Radiotherapy for lung cancer
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Appendices

Abbreviations

α/β ratio  
the ratio of the linear (α) and the quadratic(β) parameters in the LQ model; often used to quantify the fractionation sensitivity

AP  
anterior-posterior

CBCT  
cone beam CT

CC  
cranial caudal

CFRT  
conventional fractionated radiotherapy

COPD  
chronic obstructive pulmonary disease

CR  
complete response

CT  
Computer tomography

DE  
dose escalation

DSS  
disease-specific survival

DLCO  
diffusion capacity for carbon monoxide

DFH  
dose function histogram

DSS  
disease specific survival

DRC  
dose response curve

DRR  
digital reconstructed radiograph

dT  
threshold dose

DVH  
dose volume histogram

EPID  
electronic portal image device

FDG  
[18F]fluorodeoxyglucose

FEV1  
forced expiratory volume in 1 second

FVC  
forced vital capacity

GTV  
gross target volume

Gy  
Gray, unit of irradiation

IMRT  
Intensity Modulated Radiotherapy

kV  
kilovolt

Ln(L)  
logarithm of the likelihood function

LR  
left-right

LQ  
Linear Quadratic

LQ(L)  
Linear Quadratic Linear

MLD  
mean lung dose

MqLd  
mean-perfusion lung dose

MV  
megavolt

MBq  
Mega Becquerel, unit of radioactivity

CTC  
Common Toxicity Criteria

NSCLC  
non-small cell lung cancer

NTCP  
normal tissue complication probability
### Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>NTD</td>
<td>normalized total dose</td>
</tr>
<tr>
<td>OpRP</td>
<td>overall reperfusion weighted response parameter</td>
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<tr>
<td>OS</td>
<td>overall survival</td>
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<tr>
<td>OSEM</td>
<td>ordered subset expectation maximization</td>
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<tr>
<td>PD</td>
<td>progressive disease</td>
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<tr>
<td>PET</td>
<td>positron emission tomography</td>
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<td>PFT</td>
<td>pulmonary function test</td>
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<td>PORT</td>
<td>postoperative radiotherapy</td>
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<td>PR</td>
<td>partial response</td>
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<tr>
<td>RECIST</td>
<td>Response Evaluation Criteria in Solid Tumours</td>
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<tr>
<td>ROC</td>
<td>receiver operating curve</td>
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<td>RP</td>
<td>radiation pneumonitis</td>
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<tr>
<td>RT</td>
<td>radiotherapy</td>
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<tr>
<td>$\sigma$</td>
<td>random setup error</td>
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<td>$\Sigma$</td>
<td>systematic setup error</td>
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<td>SAL</td>
<td>shrinkage action level</td>
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<td>SBRT</td>
<td>stereotactic body radiotherapy</td>
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<td>SD</td>
<td>stable disease</td>
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<td>SPECT</td>
<td>Single photon emission computed tomography</td>
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<tr>
<td>SUV</td>
<td>Standard Uptake Value</td>
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<tr>
<td>TD$_{50}$</td>
<td>dose for a 50% complication probability</td>
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<tr>
<td>TNM</td>
<td>Tumor, Nodes and Metastasis staging system of cancer</td>
</tr>
<tr>
<td>VA</td>
<td>alveolar volume</td>
</tr>
<tr>
<td>$V_x$</td>
<td>lung volume receiving doses higher than x</td>
</tr>
<tr>
<td>$V_{50}$</td>
<td>$V_x$ for a 50% NTCP</td>
</tr>
<tr>
<td>V70</td>
<td>VO70</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organization</td>
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