

$$\text{FIB-4 Score} = \frac{\text{age} \times \text{AST}}{\text{PLT} \times \sqrt{\text{ALT}}}$$

$$\text{FAST Score} = \frac{e^{-1.65 + 1.07 \times \ln(\text{LSM}) + 2.66 \times 10^{-8} \times \text{CAP}^3 - 63.3 \text{AST}^{-1}}}{1 + e^{-1.65 + 1.07 \times \ln(\text{LSM}) + 2.66 \times 10^{-8} \times \text{CAP}^3 - 63.3 \text{AST}^{-1}}}$$

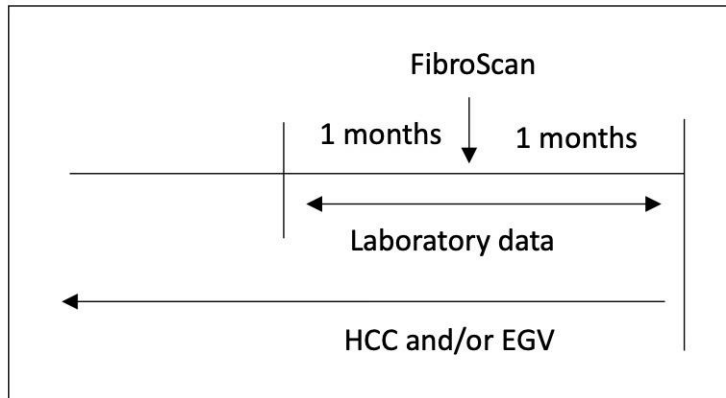
$$\text{Agile 3+} = \frac{e^{-3.92368 + 2.29714 \times \ln(\text{E}) - 0.00902 \times \text{PLT} - 0.98633 \times \frac{\text{ALT}}{\text{AST}} + 1.08636 \times \text{DM} - 0.38581 \times \text{Gender} + 0.03018 \times \text{Age}}}{1 + e^{-3.92368 + 2.29714 \times \ln(\text{E}) - 0.00902 \times \text{PLT} - 0.98633 \times \frac{\text{ALT}}{\text{AST}} + 1.08636 \times \text{DM} - 0.38581 \times \text{Gender} + 0.03018 \times \text{Age}}}$$

$$\text{Agile 4} = \frac{e^{7.50139 - 15.42498 \times \frac{1}{\sqrt{\text{E}}} - 0.01378 \times \text{PLT} - 1.41149 \times \frac{\text{ALT}}{\text{AST}} - 0.53281 \times \text{Gender} + 0.41741 \times \text{DM}}}{1 + e^{7.50139 - 15.42498 \times \frac{1}{\sqrt{\text{E}}} - 0.01378 \times \text{PLT} - 1.41149 \times \frac{\text{ALT}}{\text{AST}} - 0.53281 \times \text{Gender} + 0.41741 \times \text{DM}}}$$

Supplemental Figure 1

Supplemental Figure 1 Formula of each VCTE-based scoring system.

Study protocol



Supplemental Figure 2

Supplemental Figure 2 A schema of study protocol.

Supplemental Table 1 The impact of each parameter on the scoring systems

	data	FIB-4	FAST	Agile 3+	Agile 4
LSM	↑	N/I	↑	↑	↑
CAP	↑	N/I	↑	N/I	N/I
AST	↑	↑	↑	↑	↑
ALT	↑	↓	N/I	↓	↓
PLT	↑	↓	N/I	↓	↓
gender	Men	N/I	N/I	↓	↓
DM	Yes	N/I	N/I	↑	↑
Age	↑	↑	N/I	↑	N/I

N/I: Not included in scoring system; PLT: Platelet count; DM: Diabetes mellitus;

↑: Increase; ↓: Decrease.

Supplemental Table 2 Stratification of each VCTE-based scoring system and fibrosis marker

	Risk		
	Low	Intermediate	High
FIB-4 index	< 1.3	1.3-2.67	< 2.67
FAST	< 0.35	0.35-0.66	≤ 0.67
Agile 3+	< 0.45	0.45-0.68	< 0.68
Agile 4	< 0.25	0.25-0.57	< 0.57
LSM	≤ 6.1	6.2-11.8	≤ 11.9
M2BPGi	≤ 1.2	1.3-2.3	≤ 2.4