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LIST OF ABBREVIATIONS

μ	Linear Attenuation Coefficient
AAPM	Association of Physicists in Medicine
ACR	American College of Radiology
ALARA	As Low As Reasonably Achievable
BTES	Bone Tissue Equivalent Substitute
CaCO ₃	Calcium Carbonate
CNR	Contrast to Noise Ratio
CT	Computed Tomography
DAS	Data Acquisition System
DRM	Design research methodology
DFOV	Display Field Of View
EMI	Electric and Musical Industries
FDA	Food and Drug Administration
HTV	High Temperature Vulcanizing
HU	Hounsfield Units
ICRU	International Commission on Radiation Units and Measurements
ISO	International Organization for Standardization
kVp	Kilovoltage peak
LSR	Liquid Temperature Vulcanizing
mAs	Millamperage-second
MDCT	Multi Detector Computed Tomography
MHREC	Medical and Health Research Ethics Committee
MRI	Magnetic Resonance Imaging
NPV	Negative Predictive Value
PDMS	Polydimethylsiloxane
PLA	Polylactic Acid
PPV	Positive Predictive Value
QA	Quality Assurance
QC	Quality Control
ROI	Region Of Interest
RTV	Room Temperature Vulcanizing
SD	Standard Deviation
SDCT	Single Detector Computed Tomography
SFOV	Scan Field Of View
SNR	Signal to Noise Ratio



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**A NEW TISSUE EQUIVALENT MATERIAL FOR CONSTRUCTION OF CT PHANTOM TO BE USED IN
EVALUATION OF IMAGE
QUALITY**

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SR/ SIR/ SiR	Silicone Rubber
STES	Soft Tissue Equivalent Substitute
WL	Window Level
WW	Window Width
μ_w	Linear Attenuation Coefficient of Water
ρ	Density of material