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## Audit 11

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- 1) **Audit Title**  
**Image quality in CT**
- 2) **Standard against which the audit topic is to be compared**  
To be discussed locally.  
See e.g., Zarb, Rainford, McEntee 2009.  
Preferably combined with patient dose evaluation
- 3) **Source of standard (or reference document)**  
EUR 16262 EN  
(National reference levels for dose comparison, for pediatrics EC RP 185 if no national DRLs)
- 4) **Type of audit – clinical, BSSD related, patient focussed**
- 5) **Target / compliance percentage to be achieved**  
To be discussed locally.
- 6) **Item or variable to be audited**  
(Clinical) image quality
- 7) **Method: Retrospective / Prospective / Other**  
Retrospective
- 8) **Data or information to be collected**  
CT examinations  
(Dose information included)
- 9) **Sample details (categories, number of patients, collection time period)**  
To be decided locally.  
Usually the most common CT examinations, or if new scanner, new or recently updated protocols. E.g., 20 consecutive head CTs, routine abdomen CTs or routine chest CTs.
- 10) **Target achieved (yes / no / not applicable)**
- 11) **Actions to be taken if the target is not met**  
If image quality is not sufficient, look at the technical possibilities of optimization together with the dose information. Discuss with medical physics expert.  
If the image quality is good, but the DRLs are exceeded, look at the possibilities to decrease dose without losing diagnostic image quality, also notice the scan lengths.
- 12) **Timing for re-audit (yes / no / not applicable)**