**Supplementary Table 4. Input variables for different models**

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| --- | --- |
| **Model** | **Input variables** |
| Merely clinical variables | Age, Sex, BMI, Hypertension, Diabetes, SpO2, MELD, TBA, TBIL, DBIL, Albumin, ALT, AST, BUN, Creatinine, Hemoglobin, Platelet, Prothrombin Time, APTT, Fibrinogen, INR |
| Serum level of VEGF family members and their receptors | VEGF, VEGFR1, VEGFR2, PLGF, sFlt-1, sFlt-1/PLGF |
| Combination of clinical data and ELISA results | Age, Sex, BMI, Hypertension, Diabetes, SpO2, MELD, TBA, TBIL, DBIL, Albumin, ALT, AST, BUN, Creatinine, Hemoglobin, Platelet, Prothrombin Time, APTT, Fibrinogen, INR, VEGF, VEGFR1, VEGFR2, PLGF, sFlt-1, sFlt-1/PLGF |

ALB, albumin; ALT, alanine aminotransferase; AST, aspartate aminotransferase; BMI, body mass index; BUN, blood urea nitrogen; DBIL, direct bilirubin; INR, international normalized ratio; MELD, model of end-stage liver disease; PLGF, placental growth factor; sFlt-1, soluble VEGFR1; SpO2, pulse oxygen saturation; TBA, total bile acid; TBIL, total bilirubin; VEGF, vascular endothelial growth factor.

Detailed information of feature selection by Boruta for discriminating HPS and non-HPS patients.