**S3 Table. Univariable Cox analysis (see Table 2 for multivariable analysis).**

|  |  |
| --- | --- |
| **Study** | **Risk Factor** |
| **DLS** | **Age** | **Male** | **Stage** |
| HR | p | HR | p | HR | p | HR | p |
| **BLCA** | 0.81[0.50, 1.32] | 0.3935 | 1.31[0.91, 1.90] | 0.1516 | 1.41[0.54, 3.70] | 0.4801 | **2.48****[1.47, 4.20]** | **0.0007** |
| **BRCA** | **3.86****[2.15, 6.96]** | **0.0000** | 0.99[0.71, 1.38] | 0.9509 | NaN | NaN | **2.62****[1.54, 4.47]** | **0.0004** |
| **COAD** | **2.09****[1.21, 3.63]** | **0.0087** | 0.68[0.45, 1.03] | 0.0706 | 0.99[0.33, 2.96] | 0.9827 | **6.66****[2.76, 16.09]** | **0.0000** |
| **HNSC** | 1.82[0.98, 3.40] | 0.0583 | 0.96[0.66, 1.41] | 0.8406 | 1.07[0.47, 2.45] | 0.8706 | **1.98****[1.08, 3.64]** | **0.0274** |
| **KIRC** | **2.82****[1.85, 4.32]** | **0.0000** | 1.14[0.86, 1.52] | 0.3466 | 0.57[0.27, 1.22] | 0.1500 | **3.22****[2.12, 4.90]** | **0.0000** |
| **LIHC** | **3.26****[1.93, 5.53]** | **0.0000** | 0.97[0.70, 1.35] | 0.8658 | 0.90[0.35, 2.32] | 0.8298 | **2.60****[1.52, 4.42]** | **0.0004** |
| **LUAD** | 1.06[0.68, 1.65] | 0.7954 | 0.78[0.56, 1.09] | 0.1464 | 1.35[0.62, 2.97] | 0.4505 | **2.06****[1.48, 2.85]** | **0.0000** |
| **LUSC** | 1.98[0.99, 3.94] | 0.0517 | 0.93[0.58, 1.48] | 0.7615 | 1.69[0.62, 4.62] | 0.3075 | **1.68****[1.05, 2.68]** | **0.0291** |
| **OV** | 1.19[0.90, 1.55] | 0.2168 | 1.22[0.98, 1.50] | 0.0703 | NaN | NaN | 1.35[0.90, 2.03] | 0.1446 |
| **STAD** | 1.74[1.05, 2.90] | 0.0329 | 0.89[0.64, 1.25] | 0.5090 | 1.86[0.78, 4.47] | 0.1636 | **2.26****[1.34, 3.82]** | **0.0023** |

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