

Supplementary Table 2 -Correlation of CT parameters and histological classifications

| | | WHO | | | | | p | SUSTER AND MORAN | | p |
|--|---------------|-----------|------------|------------|-----------|------------|---------------|---------------------|---------------------------|---------------|
| | | A | AB | B1 | B2 | B3 | | Well-differentiated | Moderately-differentiated | |
| Long axis (median, mm) | < 53.5 | 3 (75%) | 6 (42.9%) | 5 (45.5%) | 3 (37.5%) | 8 (61.5%) | 0.63 | 17 (45.9%) | 8 (61.5%) | 0.33 |
| | > 53.5 | 1 (25%) | 8 (57.1%) | 6 (55.5%) | 5 (62.5%) | 5 (38.5%) | | 20 (54.1%) | 5 (38.5%) | |
| Short axis (median, mm) | < 36.5 | 2 (50%) | 7 (50%) | 6 (54.5%) | 3 (37.5%) | 7 (53.8%) | 0.95 | 18 (48.6%) | 7 (53.8%) | 0.75 |
| | > 36.5 | 2 (50%) | 7 (50%) | 5 (45.5%) | 5 (62.5%) | 6 (46.2%) | | 19 (51.4%) | 6 (46.2%) | |
| Volume (median, mm ³) | < 60 | 3 (75%) | 7 (50%) | 6 (54.5%) | 2 (25%) | 7 (53.8%) | 0.53 | 18 (48.6%) | 7 (53.8%) | 0.75 |
| | > 60 | 1 (25%) | 7 (50%) | 5 (45.5%) | 6 (75%) | 6 (46.2%) | | 19 (51.4%) | 6 (46.2%) | |
| Length of pleural contact (median, mm) | < 64 | 4 (100%) | 7 (50%) | 5 (45.5%) | 2 (25%) | 7 (53.8%) | 0.19 | 18 (48.6%) | 7 (53.8%) | 0.75 |
| | > 64 | 0 | 7 (50%) | 6 (55.5%) | 6 (75%) | 6 (46.2%) | | 19 (51.4%) | 6 (46.2%) | |
| Shape | Oval | 3 (75%) | 13 (92.9%) | 6 (54.5%) | 5 (62.5%) | 3 (23.1%) | 0.007* | 27 (73%) | 3 (23.1) | 0.002* |
| | Irregular | 1 (25%) | 1 (7.1%) | 5 (45.5%) | 3 (37.5%) | 10 (76.9%) | | 10 (27%) | 10 (76.9%) | |
| Contours | Regular | 2 (50%) | 9 (64.3%) | 4 (36.4%) | 4 (50%) | 0 | 0.012* | 19 (51.4%) | 0 | 0.001* |
| | Irregular | 2 (50%) | 5 (35.7%) | 7 (63.6%) | 4 (50%) | 13 (100%) | | 18 (48.6%) | 13 (100%) | |
| Necrosis | Yes | 2 (50%) | 6 (42.9%) | 6 (54.5%) | 4 (50%) | 6 (46.2%) | 0.98 | 18 (48.6%) | 6 (46.2%) | 0.88 |
| | No | 2 (50%) | 8 (57.1%) | 5 (45.5%) | 4 (50%) | 7 (53.8%) | | 19 (51.4%) | 7 (53.8%) | |
| Calcifications | Yes | 2 (50%) | 3 (21.4%) | 0 | 3 (37.5%) | 5 (38.5%) | 0.145 | 8 (21.6%) | 5 (38.5%) | 0.23 |
| | No | 2 (50%) | 11 (78.6%) | 11 (100%) | 5 (62.5%) | 8 (61.5%) | | 29 (78.4%) | 8 (61.5%) | |
| Lymph node enlargements | Yes | 1 (25%) | 2 (14.3%) | 2 (18.2%) | 3 (37.5%) | 2 (15.4%) | 0.77 | 8 (21.6%) | 2 (15.4%) | 0.22 |
| | No | 3 (75%) | 12 (85.7%) | 9 (81.9%) | 5 (62.5%) | 11 (84.6%) | | 29 (78.4%) | 11 (84.6%) | |
| Pleural effusion | Yes | 1 (25%) | 2 (14.3%) | 0 | 1 (12.5%) | 0 | 0.33 | 4 (10.6%) | 0 | 0.22 |
| | No | 3 (75%) | 12 (85.7%) | 11 (100%) | 7 (87.5%) | 13 (100%) | | 33 (89.2%) | 13 (100%) | |
| Pericardial effusion | Yes | 1 (25%) | 2 (14.3%) | 0 | 0 | 2 (15.4%) | 0.43 | 3 (8.1%) | 2 (15.4%) | 0.45 |
| | No | 3 (75%) | 12 (85.7%) | 11 (100%) | 8 (100%) | 11 (84.6%) | | 34 (91.9%) | 11 (84.6%) | |
| Invasion of mediastinal fat | Yes | 1 (25%) | 3 (21.4%) | 6 (54.5%) | 4 (50%) | 9 (69.2%) | 0.12 | 14 (37.8%) | 9 (69.2%) | 0.051 |
| | No | 3 (75%) | 11 (78.6%) | 5 (45.5%) | 4 (50%) | 4 (30.8%) | | 23 (62.2%) | 4 (30.8%) | |
| Contact with mediastinal vessels | Yes | 3 (75%) | 11 (78.6%) | 10 (90.9%) | 7 (87.5%) | 13 (100%) | 0.45 | 31 (83.6%) | 13 (100%) | 0.12 |
| | No | 1 (25%) | 3 (21.4%) | 1 (9.1%) | 1 (12.5%) | 0 | | 6 (16.2%) | 0 | |
| Pericardial contact | Yes | 2 (50%) | 10 (71.4%) | 9 (81.8%) | 6 (75%) | 13 (100%) | 0.18 | 27 (73%) | 13 (100%) | 0.036* |
| | No | 2 (50%) | 4 (28.6%) | 2 (18.2%) | 2 (25%) | 0 | | 10 (27%) | 0 | |
| Lung invasion | Yes | 0 | 1 (7.1%) | 0 | 0 | 1 (7.7%) | 0.78 | 1 (2.7%) | 1 (7.7%) | 0.43 |
| | No | 4 (100%) | 13 (92.9%) | 11 (100%) | 8 (100%) | 12 (92.3%) | | 36 (97.3%) | 12 (92.3%) | |
| Pleural invasion | Yes | 1 (25%) | 1 (7.1%) | 0 | 0 | 0 | 0.18 | 2 (5.4%) | 0 | 0.39 |
| | No | 3 (75%) | 13 (92.9%) | 11 (100%) | 8 (100%) | 13 (100%) | | 35 (94.6%) | 13 (100%) | |
| Contrast enhancement diffusion pattern | Homogeneous | 2 (66.7%) | 2 (25%) | 3 (37.5%) | 1 (16.7%) | 3 (33.3%) | 0.63 | 8 (32%) | 3 (33.3%) | 0.94 |
| | Inhomogeneous | 1 (33.3%) | 6 (75%) | 5 (62.5%) | 5 (83.3%) | 6 (66.7%) | | 17 (68%) | 6 (66.%) | |
| Laterality | Right | 0 | 4 (28.6%) | 4 (36.4%) | 2 (25%) | 3 (23.1%) | 0.07 | 10 (27%) | 3 (23.1%) | 0.02* |
| | Left | 4 (100%) | 9 (64.3%) | 4 (36.4%) | 6 (75%) | 4 (30.8%) | | 23 (62.2%) | 4 (30.8%) | |
| | Median | 0 | 1 (7.1%) | 3 (27.3%) | 0 | 6 (46.2%) | | 4 (10.8%) | 6 (46.2%) | |