

Audit for Radiology Trainees

Dr Anna Beattie and Dr Mark McCleery

Background

The 2012 JRF survey identified relatively strong support for audit in clinical practice. However, from the free text comments, many feel that audit is a tick-box exercise, which can lead to poor quality audits and time being wasted. Many trainees are not allocated time in rotas for audit and several comments suggest a lack of direct relevance to trainees and a disengagement with the process. Based on the survey results only a minority had used the AuditLive website.

However, audit is an important part of clinical practice with the ability to make major changes in patient care and improve both professionals' and patients' experiences in the healthcare system. Audit, or a quality improvement project, is also a compulsory annual component of radiology trainees' annual appraisal process and cannot be dispensed with.

Therefore, as a result of this survey and particularly the free text comments, the JRF has written this guide to help make audit more easy and advantageous to trainees.

Aim

To ensure that audit can be made more practical and relevant for trainees. Some of the audits described below can be done as multiple audit loops and, therefore, can be updated regularly.

Audits for Trainees

On-call provides a good opportunity for you to audit your performance, as it is the time you act most independently and therefore most reflective of the standard of your practice. On-call Discrepancies

This can be done for a cohort of trainees similar to this <u>audit template</u>. Alternatively, and perhaps more usefully, an audit of personal performance could be performed and used to

demonstrate progression in training. Standards for radiology discrepancy meetings will help trainees understand the process expected of them as a consultant and relate to on-call discrepancies, as in this <u>audit template</u>.

An Audit of On-call Appropriateness Scans

This would be best done retrospectively and you could focus on your own requests and demonstrate how well they adhere to iRefer. There is a recently published RCR national audit on appropriateness of requests, which could be used for pointers in carrying out this audit. A template for this project is available here.

An Audit of Standard of (On-call) Radiology Reports

The best diagnostician is only as good as their effectiveness at conveying the salient information from a scan. Therefore, ensuring a high quality of reports is of paramount importance. A template for this audit is available here.

Peer-Review Process

Senior trainees may wish to audit double reporting similar to the peer-review process. A template for this audit is available here.

Accuracy of Reports

This is particularly useful in the surgical setting where pathological correlation may become available such as local tumour staging.

Film Reporting Accuracy

Identify patients who have had a CXR within 24 hours of a CT. Report the films and then correlate with CT and establish your sensitivity and specificity.

Procedural Outcomes

This is most relevant within a block doing similar procedures or as a sub-specialising senior trainee, for example success and complications of biopsies. There are multiple audit templates available for biopsy here.

Focus region on ultrasound

Retrospectively review images from your ultrasound scans and check how often you correctly place the focus zone at the level of the region of interest.

If you are ever short of ideas for an audit or none of the ideas above take your fancy, there are now over 150 templates on the <u>AuditLive</u> website covering a wide range of topics which may be of relevance to you, both in sub-speciality areas or a broader context. The keyword search facility is a useful way to bring up a list of templates but the templates are also listed under broader topics e.g. A&E, Intervention, MRI etc.

Making the Most of Audit Opportunities

There are lots of ways to maximise the work you have done on your audit. There is an annual audit poster competition as part of the ASM, authors of suitable, original topics will be invited to submit a template. If you have carried out an audit on a topic not covered by the AuditLive templates you can also submit a template. A significant proportion of the templates have been authored by trainees and authorship can be cited on your CV.

Audits are also often accepted at sub-speciality meetings, provided they can be generalised. Keep an eye out for opportunities to submit your project nationally and internationally.

Problems in Audit

If you are struggling to get a handle on the components of a good audit project then the RCR Audit Committee's <u>guidance</u> for the ASM Audit Poster competition and this <u>article</u> by Karl Drinkwater on what makes a winning audit poster can be helpful in ensuring you achieve all the components required of a thorough and complete audit project. A common problem encountered by the Audit Committee reviewing abstracts for the ASM Audit Competition is the lack of published standards in submitted audits. Where possible derive your standards from national/ international guidelines or, at least, the published literature.

While many people carry out audit successfully and undertake useful and interesting projects, it is not without its problems such as failure to complete the audit loop and deficiencies in standards. The following references highlight some of the problems encountered to help you avoid making similar mistakes:

- John CM, Mathew DE, Gnanalingham MG. An audit of paediatric audits. Arch Dis Child 2004;89:1128-9.
- Guryel E , Acton K, Patel S. Auditing orthopaedic audit. Ann R Coll Surg Engl 2008;90:675-8.

Quality Improvement

Audit always aims to improve outcomes and/ or patient care but these can be achieved in a variety of ways. In recognition of this and as part of a move towards a broader spectrum of quality improvement, organisations such as the Healthcare Quality Improvement Partnership and Institute for Healthcare Improvement are promoting a move towards quality improvement, some guidance on this subject is available from their website here. Audit is a key component of quality improvement to ensure improvements are maintained.

The radiology training curriculum now recognises quality improvement projects alongside audit and trainees need to consider whether undertaking these will be more appropriate and rewarding. The following documents give some insight into quality improvement and the place of audit within it.

- Hillman T, Roueche A. Quality Improvement. BMJ Careers 08 Apr 2011
- Riaz D, Hillman T. Going Beyond Audit. BMJ Careers 05 Jul 2011

The College has further information here and hopes to expand on this.

Summary

There are several audits relevant to trainees that can be completed at different stages of training to demonstrate progression, others can benchmark performance and therefore useful evidence for ARCP, some may help transition towards consultant practice. The AuditLive section of the RCR website is a great resource with many templates available to help undertake an audit and gives you the opportunity to have an audit template published, improving your CV.

Quality improvement is an important development in the field of audit that you must be aware of, understand and be prepared to undertake during your career.

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