

Tabel: Literatuur over studies met 40 of meer patiënten over stereotactische radiotherapie tot en na 2008

Study	N	Schedule	BED	Median follow-up (months)	Actuarial local control	Complications	Remarks
Baumann et al 2006	138	30-48 Gy in 2-4 fractions	60-120 Gy	33	3-year, 85%	Atelectasis grade >2, 2%; Pneumonitis grade >2, 1%; Rib fracture, 4%	Multicenter with variety of dose schedules
Lagerwaard et al 2008	206	3 x 20 Gy; 5 x 12 Gy 8 x 7.5 Gy	180 Gy 132 Gy 105	12	2-yr, 94%	Pneumonitis grade>2, 3%; Rib fracture, 2%	Review of a prospective database
Nagata et al 2005	45	4 x 12 Gy	106 Gy	30	2-yr. 98%	Pneumonitis grade >2, 0%	Prospective casestudy
Nymann et al 2006	45	3 x 15 Gy	113 Gy	43	80%	Pneumonitis grade >2, 0%; Ribfracture, 4%	Retrospective study
Onishi et al 2007	257	18-75 Gy in 1-22 fractions	Variety	38	5-yr BED> 100, 84%; 5-yr BED < 100, 37%	Pneumonitis grade >2, 5%	Multicenter with variety of dose schedules
Uematsu et al 2002	50	50-60 Gy in 5-10 fractions	Variety	36	94%	Pneumonitis grade >2, 0%; Rib fracture , 4%	In some patiënts SRT was given after conventional treatment
Xia et al 2006	43	5 x 10 Gy	100 Gy	27	3-yr, 95%	Pneumonitis grade >2, 2%	25 stage I and 18 Stage II primary lung
Grills et al 2012	505 (5 intl institutions)	20 – 64 Gy in 1-15 frctions	60 – 180Gy	19	2yr: 85% (BED<105); 96% (BED>105)	Pneumonitis >G2: 2%; ribfractures: 8%	Multicenter; 95% with CBCT
Haasbeek et al 2011	63 centrally located	8 x 7,5 Gy	105 Gy	35	3 yr 93%	Late G3-tox: chest wall pain (2/63); dyspnea (2/63).	Results comparable with peripheral lesions

Nuyttens et al 2012	56 centrally located (incl 15 metastatic)	6x8Gy; 5x9-12Gy;	86 – 132 Gy	23	2-yr: 85% if BED>100; 60% if BED<100	G4-5: 0%; Pneumonitis>G2: 11%	“central” lesion needs better definition
Senthi et al 2012	676 patterns of rec	54 – 60 Gy in 3 – 8 fractions	105 – 151 Gy	33	5-yr: LC 89%; regional contr: 87%; distant contr 80%	n.r.	Pattern of recurrence: 46% distant only; 34% locoregional only
Senthi et al 2013	315 central NSCLC: syst rev	35 – 60 Gy in 4 – 10 fractions	60 – 180 Gy ₁₀	Mortality 2,7%; 1% if BED < 210 Gy ₃	>85% if BED > 100 Gy ₁₀	G3 toxicity < 9%	20 studies; normal organ constraints need more research
Solda et al 2013	3771 (SBRT) syst rev SBRT vs surgery	83 studies; various fractionation	n.r.	> 12	Weighted 2y LC: 91%	2y OS: SBRT 70% (67-72); surgery 68% (66-70)	Wide variation of LC (50-100%);
Timmerman et al 2013	70	3 x 20 Gy 3 x 22 Gy	180 Gy 211 Gy	18	2-yr, 96%	Pericardial effusion grade V, 1%; Bleeding grade V, 1% Bacterial pneumonia grade V, 6%	All observed health problems qualified as radiation toxicity
Widder et al 2011	202 SBRT vs 27 3D-RT	3x20Gy; 5x12Gy;8x8,5Gy	105 – 180 Gy	13	2yr: SBRT 95%; 3DRT 78%	Physical functioning decreasing after 3DRT, not after SBRT	2yr OS better after SBRT: 72% vs 48%