

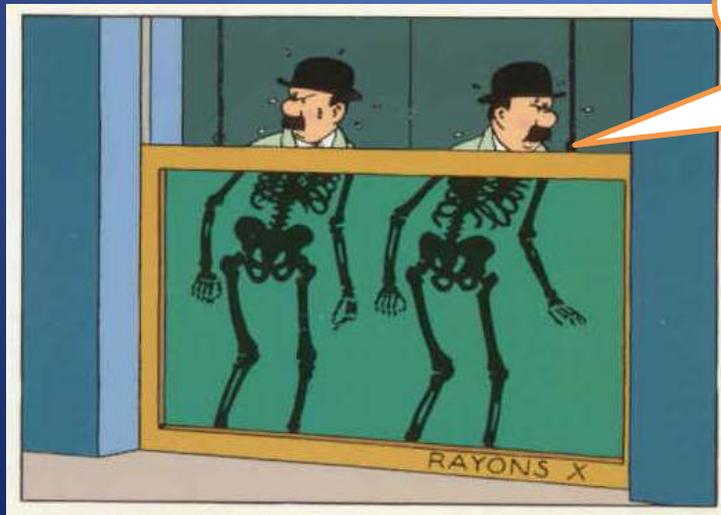
Radio protection

VBS/GBS
AFCN/FANC

Brussels, 21/09/2019

Mission of the AFCN-FANC

- The Federal Agency for Nuclear Control (FANC) has the mission to protect population (including patients), workers, and environment against the negative effects of radiations
- FANC works proactively to improve radiation protection and the knowledge on effects of radiation



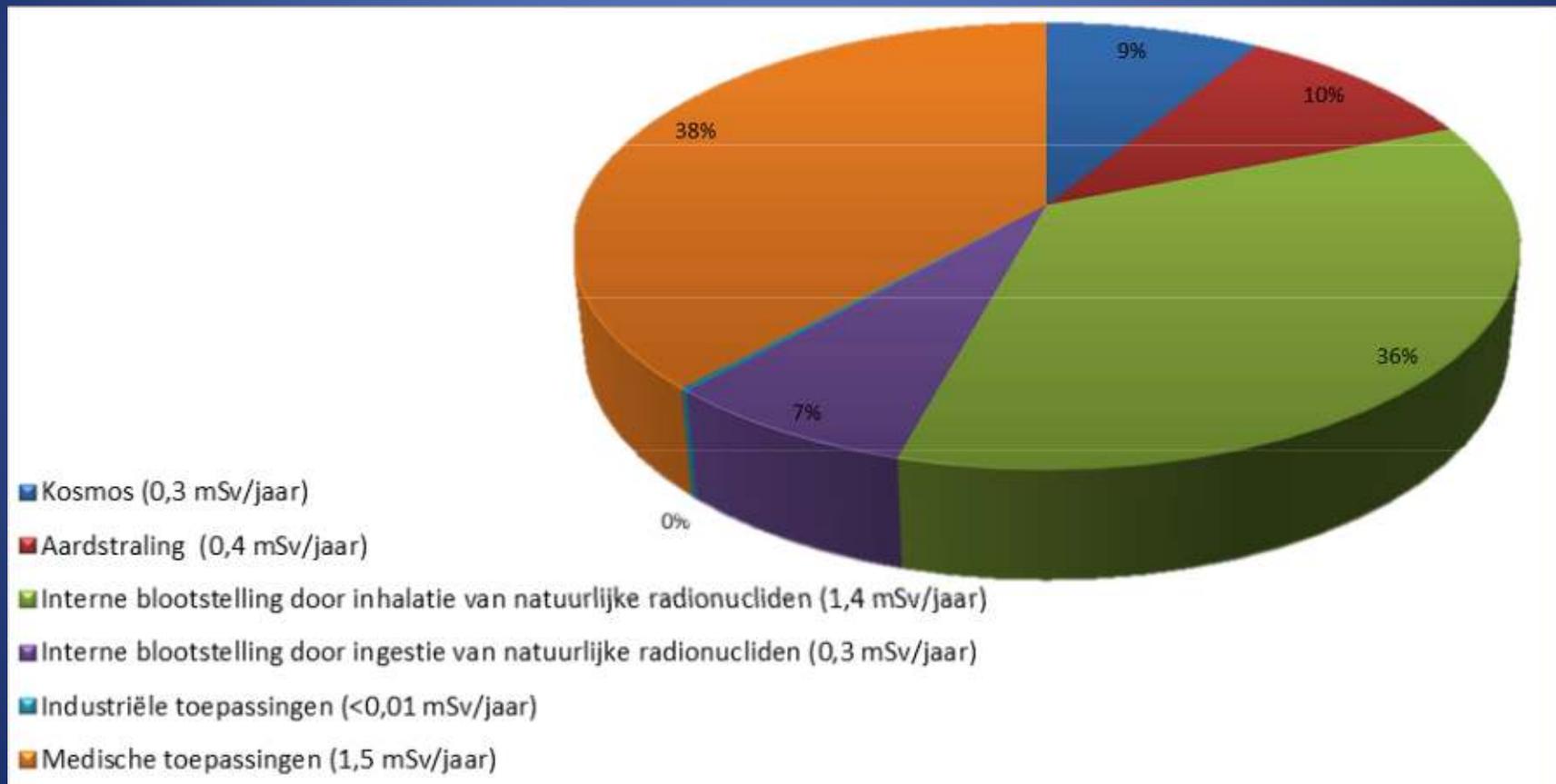
Justification and optimization
should be one of your concerns !

Average Annual Radiation Exposure in Belgium (2015)

Tabel 15: Populatie dosis per caput in mSv/jaar.

Populatie dosis per caput in mSv/jaar	2001 (5)	2006 (37)	2010 (1)	2015
Natuurlijke blootstelling				
Kosmische straling	0,4	0,4	0,3	0,3
Aardstraling	0,4	0,4	0,4	0,4
Inhalatie van natuurlijke radionucliden (Radon en Thoron)	1,5	1,5	1,7	1,4
Ingestie van natuurlijke radionucliden	0,3	0,3	0,3	0,3
Totaal natuurlijk	2,5	2,5	2,8	2,4
Kunstmatige blootstellingen				
Medische blootstellingen	2,0	2,1	2,3	1,5
Andere kunstmatige blootstellingen	< 0,05	< 0,05	< 0,01	< 0,01
Totaal kunstmatig	2,0	2,1	2,3	1,5
Totaal	4,5	4,6	5,1	4,0

Average Annual Radiation Exposure in Belgium (2015)



Limitation of our estimates

- Food , NORM (Natural Occurring Radioactive Material), remaining fall out of Chernobyl and nuclear tests are not taken into account
- Today RIZIV-INAMI doesn't cover all medical applications and doesn't provide all needed information to calculate the effective dose and risk (f.i. Weight, age, RX conventional/bed, nbr of scans....)
- Best case scenario (all minimum doses): **1.4 mSv/y**
- Worst case scenario (all maximum doses): **2.9 mSv/y**
- At the moment: **1.5 mSv/y**

Today's program FANC accreditation

FANC accreditation

3 h Radiologists / connex disciplines

RIZIIV/INAMI accreditation

3 CP's **19048283**

Program

- Communicating about the benefits and risks of X-ray examinations: how do you get started?
- Justification and optimization in practice.
- Risk analysis in radiation protection.
- Patient dosimetry for detection and follow-up of suboptimal procedures.



WALTER DORTCH/STACY FLAGG

**I WANT YOU
TO TURN OFF
YOUR CELL PHONE**

If you want this



Don't forget to put your signature
at the beginning and at the end!

See you here next year!



Same place,

26/09/2020