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| **Table.** Cox proportional hazard 10-year overall survival models of NMIBC patient outcomes | | | | | |
|  |  |  | Survival months | Multivariable model | |
|  | n (%) deceased | *n* (%) alive | Mean# | HR (95% CI) | P value |
| Age | 180 (29.9) | 423 (70.1) | 104.3 | 1.07 (1.05-1.10) | 7.7E-11 |
| Age acceleration | 180 (29.9) | 423 (70.1) | 104.3 | 1.04 (1.02-1.06) | 0.001 |
| Sex |  |  |  |  |  |
| Male | 156 (34.1) | 301 (65.9) | 102.2 | Referent group |  |
| Female | 24 (16.4) | 122 (83.6) | 111.1 | 0.53 (0.35-0.82) | 0.005 |
| Tumor grade |  |  |  |  |  |
| 1 + 2 | 118 (26.1) | 334 (73.9) | 106.6 | Referent group |  |
| 3 + 4 | 62 (41.1) | 89 (58.9) | 97.7 | 1.55 (1.12-2.12) | 0.008 |
| Smoking status |  |  |  |  |  |
| Non-smoker | 19 (18.4) | 84 (81.6) | 110.8 | Referent group |  |
| Ever-smoker | 161 (32.2) | 339 (67.8) | 103.0 | 1.43 (0.89-2.32) | 0.141 |
| BCG treatment |  |  |  |  |  |
| No | 152 (29.6) | 362 (70.4) | 104.8 | Referent group |  |
| Yes | 28 (31.5) | 61 (68.5) | 101.9 | 0.99 (0.65-1.51) | 0.946 |
| Group |  |  |  |  |  |
| Group 1 | 106 (22.9) | 357 (77.1) | 109.6 | Referent group |  |
| Group 2 | 72 (52.2) | 66 (47.8) | 88.0 | 2.42 (1.77-3.29) | 2.2E-8 |
| HR: hazard ratio, CI: confidence interval, mdNLR: methylation-derived neutrophil to lymphocyte ratio  \*: Winsorization was used on the top 2% values for fitting linearity assumption.  All covariates modeled met proportionality assumptions  #: the median survival month for each variable is 120. | | | | | |