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| **Supplementary Table 12. Univariate and multivariate COX analyses of the lncRNA-based classifier for OS.**  |
| Prognostic parameter | Univariate analysis |  | Multivariate analysis |
| HR | 95% CI | P value |  | HR | 95% CI | P value |
| **Training Cohort** |  |  |  |  |  |  |  |
| RiskScore | 7.608 | 4.143-13.971 | **<0.001** |  | 24.461 | 8.192-73.039 | **<0.001** |
| Age  | 0.867 | 0.503-1.495 | 0.608 |  |  |  |  |
| M | 4.373 | 1.335-14.326 | **0.015** |  | 5.704 | 1.313-24.777 | **0.020** |
| NStage |  3.172 |  1.805-5.574 |  **<0.001** |  | 1.616 | 0.653-3.997 | 0.299 |
| T classification | 3.035 | 1.782-5.170 | **<0.001** |  | 1.616 | 0.653-3.997 | 0.299 |
| Bilirubin | 1.143 | 0.877-1.488 | 0.323 |  |  |  |  |
| Child pugh classification Performance Status Family HistoryFraction Genome AlteredGradeAdjacent hepatic tissue inflammationHBVHCVAlcoholLiver fibrosis ishak score categoryMutation CountPlatelet countRace CategoryAlbuminGenderVascular InvasionBMIAFP | 0.7442.1321.0231.8480.9991.1590.5090.8171.2350.9301.0011.0001.1680.9990.7130.8021.0220.987 | 0.873-6.0811.539-2.9520.566-1.8490.473-7.2170.577-1.7300.667-2.0110.263-0.9880.369-1.8110.707-2.1570.748-1.1560.999-1.0031.000-1.0000.881-1.5480.994-1.0040.412-1.2340.486-1.3261.002-1.0430.924-1.054 | 0.092**<0.001**0.9390.3770.9990.601**0.046**0.6190.4590.5130.4520.3570.2790.7400.2270.391**0.035**0.689 |  | 1.7481.041 1.0931.000 | 1.154-2.6500.433-2.504 0.564-2.1200.944-1.060 | **0.008**0.929 0.7920.992 |
| **Test Cohort** |  |  |  |  |  |  |  |
| RiskScore | 3.349 | 1.727-6.496 | **<0.001** |  | 11.785 | 3.138-44.262 | **<0.001** |
| Age | 1.348 | 0.770-2.362 | 0.296 |  |  |  |  |
| M |   |   |   |  |  |  |  |
| NStage | 2.8922.467 | 0.674-12.4061.328-4.581 | 0.153**0.004** |  | 0.139 | 0.012-1615 | 0.115 |
| T classification | 2.642 | 1.476-4.728 | **0.001** |  | 15.232 |  1.176-197.37 | **0.037** |
| Bilirubin | 0.901 | 0.679-1.197 | 0.473 |  |  |  |  |
| Child pugh classification Performance StatusFamily HistoryFraction Genome AlteredGradeAdjacent hepatic tissue inflammationHBVHCVAlcoholLiver fibrosis ishak score categoryMutation CountPlatelet countRace CategoryAlbuminGenderVascular InvasionBMIAFP | 1.9003.6491.23626.8051.1681.0330.1561.6981.1740.9131.0011.0000.8741.0321.2381.1941.0111.093 | 0.613-5.8942.391-5.5710.690-2.2155.613-128.0090.639-2.1330.557-1.9170.056-0.4360.814-3.5440.650-2.1230.712-1.1710.999-1.0021.000-1.0000.663-1.1530.980-1.0880.665-2.3040.750-1.9000.973-1.0511.016-1.175 | 0.266**<0.001**0.476**<0.001**0.6140.918**<0.001**0.1580.5950.4750.3810.1600.3400.2310.5010.4560.565**0.018** |  |  2.98322.1620.1861.5491.004 |  1.734-5.1331.518-323.5810.037-0.9430.742-3.2340.873-1.155 |  **<0.001****0.024****0.042**0.2440.951 |
| **TCGA Cohort** |  |  |  |  |  |  |  |
| RiskScore | 5.098 | 3.289-7.900 | **<0.001** |  | 15.483 | 6.149-38.989 | **<0.001** |
| Age | 1.057 | 0.717-1.558 | 0.781 |  |  |  |  |
| M | 5.141 | 1.603-16.486 | **0.006** |  | 7.703 | 1.603-37.021 | **0.011** |
| NStage | 2.5612.849 | 0.623-10.5301.885-4.305 | 0.192**<0.001** |  | 1.701 | 0.646-4.482 | 0.282 |
| T classification | 2.855 | 1.934-4.214 | **<0.001** |  |   |   |   |
| Bilirubin | 0.970 | 0.829-1.134 | 0.699 |  |  |  |  |
| Child pugh classification Performance StatusFamily HistoryFraction Genome AlteredGradeAdjacent hepatic tissue inflammationHBVHCVAlcoholLiver fibrosis ishak score categoryMutation CountPlatelet countRace CategoryAlbuminGenderVascular InvasionBMIAFP**GSE116674 Cohort**RiskScoreAgeGenderStageHBVAlcoholSmokeVascular Invasion | 2.1122.6091.1614.2191.0641.0870.3181.1511.2060.9411.0011.0001.0140.9990.8960.9901.0211.0172.9411.3033.3201.5760.7831.0991.4593.879 | 1.025-4.3502.033-3.3480.773-1.7441.583-11.2450.710-1.5930.722-1.6370.184-0.5500.674-1.9680.805-1.8070.803-1.1040.999-1.0021.000-1.0000.833-1.2350.995-1.0030.597-1.3450.704-1.3921.002-1.0410.971-1.0661.004-8.6190.491-3.4530.450-24.5110.636-3.9090.342-1.7940.443-2.7270.673-3.1631.723-8.729 | 0.043**<0.001**0.473**0.004**0.7640.689**<0.001**0.6060.3640.4570.320**0.097**0.8880.6770.5970.955**0.034**0.478**0.049**0.5950.2390.3260.5640.8390.339**0.001** |  | 1.6702.5890.3080.8051.4100.9983.3433.869 | 0.525-5.3071.355-4.9470.026-3.5980.352-1.8410.841-2.3640.953-1.045 0.986-11.3341.719-8.708 | 0.385**0.004**0.3480.6070.1920.9270.053**0.001** |
| HR, Hazard ratio; CI, confidence interval; lncRNA, long non-coding RNA. |