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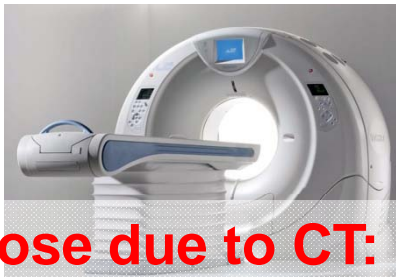
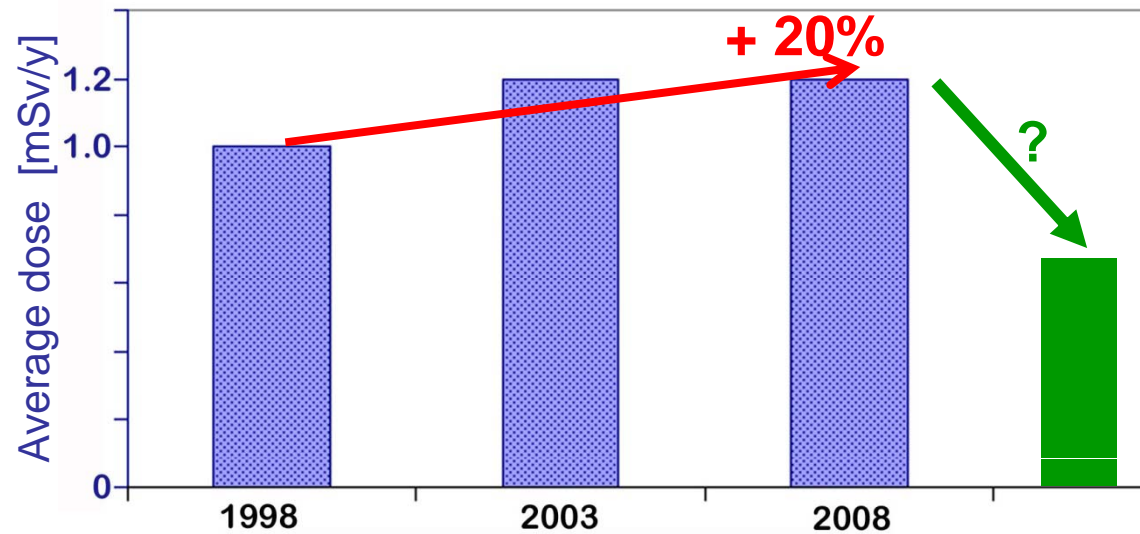
Clinical audits in RADIOLOGY: situation in Switzerland



Dr. Nicolas Stritt, FOPH, Switzerland



Switzerland: dose in medical diagnostic



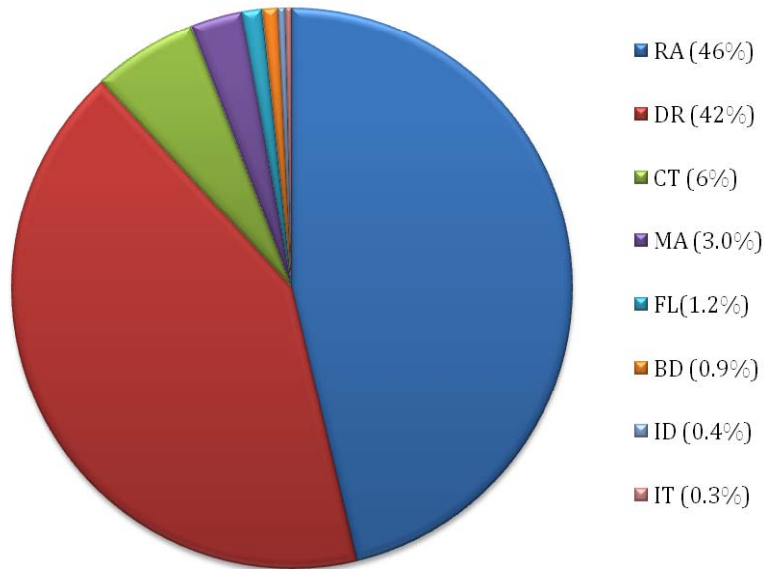
Dose due to CT:



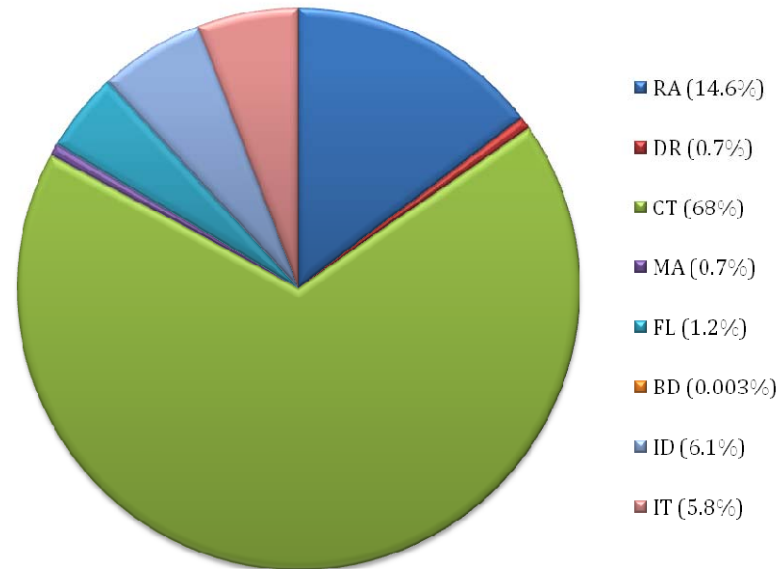


Population exposure* in medical diagnostic

Examination frequency



Collective dose

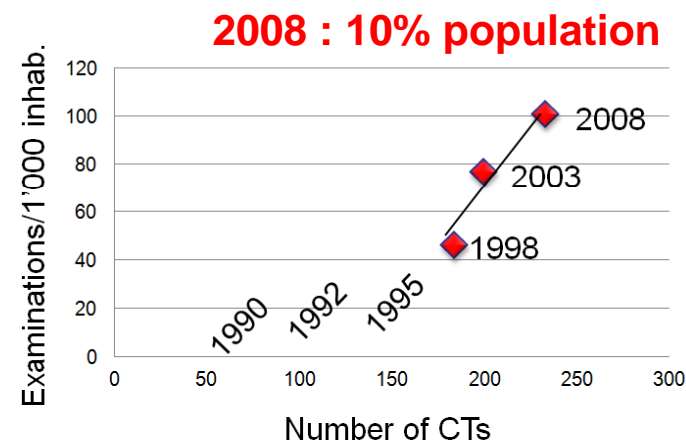


*Samara et al. 2012 Exposure of the Swiss population by medical X-rays: 2008 review, Health Physics 102



Justification of projet

- **20% CT unjustified** in Sweden (2006) Swedish Radioation Protection Agency 2009
- **30% CT unjustified** in young patients in Finland (2005) Eur. Radiol. 2009
- **CT: >50% patients unjustified phases** in USA (2008) ACR 2011
- **CT: teaching reduces dose** up to 30% in CH (2009) Schindera S, Radiologe 2010
- **Constant increase** of CTs and CT examinations in Switzerland OFSP, CHUV

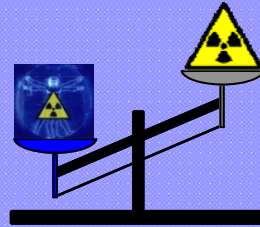




Swiss legislation and activities

Patients

- **Justification** of radiological exams/treatments



Clinical audits

- **Optimisation** of the applied dose
- **Diagnostic reference levels (DRL)** of dose

Studies

Technical audits

Public

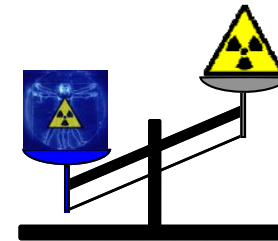
- **Technical limits**
- **Exposure limits for the workers/public**

Inspections



Goal of the project

To guarantee the optimal use of ionizing radiations for patients in radiology



To assure:

- **Justification** of examinations/treatments
- **Optimisation of processes** and ressources
- **Awareness** of personal & patients



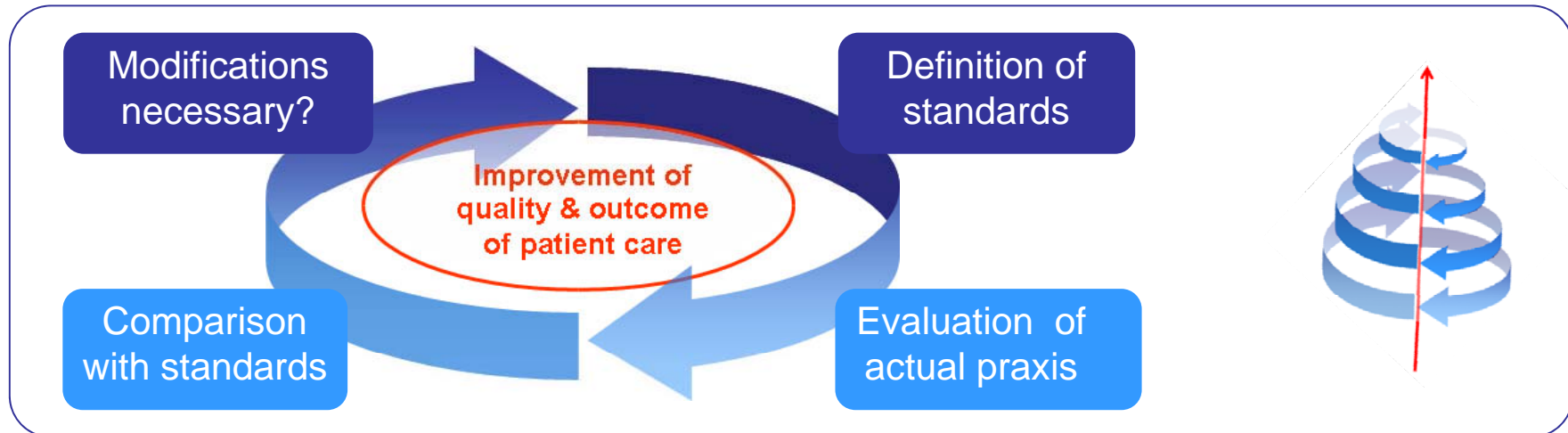
Clinical audits



External clinical audits

- « Systematic examination or review of medical radiological procedures, which seeks to improve the quality and the outcome of patient care, against agreed standards »

1997, Euratom 97/43, art. 6.4



- Peer review system
- complementary to other existing inspections/technical audits



Project strategy

- To act proactively
- In a participatory manner with main stakeholders
- Learning from others (ex. Finland)
- Swiss solution
- Revision of law



Self-financed audit organisation (draft)





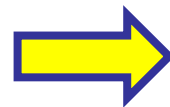
The Swiss system

- At our request, **representative experts** have been designated from the professional associations to study the system. We continue to work with them for the legislation, guidelines, ...
- The professional **audit organisation** will be **extern** to the government.
- The **auditors** will be **experienced** and **independant**.
- **Audited** organisations will **cover the costs** of the audits.
- Issues due to multilingualism and multiculturalism.



Work plan

- **Official start:** April 2011: public kick-off
- **System analysis** with main stakeholders in 2011 (radiologists, nuclear medicine physicians, radiooncologists, radiopharmacists, medical physicists, radiographers, patient organisations, hospitals, insurances, government)



Stable system

- Modification of the **legislation**
- **Guidelines** for the good clinical praxis
- Definition of **audit programs**
- Definition of **criteria for auditors**
- **Training** of the auditors
- First official clinical audits: 2017



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Clinical audits for an optimal patient benefit



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