**Supplementary Table 5. Importance calculated by Boruta for** **discriminating HPS and non-HPS patients**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variable** | **MeanImp** | **MedianImp** | **MinImp** | **MaxImp** | **Decision** |
| SpO2 | -0.56  | -0.43  | -3.03  | 0.92  | Rejected |
| MELD | -0.88  | -0.73  | -2.06  | -0.24  | Rejected |
| TBA | 0.15  | 0.25  | -1.18  | 1.58  | Rejected |
| TBIL | -1.49  | -1.40  | -2.93  | -0.31  | Rejected |
| DBIL | -0.44  | -0.11  | -3.61  | 1.67  | Rejected |
| ALB | 2.84  | 2.83  | -0.71  | 5.74  | Tentative |
| ALT | -0.27  | -0.04  | -1.52  | 1.08  | Rejected |
| AST | 0.51  | 0.19  | -0.97  | 2.63  | Rejected |
| BUN | -1.28  | -1.09  | -2.66  | -0.32  | Rejected |
| Cr | -0.34  | -0.17  | -1.83  | 1.60  | Rejected |
| Hb | 1.66  | 1.82  | 0.46  | 3.13  | Rejected |
| PT | -0.91  | -1.18  | -1.61  | 0.17  | Rejected |
| APTT | -1.22  | -1.00  | -4.15  | 0.39  | Rejected |
| Fib | 0.28  | 0.38  | -1.19  | 2.26  | Rejected |
| INR | -1.00  | -1.17  | -2.62  | 0.47  | Rejected |
| Age | 6.73  | 6.93  | 1.80  | 10.39  | Confirmed |
| BMI | 1.62  | 1.52  | -0.70  | 6.08  | Rejected |
| HypertensionY | -0.19  | 0.15  | -1.95  | 0.97  | Rejected |
| HypertensionN | -0.11  | 0.10  | -1.91  | 0.94  | Rejected |
| DiabetesY | 0.95  | 1.04  | -1.58  | 3.90  | Rejected |
| DiabetesN | 0.51  | 0.37  | -1.31  | 1.90  | Rejected |
| SexF | -0.33  | -0.40  | -2.38  | 1.98  | Rejected |
| SexM | -0.04  | -0.34  | -0.94  | 2.00  | Rejected |
| VEGF | -0.49  | -0.73  | -3.02  | 2.17  | Rejected |
| VEGFR1 | 1.01  | 1.04  | 0.05  | 2.51  | Rejected |
| VEGFR2 | 0.72  | 0.71  | -0.40  | 2.03  | Rejected |
| PLGF | 4.08  | 4.13  | 0.99  | 7.96  | Confirmed |
| SFlt-1 | 10.79  | 10.94  | 6.17  | 14.42  | Confirmed |
| sFlt-1/PLGF | 9.37  | 9.65  | 3.38  | 12.14  | Confirmed |
| shadowMax | 3.39  | 3.17  | -1.09  | 9.26  | / |
| shadowMean | -0.28  | -0.28  | -2.60  | 1.98  | / |
| shadowMin | -3.11  | -2.96  | -6.71  | -0.97  | / |

ALB, albumin; ALT, alanine aminotransferase; APTT, activated coagulation time of whole blood; AST, aspartate aminotransferase; BMI, body mass index; BUN, blood urea nitrogen; Cr, creatinine; DBIL, direct bilirubin; F, female; Fib, fibrinogen; Hb, hemoglobin; INR, international normalized ratio; M, male; MELD, model of end-stage liver disease; N, no; PLGF, placental growth factor; PLT, platelet; PT, prothrombin time; sFlt-1, soluble vascular endothelial growth factor 1; SpO2, pulse oxygen saturation; TBA, total bile acid; TBIL, total bilirubin; VEGF, vascular endothelial growth factor; VEGFR1, vascular endothelial growth factor receptor 1; VEGFR2, vascular endothelial growth factor receptor 2; Y, yes.