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| **Supplementary Table 1. Clinical characteristics of patients in the training and test cohorts** | | | |  |
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| **Characteristic** |  | **Training cohort (*n* = 172)** | **Test cohort (*n* = 171)** | ***p-*value** |
| Average age, years |  | 59.5 | 59.4 | 0.893 |
| Sex, % | Female | 55 (32.0) | 55(32.2) | 0.926 |
|  | Male | 117 (68.0) | 116 (67.8) |  |
| Grade, % | G1-2 | 106 (61.6) | 108(63.1) | 0.916 |
|  | G3-4 | 63 (36.6) | 61 (35.7) |  |
|  | unknown | 3 (1.7) | 2 (1.2) |  |
| Stage, % | Stage I-II | 121 (70.3) | 117(68.5) | 0.948 |
|  | Stage III–IV | 40 (23.3) | 43 (25.1) |  |
|  | unknow | 11 (6.4) | 11 (6.4) |  |
| T, % | T1-2 | 128 (74.4) | 124(72.5) | 0.818 |
|  | T3-4 | 43 (25.0) | 45 (26.3) |  |
|  | unknow | 1 (0.6) | 2 (1.2) |  |
| N, % | N0 | 119 (69.2) | 120(70.2) | 0.352 |
|  | N1 | 3 (1.7) | 0 (0.0) |  |
|  | NX | 50 (29.1) | 51 (29.8) |  |
| M, % | M0 | 122 (70.9) | 123(71.9) | 1 |
|  | M1 | 2 (1.2) | 1 (0.6) |  |
|  | MX | 48 (27.9) | 47 (27.5) |  |