Radiotherapy for lung cancer
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Citation for published version (APA):

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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\( _1 \)  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

MpiLD  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

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