**S1 Table. The association of clinical characteristics and metastasis occurrence between creatine kinase levels and squamous cell carcinoma patients**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Negative****N=190** | **positive****N=117** | **Total****N=307** | **P value** |
| **Basic Characteristic** |  |  |  |  |
| **Age** |  |  |  |  |
| <45 years 45-60 years>60 years | 8(4.2%)71(37.4%)111(58.4%) | 2(1.7%)58(49.6%)57(48.7%) | 10129168 | 0.074 |
| **Sex** |  |  |  |  |
| MaleFemale | 172(90.5%)18(9.5%) | 107(91.5%)10(8.5%) | 27928 | 0.784 |
| **Stages** |  |  |  |  |
| IⅡⅢⅣ | 15(7.9%)20(10.5%)71(37.4%）84(44.2%） | 12(10.3%)21(17.9%)45(38.5%）39(33.3%） | 2741116123 | 0.132 |
| **Smoke status** |  |  |  |  |
| NoYes | 30(15,8%)160(84.2%) | 26(22.2%)91(77.8%) | 56251 | 0.156 |
| **Metastasis** |  |  |  |  |
| **Brain** |  |  |  |  |
| NoYes | 182(95.8%)8(4.2%) | 112(95.7%)5(4.3%) | 29413 | 0.979 |
| **Bone** |  |  |  |  |
| NoYes | 158(83.2%)32(16.8%) | 109(93.2%)8(6.8%) | 26740 | ***<0.05\**** |
| **Liver**  |  |  |  |  |
| NoYes | 173(91.1%)17(8.9%) | 110(94.0%)7(6.0%) | 28324 | 0.347 |
| **Adrenal gland** |  |  |  |  |
| NoYes | 180(94.7%)10(5.3%) | 114(97.4%)3(2.6%) | 29413 | 0.254 |
| **Lymph node** |  |  |  |  |
| NoYes | 78(41.1%)112(58.9%) | 50(42.7%)67(57.3%) | 128179 | 0.772 |
| **Intrapulmonary** |  |  |  |  |
| NoYes | 171(90.0%)19(10.0%) | 106(90.6%)11(9.4%) | 27730 | 0.864 |
| **Pleural** |  |  |  |  |
| NoYes | 173(91.1%)17(8.9%) | 107(91.5%)10(8.5%) | 28027 | 0.904 |
| **Mediastinal** |  |  |  |  |
| NoYes | 183(96.3%)7(3.7%) | 115(98.3%)2(1.7%) | 2989 | 0.319 |

\*p<0.05, \*\*p<0.001