



# Introduction

Patrick Van der Donckt  
Sophie Leonard, Petra Willems  
Health & Environment – Protection of Health



**FANC**  **AFCN**

federaal agentschap voor nucleaire controle  
agence fédérale de contrôle nucléaire

[www.fanc.fgov.be](http://www.fanc.fgov.be)

# Notified Accidents in Belgium: it happens ! Few examples

- **2011** - Academic hospital Brussels : radiotherapy nurse 23 mSv on dosimeter
- **2012** - Academic hospital Wallonia: interventional radiology 775,9 mSv on extremities 12 consecutive months
  - Industrial Belgium: operator ; biological dosimetry total body : estimate 360mSv
- **2014** - Academic hospital Flanders: interventional radiology ; 34,4 mSv 12 consecutive months
- **2015** - Hospital Wallonia: nuclear medicine; contamination 99mTc; skin dose estimate: 1250mSv /cm<sup>2</sup>

# GOOD PRACTICES at working stations requiring a CLOSE MANAGEMENT of the ionising radiation risks.

Working stations with increased risks related ionizing radiation:

- ⚠ Risk analysis of the working station
- ⚠ Analysis of collective protection measures
- ⚠ Evaluation of the use of personal protection equipment

# Objective.

- ✓ Familiarize you with the working stations and the risks related to ionizing radiation,
- ✓ Give the tools for an improved risk evaluation:
  - ⇒ Adapt the medical follow-up
  - ⇒ Inform and sensitize the worker
  - ⇒ Improve the interpretation of potential exposures
  - ⇒ Weigh the IR related risks against other risks during the risk analyses.
  - ⇒ Consider the health status of an individual worker against the risks related to ionizing and the compatibility of the worker's state of health with the necessary individual protection measures.

# Programme

**14u00-14u05:** Introduction (FANC).

**14u05-14u30:** The potential future of targeted radionuclide therapy: implications for occupational exposure (P. Covens, VUB).

**14u30-14u55:** Workstation analysis: radiation protection in conventional radiology, radiotherapy and nuclear medicine (K. Persyn, AV Controlatom).

**14u55-15u20:** : Radiation protection in industrial plants (P. Carlier & L. Jadoul, FANC).

**15u20-15u40:** Break.

**15u40-16u05:** Radiation protection in the cathlab: optimization and practical tips (N. Bergans, UZ Leuven).

**16u05-16u30:** Industrial Radiography – General overview (R. Berden, FANC).