

The Regulatory Authorities' Perspective



Dr. Philipp R. Trueb

*Radiation Protection Division
Swiss Federal Office of Public Health (FOPH)*



The Role of the Authority

Rule maker	Define policies, safety principles and associated criteria as a basis for regulatory actions
Inspector	Verification of the present situation by legal inspections or by making surveys with stakeholder groups on special topics related to radiation protection.
Advisor	Provide guidance to the operator on developing and presenting safety assessments or any other required safety related information
Forerunner	Promote research projects where stakeholders are partners to achieve common goal
Network creator	Information transfer between stakeholders; Exchange of good practices and also learn from the mistakes of other stakeholders



Manufacturers' role:

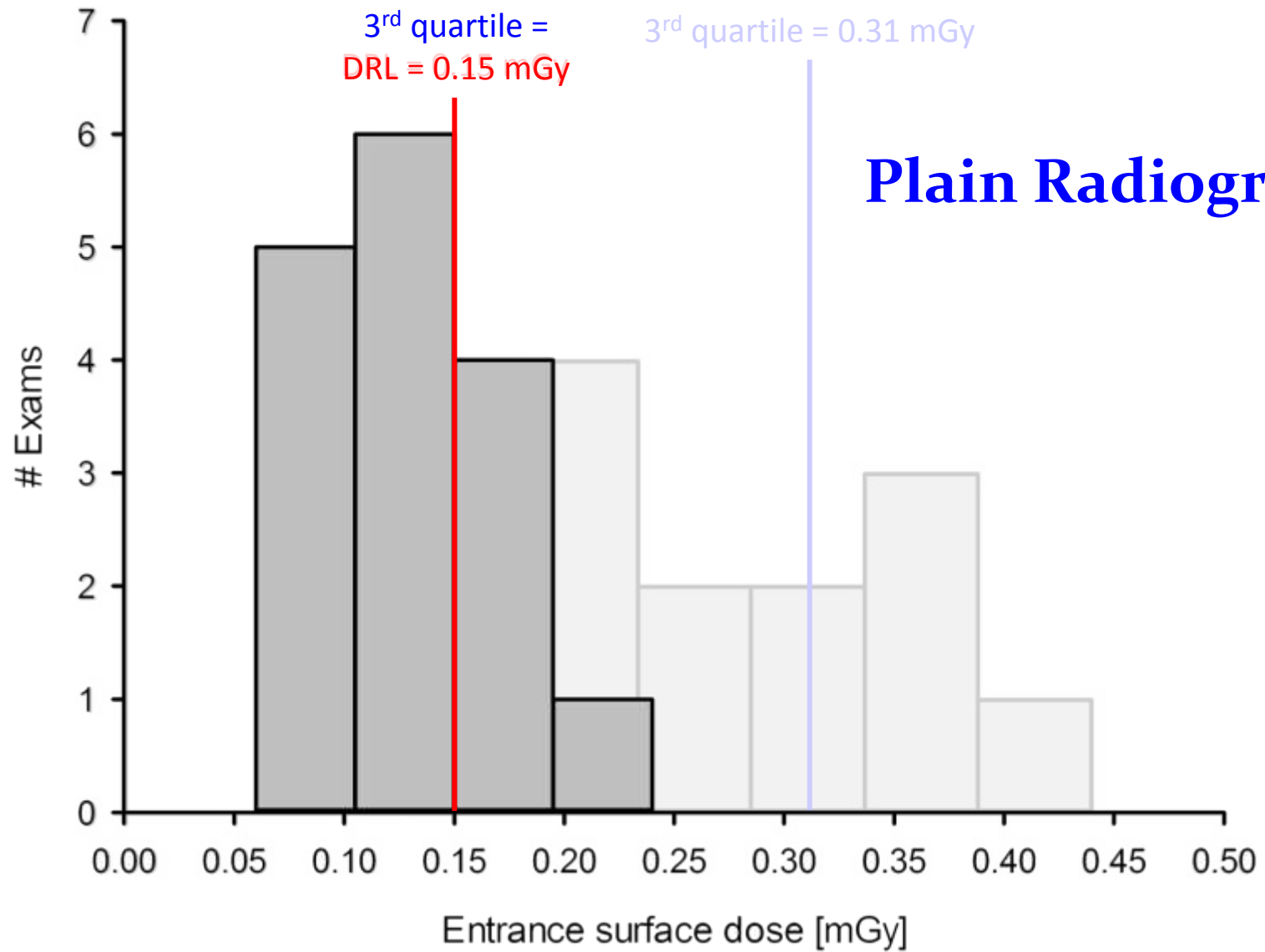
- (1) To provide optimized dose management for patient and staff
 - ▶ *State-of-the-art technology and upgrades*
- (2) To inform appropriately on radiation exposure for patient and staff
 - ▶ *Transparency*
- (3) To care about correct operation of their installations
 - ▶ *Optimization of radiological practice*
 - ▶ *Training of medical staff*
 - ▶ *Maintenance of medical equipment*



What is now
our experience?

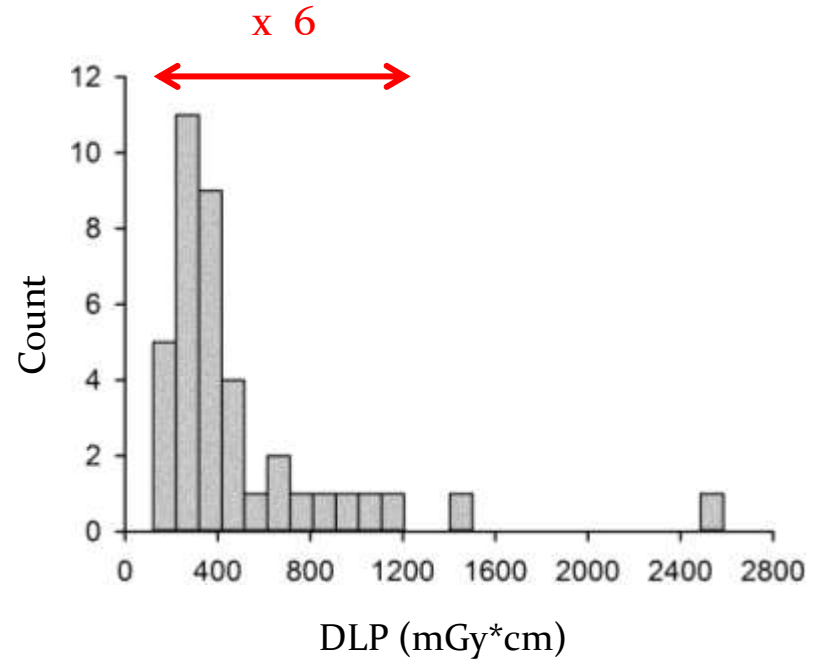
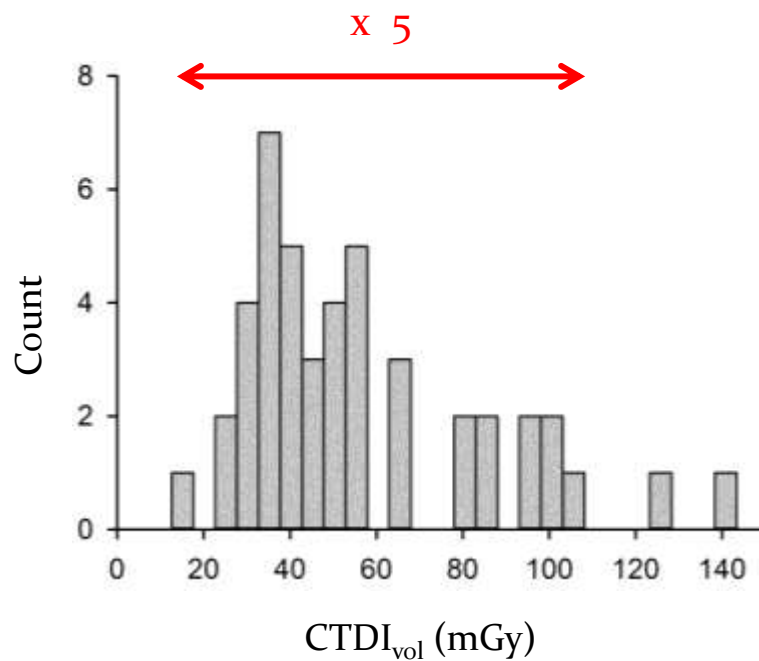


Chest pa 2012



Computer Tomography

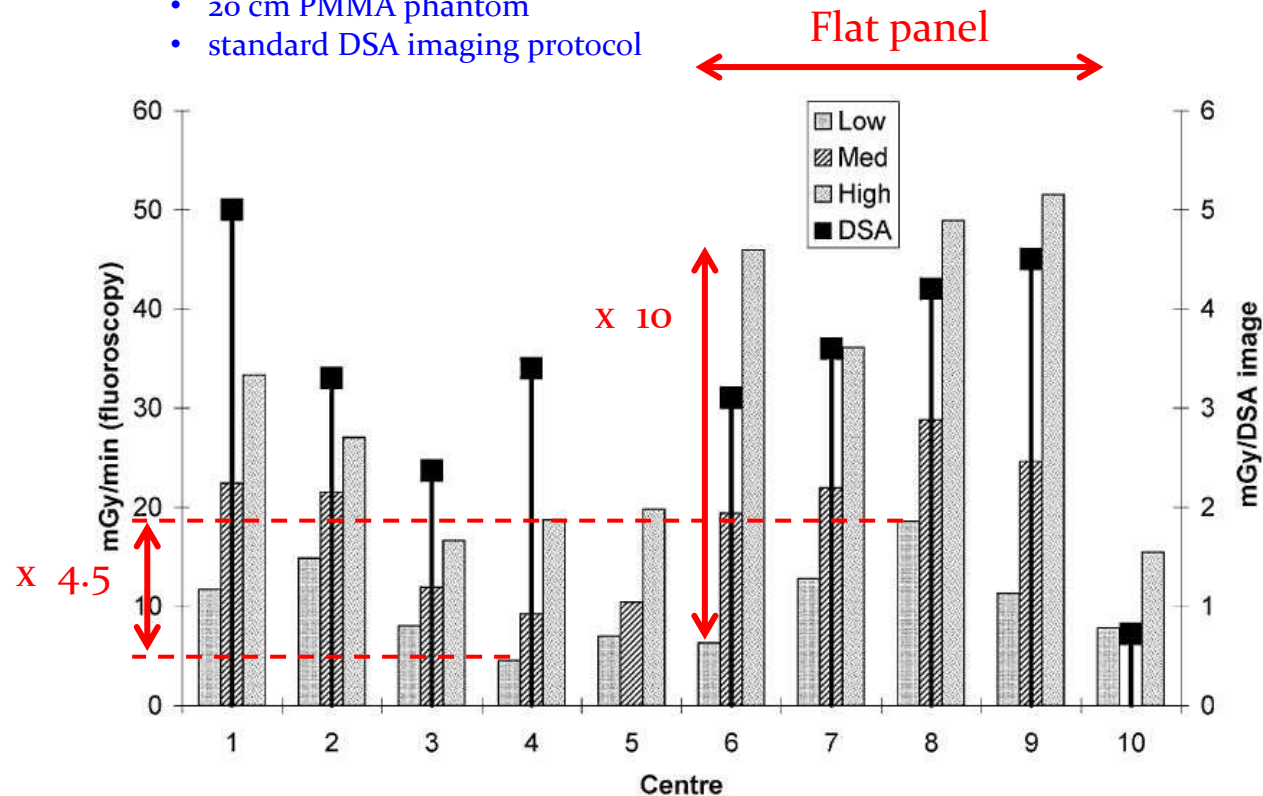
Example: Dose distribution of CT examinations of petrous bone



Interventional Radiology

Example: *Vano E. et al., importance of dose settings in the x-ray systems used for interventional radiology, Cardiovasc Intervent Radiol, 32:121-26, 2009*

- 20 cm PMMA phantom
- standard DSA imaging protocol



Current situation

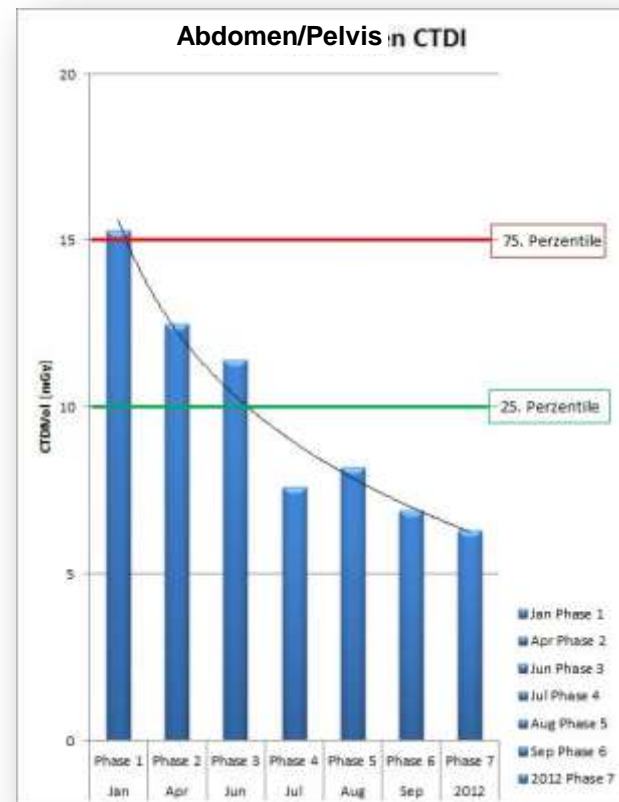
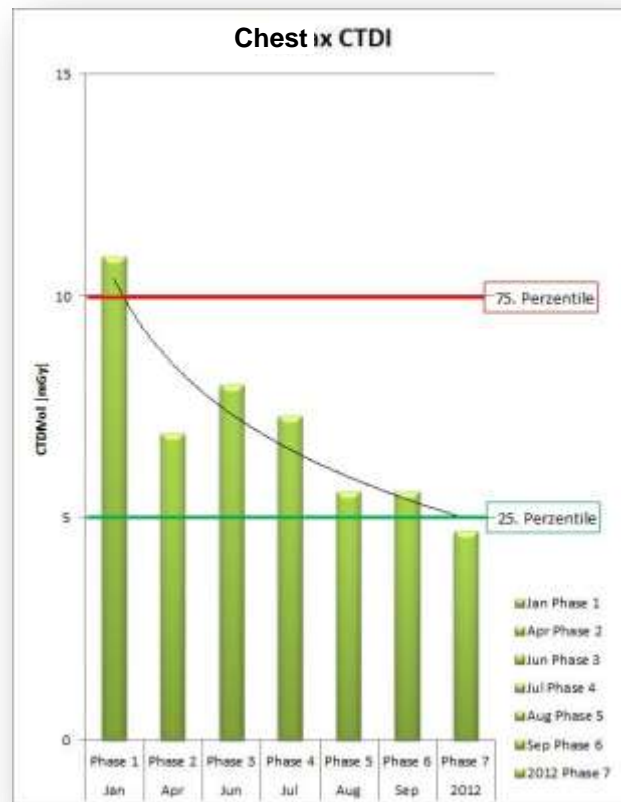
- large potential for dose optimization
- inhomogeneous implementation across Switzerland
 - ▶ *it matters in which hospital one is treated*
- significant dose reduction after legal inspection
 - ▶ *no big effort is needed*
 - ▶ *what is needed is awareness and a strong commitment for radiation safety*

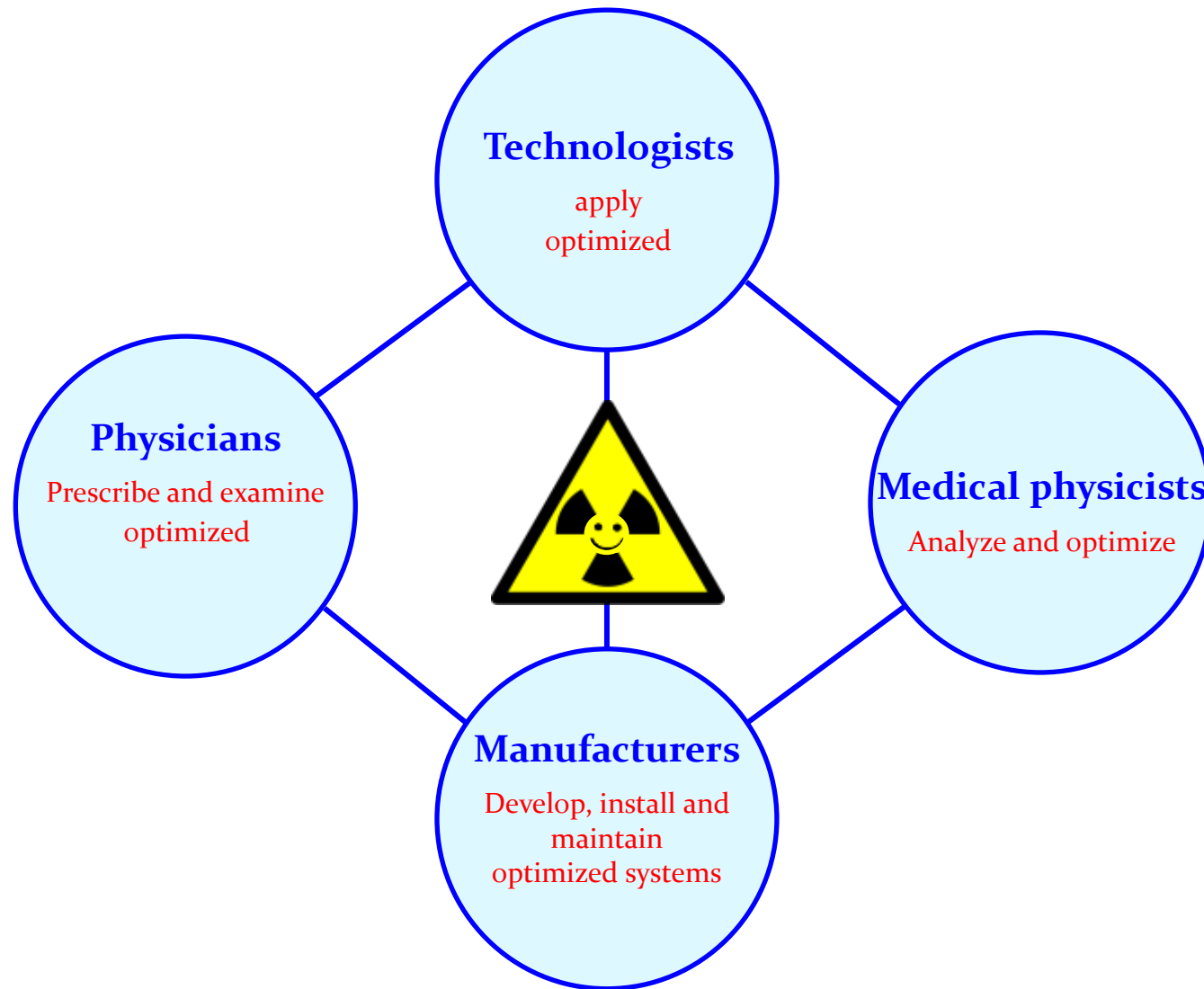


Manufacturer should act more proactively!

Computer Tomography

Example: Potential in dose optimization (Winner of Quality Award)





Thank you for your attention!

Dr. Philipp R. Trueb
Radiation Protection Division
Federal Office of Public Health (FOPH)
Tel. +41 31 322 96 06
philipp.trueb@bag.admin.ch