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| **Supplementary Table 1.** Coefficients and predictive capability of different combinations of individual factor |
| Variable | DCP with *TP53* | DCP with *TERT* promoter | *TP53* with *TERT* promoter |
| Coefficients |  |  |  |
|  | DCP ≥ 40 mAU/mL | 2.03 | 2.03 | NA |
|  | *TP53* mutation  | 2.38 | NA | 2.33 |
|  | *TERT* promoter mutation | NA | 2.38 | 2.33 |
| Intercept | -2.64 | -2.64 | -2.06 |
| AUC | 0.84 | 0.84 | 0.89 |
| Specificity (%) | 96 | 96 | 92 |
| Sensitivity (%) | 45 | 45 | 91 |
| DCP with *TP53*： | $P(X)=\frac{1}{1+e^{-(-2.64+2.03DCP+2.38TP53)}}$ |
| DCP with *TERT* promoter： |

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| $P(X)=\frac{1}{1+e^{-(-2.64+2.03DCP+2.38TERT promoter)}}$ |

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| *TP53* with T*ERT* promoter: | $P(X)=\frac{1}{1+e^{-(-2.06+2.33TP53+2.33TERT promoter)}}$ |
| The value is 1 point for DCP ≥ 40 mAU/mL, or presence of *TP53* mutations, or *TERT* promoter mutations, respectively. |
| DCP, des-γ-carboxy-prothrombin; AUC, area under curve. |