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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)  | 　 |