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# **Strategies for coordinating and streamlining audits**

# Purpose of clinical trial audit

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- Safety
  - Introduction of new techniques
  - Validation for trial purposes
  - Reassurance for investigator sites
  - Identification of problems
    - Mechanical issues
    - Dosimetry issues
- Consistency
  - Across all recruiting sites

# Progression of audit through trials

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- Individual trial audit
  - CHART, START, RTO1, PARSPORT
- CTRad addressing RT research 2009
  - Support for centralised QA
- RTTQA central funding 2010
  - Coordination of QA programmes
- Increase in number and complexity of trials
- Increase site participation and patient recruitment



# Streamlining

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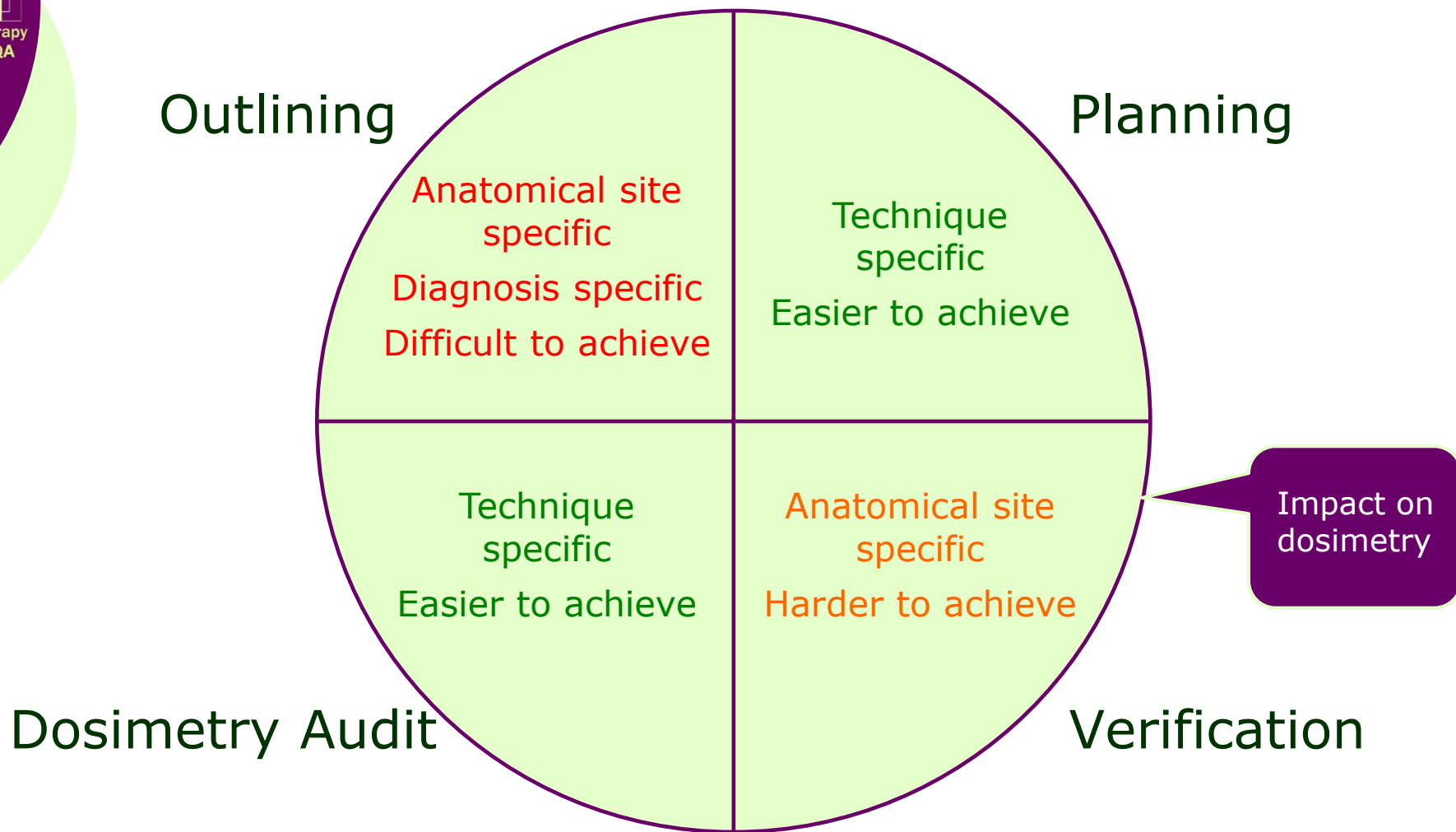
- Why we want/need to do it?
  - Reduce QA associated workload for sites
  - Reduce workload for RTTQA
- Benefits
  - QA approve sites for trial recruitment in a shorter timescale
  - Faster accrual of patients to trials

# Components of clinical trial audit

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- Clinical aspects
  - Outlining
  - Planning
  - Verification
  - Dosimetry audit
- Consistency is key

# Streamlining individual components



# National streamlining through trials

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Participation in a number of trials

Streamlining according to anatomical site

Streamlining according to delivery technique

## RECTUM

ARISTOTLE, COPERNICUS, TREC

Outlining and planning

## BREAST

IMPORT LOW/HIGH, BIG3-07, FAST FORWARD

Outlining, planning and dosimetry audit

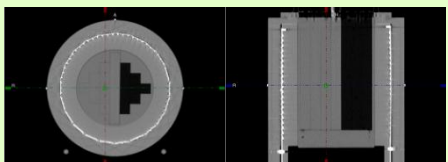
BIG – 23 sites recruiting, 5 test plans

FF - 46 centres recruiting, 5 dosimetry audit

## LUNG

IDEAL, I-START, ISOTOXIC LUNG IMRT

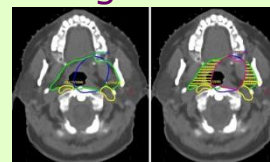
Outlining, planning and IMRT dosimetry audit



## HEAD AND NECK

ART-DECO, De-ESCALATE, NIMRAD

Outlining, planning and dosimetry audit



# International streamlining

GHG



- UK sites approved for recruitment into international trials as a result of UK IMRT credentialing

- EORTC – 3 sites

- TROG – 1 site



- Dosimetry audit report shared, comments on gamma analysis, amended report, acceptance

- Streamlining nomenclature

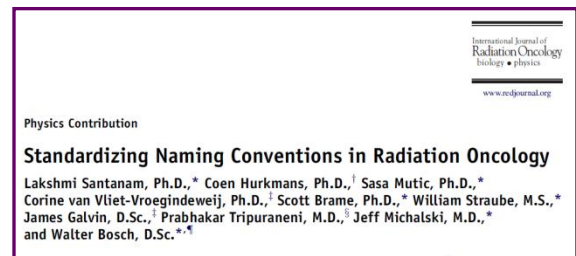
- Naming of QA processes

- Naming of volumes

- Multiple volumes with different dose levels

- Future analysis

- RTTQA adoption for new trials





# Summary

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- RTTQA infrastructure supports streamlining of processes
- Reduced workload and timely recruitment to trials
- National streamlining
  - Across trials – multiple trial participation
  - Across audit groups – collaborative working
- International streamlining
- Increase site participation and patient recruitment