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# List of Abbreviations

<b>3DCRT</b>	three dimensional conformal radiotherapy	<b>LA</b>	left atrium
<b>4DCT</b>	time resolved computed tomography	<b>LAA</b>	left atrial appendage
<b>AF</b>	atrial fibrillation	<b>LCA</b>	left coronary artery
<b>AP</b>	anterior-posterior	<b>LEM</b>	local effect model
<b>AV</b>	atrioventricular	<b>LET</b>	linear energy transfer
<b>CNAO</b>	centro nazionale di adroterapia oncologica	<b>LR</b>	left-right
<b>COPD</b>	chronic obstructive pulmonary disease	<b>LV</b>	left ventricle
<b>CT</b>	computed tomography	<b>MDACC</b>	MD Anderson Cancer Center
<b>CTV</b>	clinical target volume	<b>MLC</b>	multileaf collimators
<b>CTI</b>	cavotricuspid isthmus	<b>MP</b>	motion phase
<b>D5-D95</b>	measure for dose homogeneity	<b>MRI</b>	magnetic resonance imaging
<b>DKFZ</b>	German cancer research center	<b>NIRS</b>	National Institute of Radiological Sciences
<b>DSB</b>	double strand breaks	<b>OAR</b>	organ at risk
<b>DVH</b>	dose volume histogram	<b>PET</b>	positron emission tomography
<b>ECG</b>	Electrocardiograph	<b>PMMA</b>	polymethyl methacrylate
<b>FWHM</b>	full width at half maximum	<b>PSI</b>	Paul Scherer Institut
<b>GSI</b>	GSI Helmholtzzentrum für Schwerionenforschung GmbH	<b>PTV</b>	planning target volume
<b>GTV</b>	gross tumor volume	<b>PV</b>	pulmonary vein
<b>GyE</b>	Gray equivalent	<b>RA</b>	right atrium
<b>HIT</b>	Heidelberg Ion-Beam Therapy Centre	<b>RBE</b>	relative biological effectiveness
<b>HU</b>	Hounsfield unit	<b>RCA</b>	right coronary artery
<b>IES</b>	iso-energy slice	<b>RV</b>	right ventricle
<b>IM</b>	internal margin	<b>SA</b>	sinoatrial
<b>IMPT</b>	intensity modulated particle therapy	<b>SI</b>	superior-inferior
<b>IMPT(OAR)</b>	IMPT with included OAR	<b>SOBP</b>	spread out Bragg peak
<b>IMRT</b>	intensity modulated radiotherapy	<b>SSB</b>	single strand break
<b>IPV</b>	inferior pulmonary vein	<b>SVC</b>	superior vena cava
<b>ITV</b>	internal target volume	<b>TRiP</b>	treatment planning for carbon ion radiotherapy
<b>IVC</b>	inferior vena cava	<b>V95</b>	measure for dose coverage
		<b>V107</b>	measure of over dosage

