

# Radioprotection: elaboration of good medical practice guidelines

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## Objectives

- transcribe complex regulations into clinical practice
- elaborate good practice guidelines to help the qualified expert and occupational health physician to advise employers on risk assessment in the workplace
- facilitate a multidisciplinary approach in healthcare establishments

## Chronology :

**December 2000:** results of a survey in Île de France concerning organisation of radioprotection in healthcare establishments:

- insufficient risk assessment
- insufficient resources for the qualified expert
- insufficient training reported by occupational health physicians

**2001:** following the proposal by INRS in collaboration with IRSN and SFRP, creation of a multidisciplinary working group comprising occupational health physicians, physicists and qualified experts.

## Methodology :

- creation of data sheets for each medical activity and technique using ionising radiation
- medical radiological activities under evaluation:
  - conventional radiology
  - mobile bedside radiology
  - minor interventional radiology
- subsequent extension to nuclear medicine and radiotherapy

## Main items of a data sheet (x-ray generators)

Examples of techniques

Personnel concerned: identify each salaried or non-salaried occupational category concerned

Description of operating procedures

Risk assessment and determination of exposure levels

Basis of evaluation: job study  
 Delimitation of controlled and monitored zones: difficulty related to intermittent procedures  
 Classification of personnel according to their tasks  
 Appropriate dosimetric monitoring (passive, active, fingers, etc.)

Risk strategy and risk control

Risk reduction: improvement of technical protocols  
 Collective technical measures (design, controls, etc.)  
 Individual technical measures (individual protection)  
 Medical surveillance (management of incidents, pregnant women, etc.)

Evaluation of prevention

Annual record of individual doses  
 Statistical record of exposure in the department  
 Examples of dysfunctions

Other major risks

Importance of a regular assessment of the preventive measures adopted in healthcare establishments by a multidisciplinary approach

Importance of collaboration between the occupational health physician and the qualified expert