

National Experience of Clinical Audit: The Belgian Experience Radiotherapy

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How?

- 2001: 97/43 directive is transposed into a Royal Decree
- 2010: Federal cancer plan



- Action 16 → Budget for quality improvement initiatives in radiotherapy
- Condition: clinical audits needed to be developed
- Task attributed to the Belgian College for Physicians in Radiation Oncology:
 - Commission is composed of Radiation Oncologists (RO), appointed by the Ministry of Health and assisted by external experts such as medical physicists (MP) and RTTs.
 - Its mission is to promote the quality of radiotherapy on a national level.

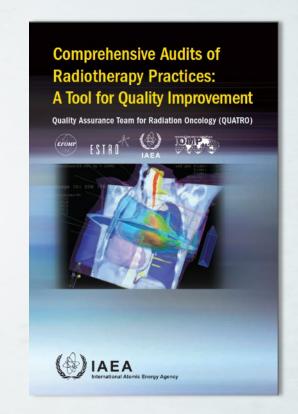


How?

- → Decision to use the IAEA "QUATRO methodology"
 - → multidisciplinary peer review clinical auditing process

2010:

- Selection of auditors (Dutch/French speaking; University vs nonuniversity departments):
 - Radiation oncologists, medical physicists and RTTs
 - → 14 auditors
- Training of the auditors by QUATRO auditors

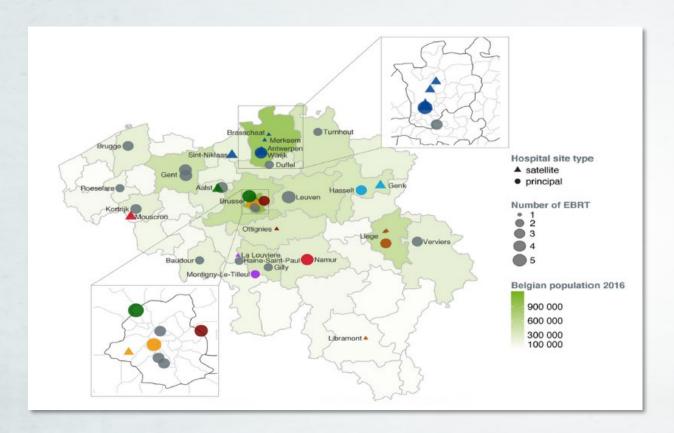


Status of clinical audits in radiotherapy in Belgium

		Different phases			
		Self-assessment	Internal clinical audit	External clinical audit	
	Level	Department	Hospital	Nationwide	
	Who carries out?	Personnel of the department	Auditors from other departments within the hospital/institution	Auditors from other hospitals/institutions	
	Result	Self-assessment report	Internal audit report	External audit report	

Identify areas for improvement \rightarrow Actions for improvement

QUATRO audits in Belgium



2011-2015:

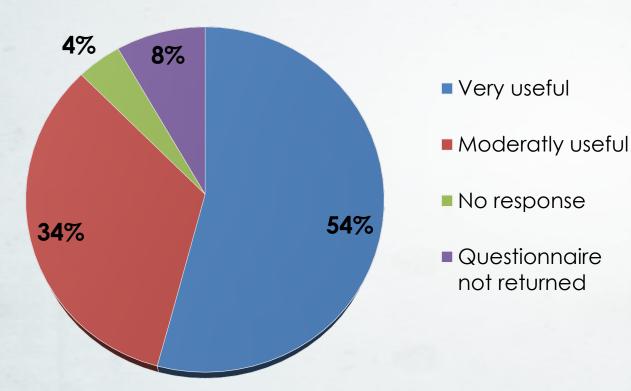
QUATRO audits of the 25* RT departments

- 3 audit days/department
- No dosimetric audits
- Excluding brachytherapy

*Excluding satellite sites

How useful were the recommendations?

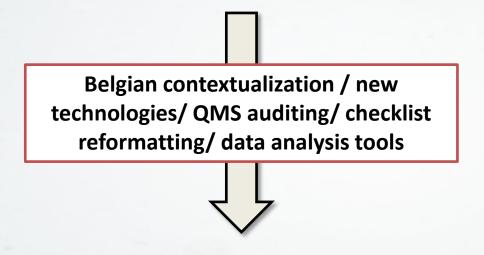
Departments' evaluation of the emitted recommendations



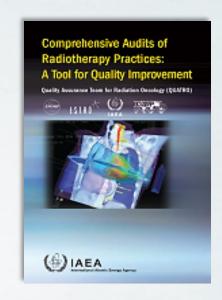
- → 42,7% of the recommendations were evaluated as being <u>very relevant</u>
- → 23.5% of the recommendations were deemed to have an important impact, the majority having a moderate impact (30.6%)

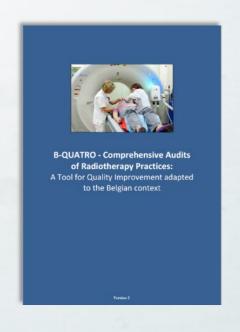
From QUATRO to B-QUATRO

- QUATRO: Comprehensive peer review clinical audits (2011-2015)



- B-QUATRO: Belgian - Comprehensive peer review clinical audits (2017-2021)



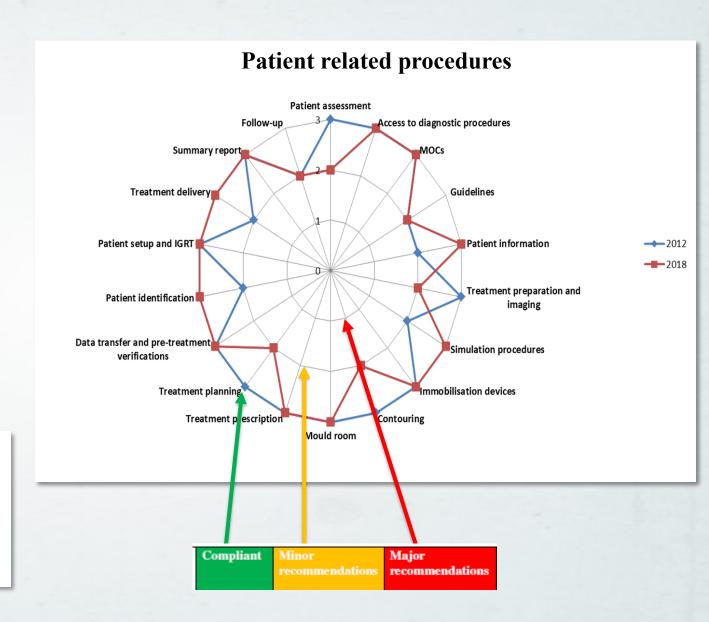


B-QUATRO

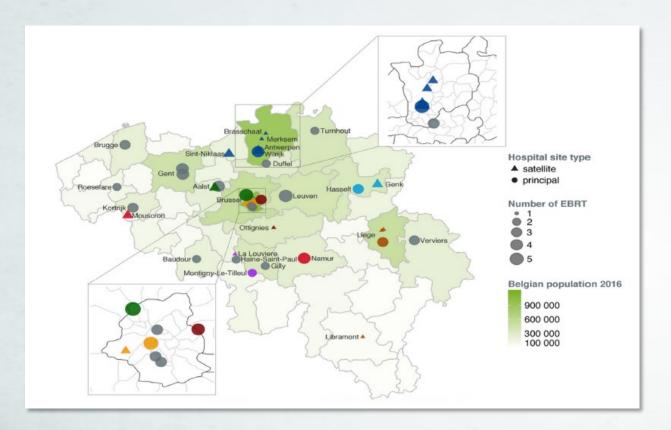
CHECKLIST 1. Patient Assessment Items to be reviewed by the auditor YES In progress

Items to be reviewed by the auditor	YES	In progress	NO	N/A
Does the hospital possess an electronic medical record (EMR) system?				
If yes, is the radiotherapy department integrated within this system?				
If no, does the radiotherapy department have access to all relevant clinical data/records?				
Is there an ease of access to patient imaging data?				
Is the pathology report included in all patients' files?				
Are patients staged?				

Overall Score	Compliant	Minor recommendations	Major recommendations
Is patient assessment properly carried out by the radiotherapy department?			
Commendations/Recommendations			



B-QUATRO audits in Belgium

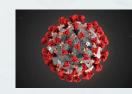


2017-2021: "second cycle of audits"

B-QUATRO audits of the 24 RT departments (+ 16 satellite sites)

- 2½-3½ audit days/department
- No dosimetric audits
- Excluding brachytherapy
- Including quality managers

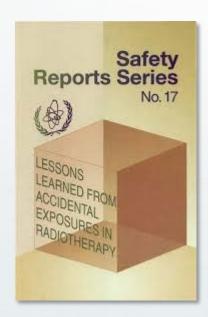




Clinical audits in radiotherapy

Incentives (what helped us?)	
We had QUATRO document and the experts	
Quality and safety Culture in radiotherapy	
Limited number of RT departments	
Multidisciplinary equity and respect	





Clinical audits in radiotherapy

Incentives (what helped us?)	Challenges (what do we need to foresee?)	
We had QUATRO document and the experts	Maintaining the experts and the expertise	
Quality and safety Culture in radiotherapy	Need for the regular update of the B-QUATRO manual	
Limited number of RT departments	Hospital accreditations (ACI, JCI)	
Multidisciplinary equity and respect		
Budget (10,000 euros/year (reimbursement of costs incurred))		







Questions?

