

# Preface

The National Council on Radiation Protection and Measurements (NCRP) was chartered as a private corporation by an Act of the U.S. Congress in 1964 to “collect, analyze, develop and disseminate in the public interest information and recommendations about (a) protection against radiation...” It is within the mission of NCRP to make recommendations pertaining to health and safety related to radiation exposure.

In the practice of medicine, radiation safety training is necessary to protect both patients and workers. Recommendations regarding the content and extent of this training have been made by several organizations and professional societies, but these recommendations rarely provide detailed curricula for all staff involved in fluoroscopically guided procedures (FGP). Also, FGP include a broad variety of procedures with a wide variety of typical patient radiation doses. Most existing recommendations do not consider the content of training required for individuals involved in different kinds of FGP, nor do they provide recommendations for the type and capability of fluoroscope to be used.

The purpose of this Commentary is to define an evidence-based, radiation-related classification for FGP based on patient radiation risk; to provide radiation-related recommendations for the types of fluoroscopes suitable for each class of procedure; and to indicate the extent and content of training that ought to be provided to different categories of facility staff who might enter a room where fluoroscopy is or may be performed.

Serving on Scientific Committee 4-12, who prepared this Commentary, were:

## *Co-Chairs*

**Stephen Balter**

Columbia University  
New York, New York

**Donald L. Miller**

U.S. Food and Drug Administration  
Silver Spring, Maryland

## *Members*

**Kimberly E. Applegate**

University of Kentucky College of  
Medicine (retired)  
Lexington, Kentucky

**Lisa Bruedigan**

Texas Department of State Health  
Services  
Austin, Texas

**George D. Dargas**

Mount Sinai Medical Center  
New York, New York

**Dustin A. Gress**

American College of Radiology  
Reston, Virginia

**Andrew Kuhls-Gilcrist**

Canon Medical Systems USA, Inc.  
Tustin, California

**Thomas L. Morgan**

Versant Medical Physics and Radiation  
Safety  
Kalamazoo, Michigan

**Andy Rogers**

Nottingham University Hospitals  
National Health Service Trust  
Nottingham, United Kingdom

**Kevin Wunderle**

Cleveland Clinic  
Cleveland, Ohio

*NCRP Secretariat*  
**Laura J. Atwell**, *Director of Operations*

The Council wishes to express its appreciation to the Committee members for the time and effort devoted to the preparation of this Commentary. NCRP could not continue to address the radiation protection needs of the nation without the willingness of Council members to serve, review and advise and without the partnership of agencies to work together for the good of the people and the well-being of the nation.

NCRP also gratefully acknowledges the financial support provided by the Conference of Radiation Control Program Directors (CRCPD). The contents of this Report are the sole responsibility of NCRP and do not necessarily represent the views of CRCPD.

Kathryn D. Held  
*President*