EBreast II





Clinical audits and standards of breast cancer care

Learning objectives

After this lecture the student should be able to

- Demonstrate knowledge and critical reflections of how quality indicators allow standardised auditing and quality assurance.
- Participate in quality development processes and audit.
- Apply quality indicators related to breast cancer treatment and care in quality assurance and audit.

Contents

- Aim and purpose of clinical audits
- Audit process and principles
- Benefits of clinical audits
- Case Finland practical example of national clinical audits on adjuvant radiation therapy of the breast.



Clinical audit

is a systematic, independent and structured examination or review of medical radiological procedures which seeks to improve the quality and the outcome of patient care (1).

The aim of clinical audits is to

- Improve the quality of patient care
- Promote the effective use of resources
- Enhance the provision and organization of clinical services
- Promote professional education and training.



Objectives of clinical audits are to

- Address the practical clinical work by different professionals
- Assess the local practice against the defined good practice
- Have professional initiation and foster an environment which enhances professional relationships and the multidisciplinary approach required to optimise patient care



Clinical audits

- Internal: auditor from the same health care unit.
- *External:* Independant auditor from other health care unit, auditing company or clinical audit group.
- Clincal audits should be carried out by *multidiciplinary* and multiprofessional auditing group having highest expertice in their audit area.
- Should follow *clear practices* and *evidence-based criteria* during the whole auditing process (2)



Clinical audits

- Health care practices and results should be examined against agreed standards.
- Be a systematic and continuing activity.
- Follow general accepted rules and standards.
- Aim at evaluating the current status of the health care unit with respect to its services and to identify areas for future improvement.



Standards of good practice

- Evidence-based!
- Based on legal requirements, results of research, guidelines or quality indicators by learned societies, consensus statements or local agreement
- Both generic and specific criteria
- Practical measures of performance
- To be updated regulary



Auditors



- Professional competence and long-term clinical experience
- Need to be involved in clinical work at a speciality approximately similar to the one to be audited
- The auditors should receive specific training on the general audit procedure and techniques, as well as the agreed audit programme and the criteria of good practices to be applied.



The process

- 1. Select the standard
- 2. Assess local practice
- 3. Compare with standard
- 4. Implement change
- 5. Re-audit





Audit process

Audit request by admin unit

Preparation

- Objectives
- Team
- Method
- Data + documentation
- Communication to all

On site auditing

- Familiarising with the target unit
- General guidance of audiors
- Clarifying objectives to all
- Data collection

Analysing and reporting

- Comparision against standards ++,+-,—
- Auditor recommendations



Frequency of audits

- Self assessments: Annually
- Internal: continuous activity covering significant parts of the program once a year
- External: min time interval five years (2)

In national recommendations there may be deviating recommendations according to medical exposure type.



Benefits of clinical audits

- Uniform good quality protocols for examinations and therapies
- Uniform national/international criteria help to compare performance in different radiology and radiotherapy units...
- Feedback tool for the staff of their performance.
- Point out need for corrective actions.
- Works as powerful educational tool.



Audit works as powerful educational tool

The audit team learns about:

 multiprofessional assessment practices, audit process itself, different kinds of practices in other organisations, ways of organsing services...

The site to be audited e.g:

- also learn about audit process and practices,
- learn how to improve the unit and individual performance,
- staff gets positive feedback and encouragement,
- give tools to implement corrective actions quickly,
- supports staff in their learning and development (3)

Case Finland

Clinical audits on adjuvant radiation therapy of the breast



National clinical audits on adjuvant radiation therapy of the breast

Finnish advisory committee for clinical audits (KLIARY) set:

- topics to be audited,
- best practice criteria against which the clinical practice was assessed
- and questions by which the fullfillment of the criteria could be assessed (4)



Topics to be assessed

- Decision for radiation therapy and how referrals were dealt with
- Indications of breast radiation therapy in different malignancies
- Preparatory procedures before radiation therapy
- Prescribing radiation therapy

- Dose planning
- Execution of radiation therapy
- Radiation therapy process
- Follow up (4)

Best practice criteria

- Best practice criteria were based on recent high quality research studies and/or guidelines and valid legislation
- E.g. Topic Preparatory procedures before radiation therapy; subtopic: Dose planning examinations
- Best practice criterium was based on The Act of the medical use of radiation 1044/2018 (5)



Best practice criteria

Topic: Preparatory procedures before radiation therapy; subtopic: Dose planning examinations

Criterium: Breast dose planning CT must have imaging protocol accepted by physician.

Measures of the level of performance:

- Imaging time must be slow enough for free-breathing imaging and short enough for breath-hold imaging.
- Slice thickness must be thin enough (≤3mm, Image quality DRR). Image quality
 must be good enough in order to define vein structures, sentinel nodes and
 healthy tissue. Imaging dose must be identifiable and optimised. (4)



Questions to assess the fullfilment of quality criteria

Topic: Preparatory procedures before radiation therapy; subtopic: Dose planning examinations

- What kinds of imaging protocols were created for dose planning CT?
- What kinds of things were addressed and taken into account on these protocols?
- What was the slice thickness on dose planning CT?
- Has the maximum dose limit been set for dose planning CT? (4)



Audit report contents

- Objectives of the audit
- A brief description of audit activities
- Description of the facility
- Findings and results of the audit
- Benchmarking if appropriate
- Conclusions
- Recommendations
- Annexes. (2)



After the audit

- Auditor report and recommendations are given to improve the practice
- No sanctions
- Improvements checked out at the next audit rounds

Clinical audit is an effective tool for developing practices! (6)

Thank you for your attention!



References

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