



Autumn Symposium

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Health and Environment – Service Health Protection

Theme coordinator medical X-ray applications

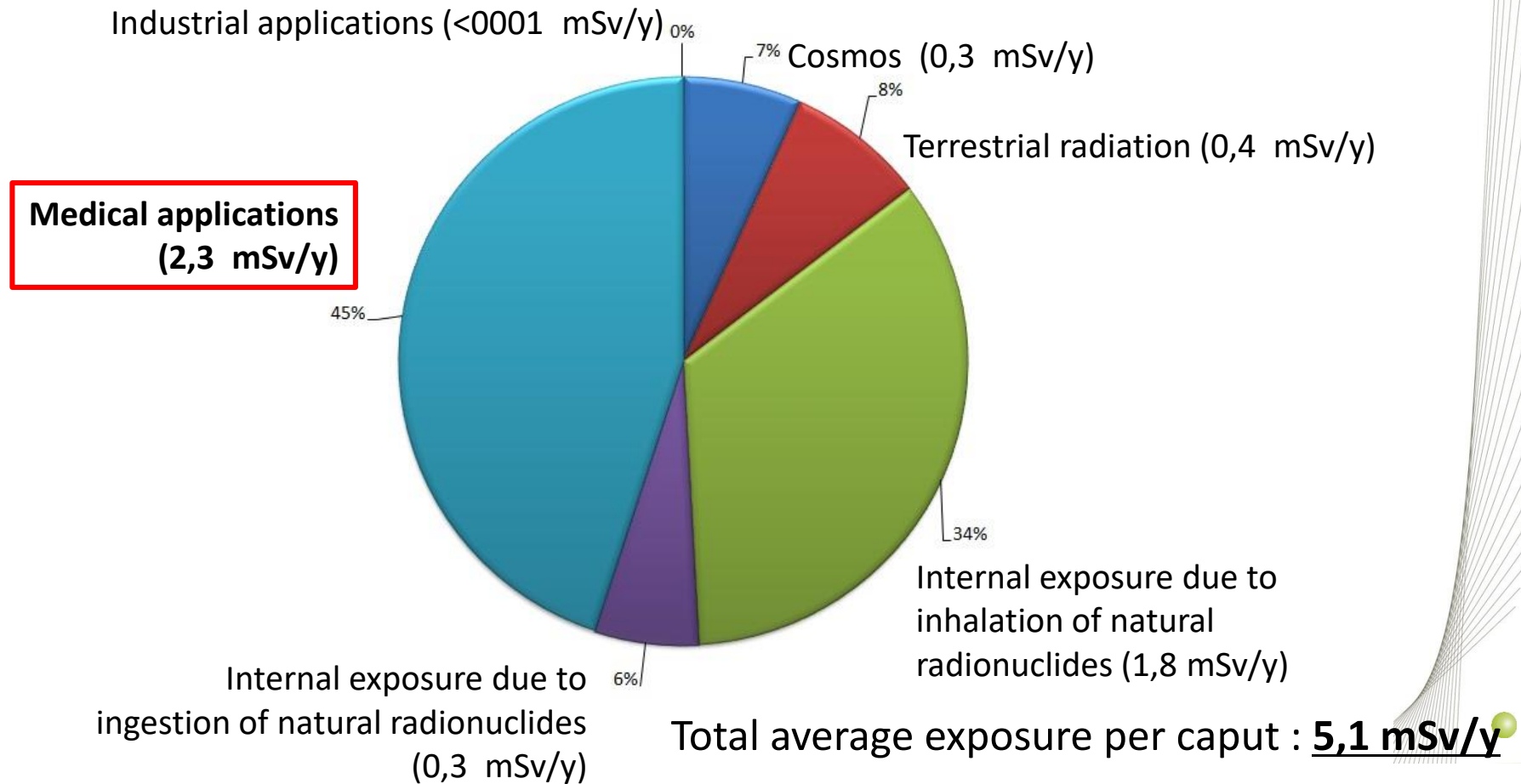
FANC AFCN

federaal agentschap voor nucleaire controle
agence fédérale de contrôle nucléaire

www.fanc.fgov.be

Population exposure

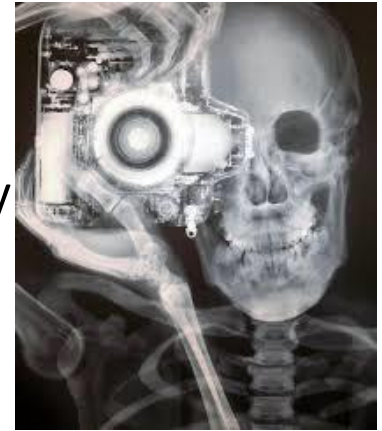
Population exposure to ionizing radiation in Belgium



Medical exposures

Medical exposures are **important**

- More people exposed than from any other human activity
- Potentially high individual doses



Medical exposures are **different**

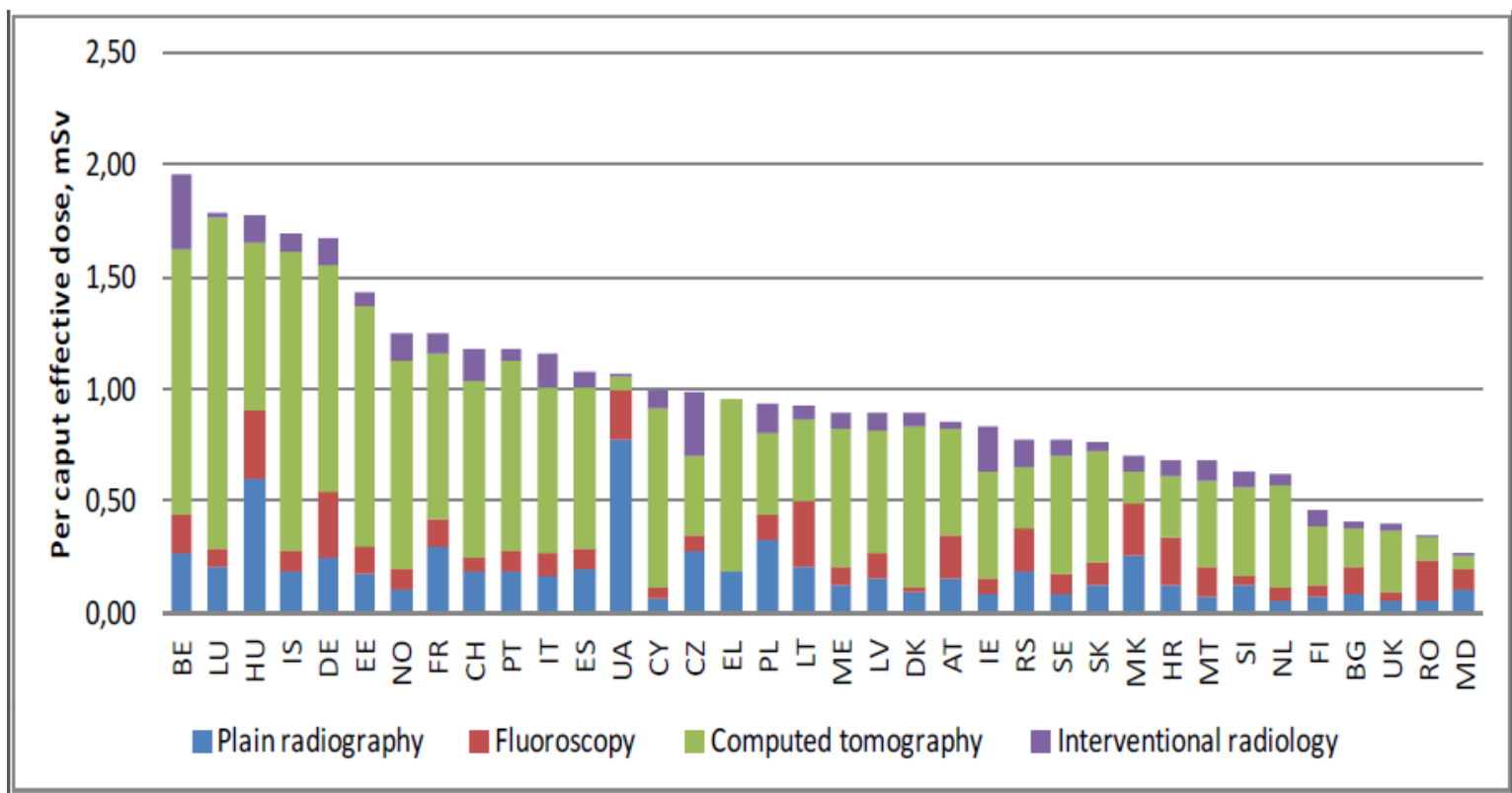
- Exposure of individuals (i.e. patients) is inherent (not a side-effect)
- No dose limits for patients

Medical exposures are **complex**

- Greatest risk is often not ionizing radiation (e.g. trauma, disease)
- Patient ↔ staff and environment

Medical exposures

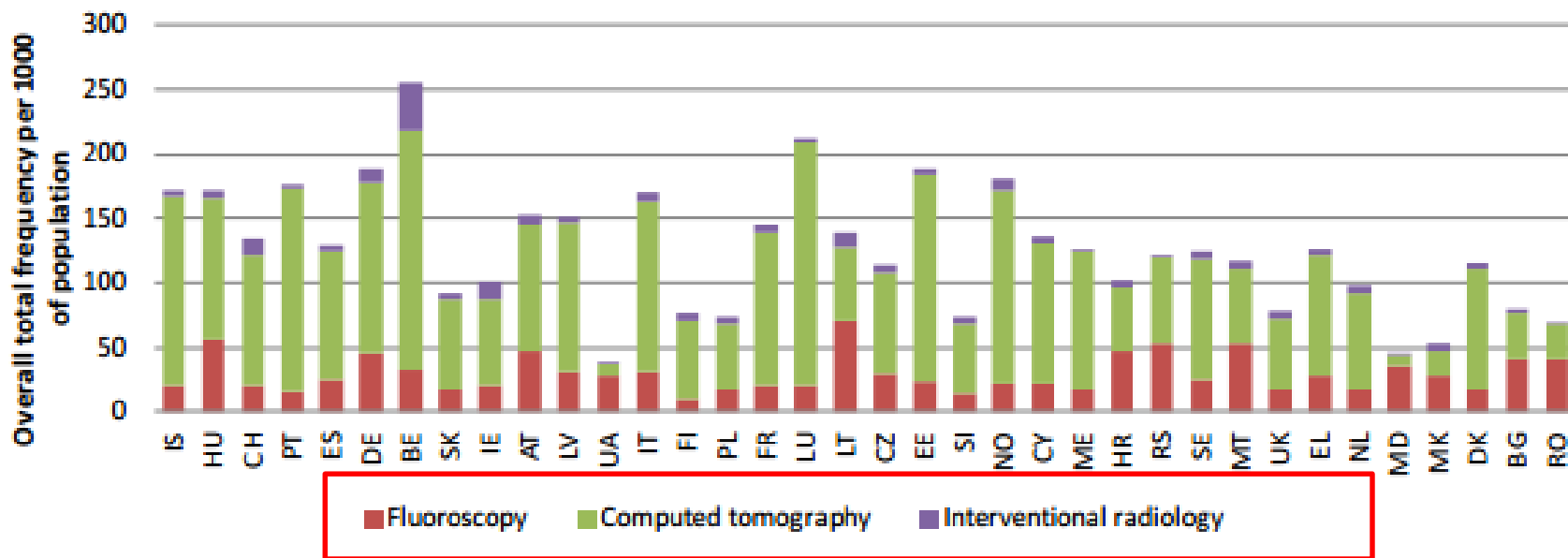
Dose DataMed 2 (DDM2) Part 1, 2014: European Population Dose*



*ddmed.eu

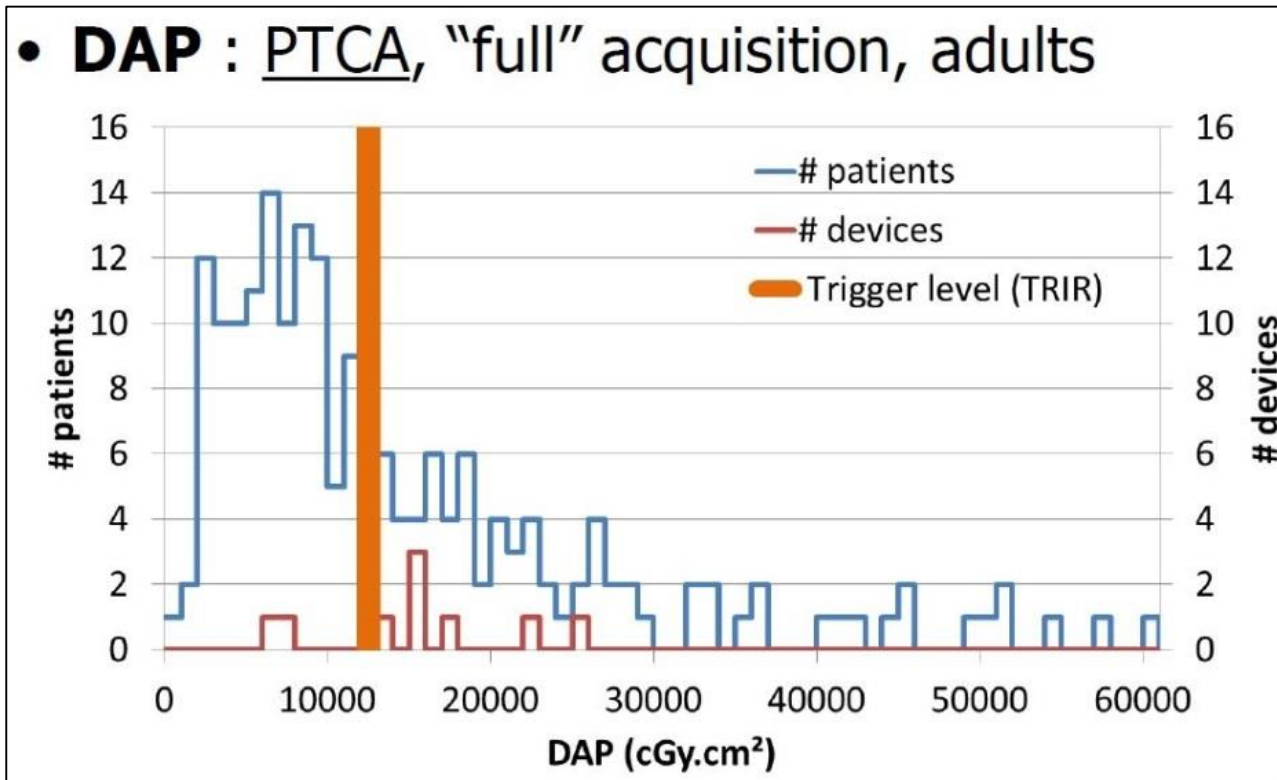
Medical exposures

Dose DataMed 2 (DDM2) Part 1, 2014: European Population Dose*



*ddmed.eu

Interventional procedures



Awareness, prevention and follow-up of deterministic effects!

Continuous training

Staff should be knowledgeable !

Fast changing area: keep your knowledge up to date

- New techniques and equipment
- Options on the equipment
- Associated doses

Be aware of your local doses and typical doses for a certain procedure and the associated benefits and risks

→ needed in the justification process

→ needed to assess new techniques and evolutions

Practicalities



- A certificate of attendance will be sent to you
- Don't forget to **sign out** when you leave !

- Presentation: auditorium
- Coffee break : cafetaria

