

# Establishing Quality Management Baseline in the Use of Computed Tomography Machines in Kenya

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# Introduction

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- CT is an advanced electro-mechanical device with increasing rate of use in Kenya.
- Developing countries are faced with CT scanners which may be old, refurbished, under low level of QA and dose Measurements.
- There is no developed quality criteria, standardization and optimization in CT.



# Objective:

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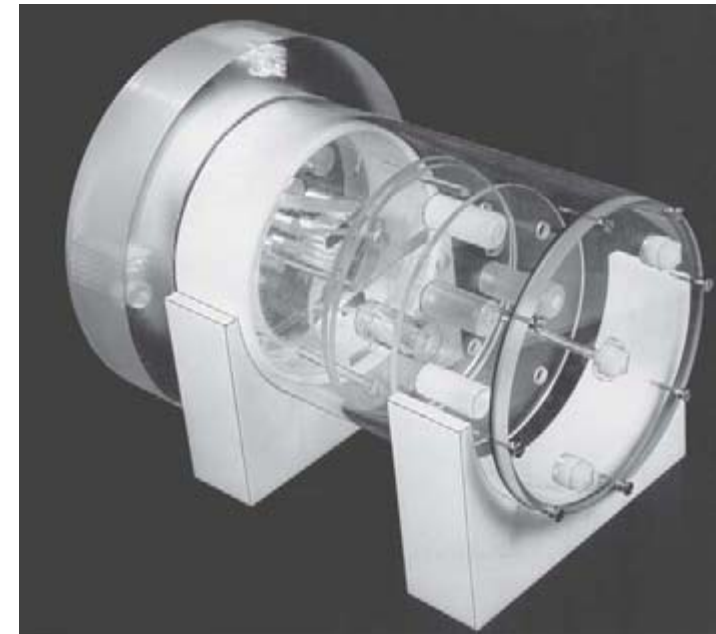
- To assess the level of quality management with respect to quality assurance and image quality in Computed Tomography scanners used in Kenya.

# Materials and Methods:

## Quality Assurance Aspects

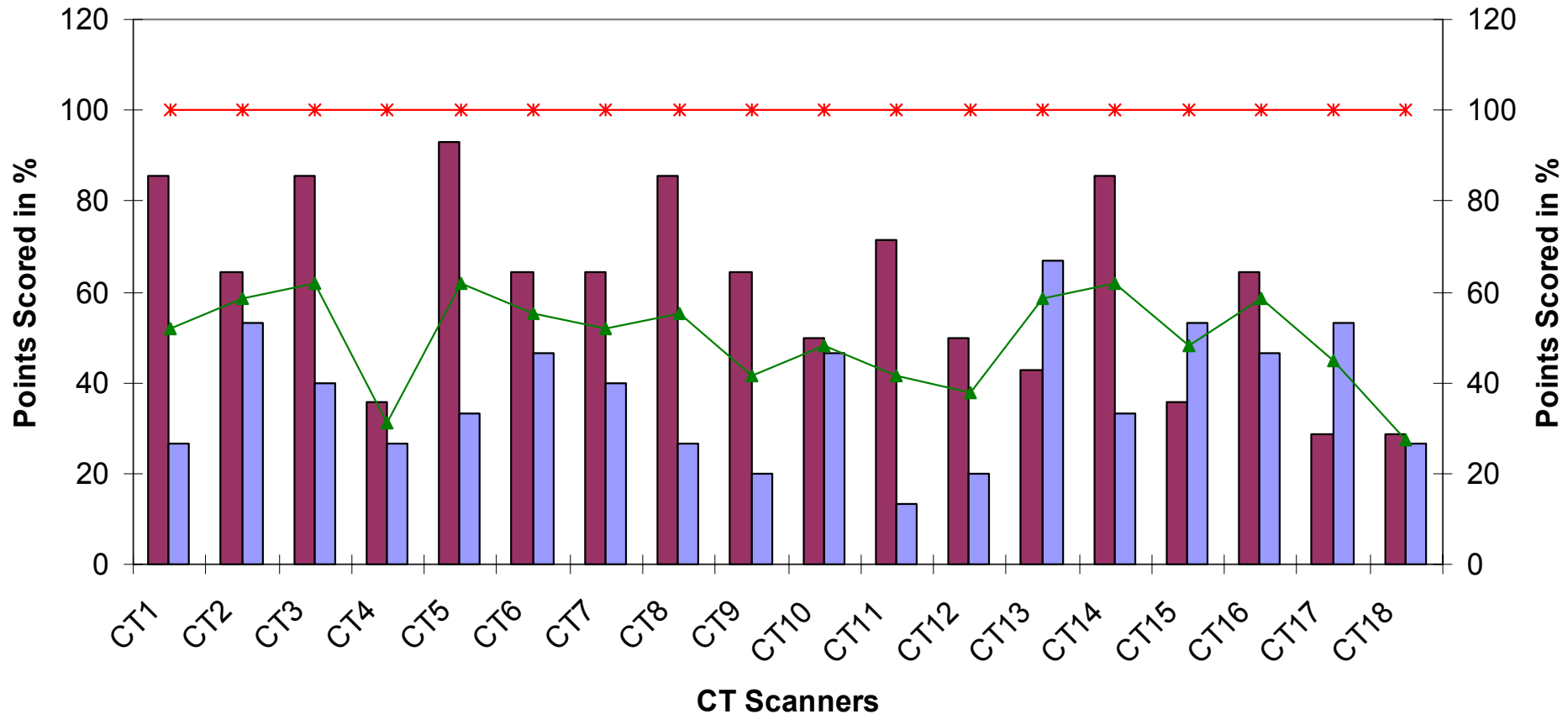
	Quality Assurance Aspects
1	Public Safety
2	Workers Safety
3	Quality Control Records
4	Personnel monitoring
5	Radiation signs
6	Patient Records
7	Patient Preparation
8	Patient Shielding
9	Code of Practice
10	In service training
11	QC Technologist
12	Service Reports
13	Quality Assurance Committee
14	Registration with Professional Society
15	Device License

## Physical Image Quality Assessment Phantom

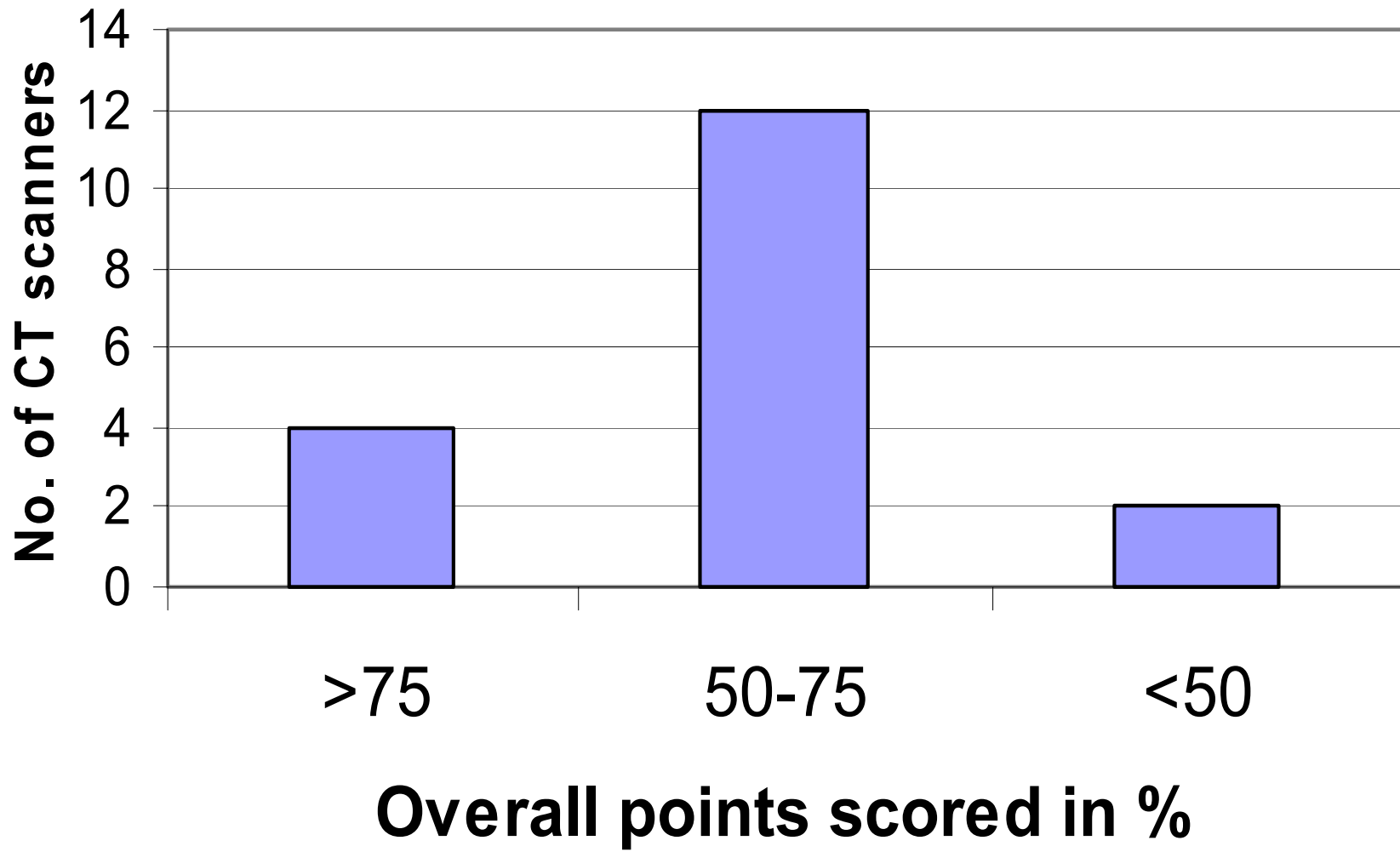


# Quality Management Results per CT scanner facility

■ IQ Scores in %   ■ QA Scores in %   ▲ Overall QM Scores in %   \* Maximum Score (%)



# Overall quality Management Performance





# Conclusion

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- The study reveals low QM in CT in Kenya.
- There is therefore a need for training, necessary regulations, professional certifications, clinical image quality guidelines and accrediting medical imaging facilities.



# Recommendations

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- Sensitization on optimization and appropriateness criteria for CT examinations especially in children.
- Establishment of patient dose data and diagnostic reference levels in Kenya.
- Establishing radiation protection guidelines, QM standards, regulations & Professional accreditations.





# Acknowledgement

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# Acknowledgement-IAEA Trainings

