, including the implications for radiation exposure from each mode of operation;
- (ii) that facilities ensure that physicians performing fluoroscopic procedures have education so they may, on a case-by-case basis, assess risks and benefits for individual patients, considering variables such as age, beam location and direction, tissues in the beam and previous fluoroscopic procedures or radiation therapy;
- (iii) that patients be counseled regarding the symptoms and risks when radiation exposures are expected to be high.<sup>14</sup>

# Answers To Fluoroscopic Radiation Management Test

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