**Table S10. Comparison of clinical characteristics of HCC patients in VM-positive and VM-negative groups**

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| --- | --- | --- | --- |
| Characteristics | VM positive group | VM negative group | P-value |
| (n=38) | (n=42) |
| miR-215-5p | 0.316±0.107 | 0.602±0.164 | *<* 0.001\* |
| ZEB2 | 2.655±0.436 | 1.771±0.435 | *<* 0.001\* |
| Tumor size (>5cm, %) | 34 (89.47%) | 5 (11.90%) | *<* 0.001\* |
| Degree of differentiation (high, %) | 12 (31.58%) | 35 (83.33%) | *<* 0.001\* |
| TNM Staging | 5 (13.16%) | 33 (78.57%) | *<* 0.001\* |
| (Phase I-II, %) |
| Degree of cirrhosis | 34 (89.47%) | 9 (21.43%) | *<* 0.001\* |
| (Moderate+severe, %) |
| Microvascular density (MVD) | 19.785±4.817 | 15.690±5.877 | 0.001\* |
| Preoperative AFP (>20, %) | 26 (68.42%) | 9 (21.43%) | *<* 0.001\* |
| Vascular invasion (%) | 35 (92.11%) | 9 (21.43%) | *<* 0.001\* |
| Recurrent metastases (%) | 33 (86.84%) | 4 (9.52%) | *<* 0.001\* |
| BCLC stage | 27 (71.05%) | 8 (19.05%) | *<* 0.001\* |
| (Period B-C, %) |