Radiotherapy for lung cancer
Borst, G.R.

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Appendices

Abbreviations

\(\alpha/\beta\) ratio
- the ratio of the linear (\(\alpha\)) and the quadratic (\(\beta\)) 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

d_{t}
- threshold dose

DVH
- dose volume histogram

EPID
- electronic portal image device

FDG
- \([^{18}\text{F}]\)fluorodeoxyglucose

FEV\textsubscript{1}
- 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

MpLD
- 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>
</tr>
</thead>
<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>
</tr>
<tr>
<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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<tr>
<td>RP</td>
<td>radiation pneumonitis</td>
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<tr>
<td>RT</td>
<td>radiotherapy</td>
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<tr>
<td>σ</td>
<td>random setup error</td>
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<tr>
<td>Σ</td>
<td>systematic setup error</td>
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<tr>
<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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<tr>
<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_{x,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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