Supplementary file 1

Observer agreement

Methods

The strengths of the relation between the two sets of measurements were assessed with intraclass-correlation coefficients (ICC). Observer agreement for the assessment of tumor-pleura relationship, pleural indention, density type, lobulation, spiculation, air bronchogram and vascular convergence sign was calculated and evaluated using κ-statistics.

Results

The relation between the two sets of measurements was strong for maximum standardized uptake value [ICC: 0.987, 95% confidence interval (CI) 0.970 ~ 0.994, $P < 0.001$], tumor size (ICC: 0.970, 95% CI 0.958 ~ 0.978, $P < 0.001$), solid component size (ICC: 0.963, 95% CI 0.949 ~ 0.973), minimum distance between lesion and pleura (ICC: 0.962, 95% CI 0.948 ~ 0.973), pleural contact length (ICC: 0.996, 95% CI 0.995 ~ 0.997) and solid pleural contact length (ICC: 0.998, 95% CI 0.997 ~ 0.998). Observer agreement for assessment of tumor-pleura relationship, pleural indention, density type, lobulation, spiculation, air bronchogram and vascular convergence sign was excellent, with kappa values were 0.971, 0.879, 0.940, 0.877, 0.925, 0.955, 0.921, respectively.