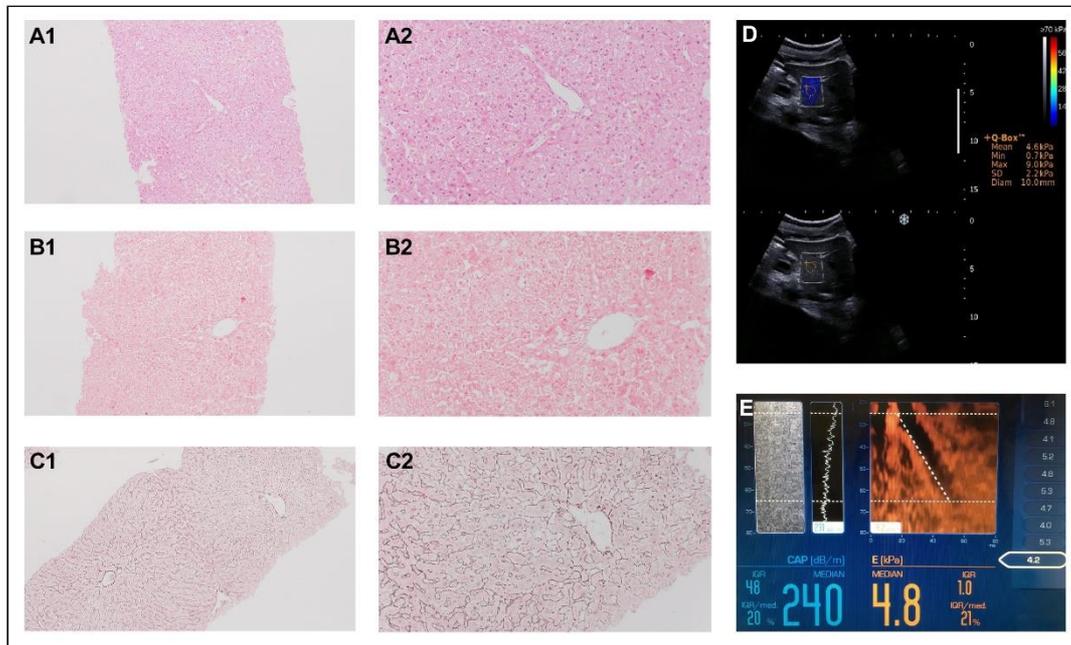
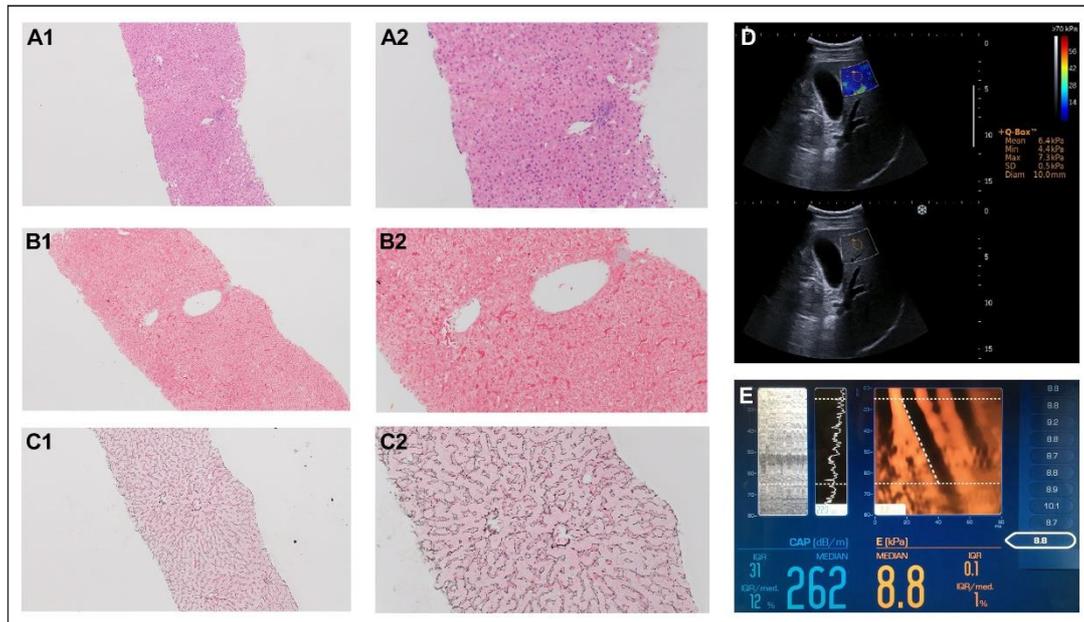


Supplementary figure 1 Pathological images of liver sections and the corresponding shear wave elastography and transient elastography images for an F0 patient.



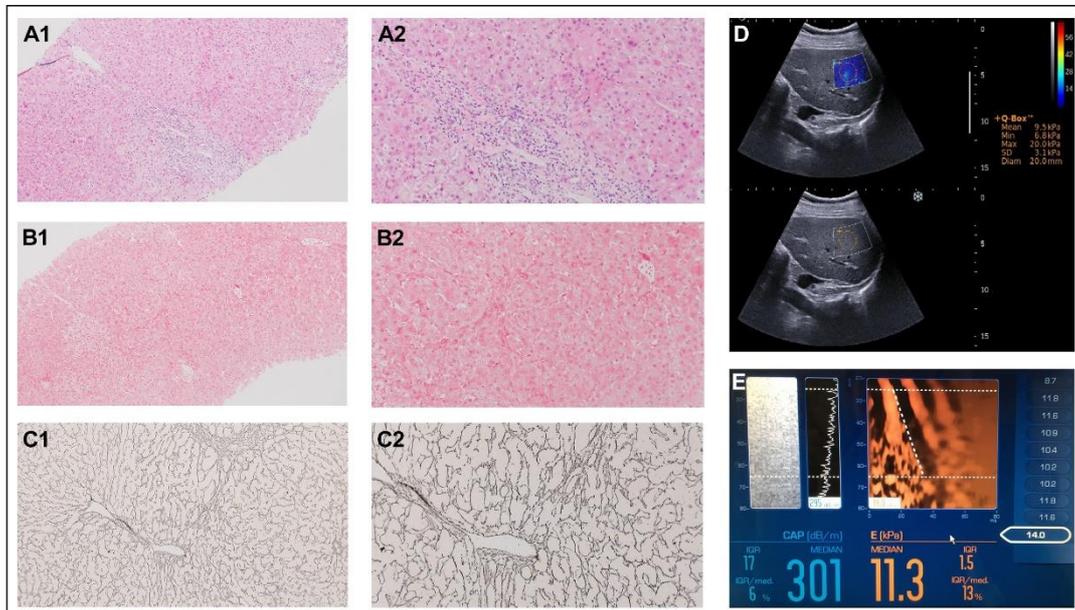
A: Liver section stained with hematoxylin and eosin; B: Liver section with Masson staining; C: Liver section with reticular staining; D: Shear wave elastography image. The mean liver stiffness measurement (LSM) was 4.6 kPa; E: Transient elastography image. The mean LSM was 4.8 kPa. A1, B1, C1: 100  $\times$ ; A2, B2, C2: 200  $\times$ .

Supplementary figure 2 Pathological images of liver sections and the corresponding shear wave elastography and transient elastography images for an F1 patient.



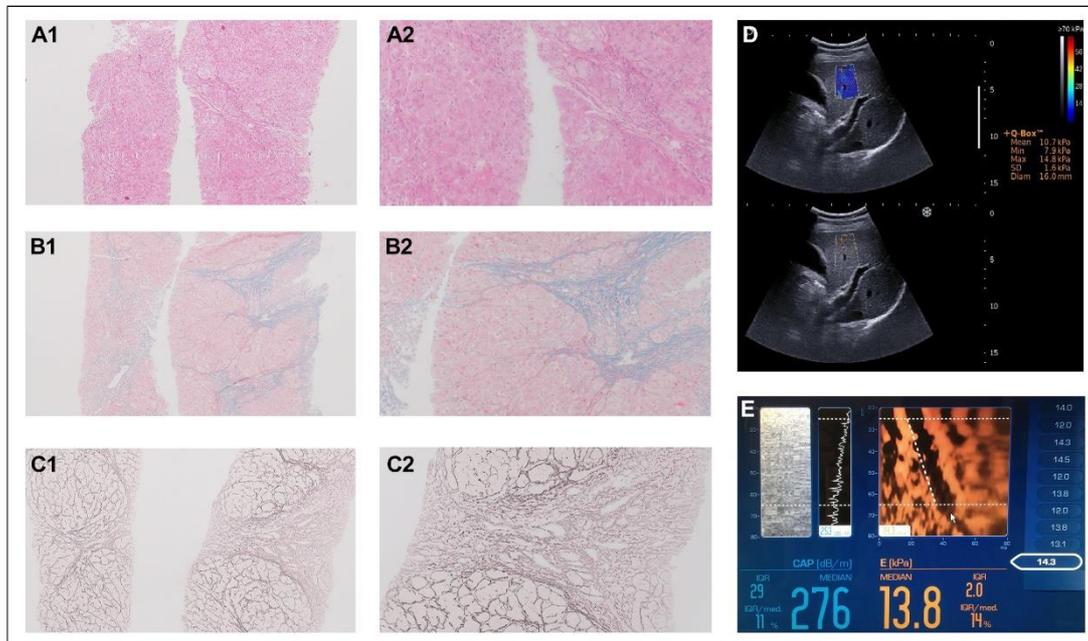
A: Liver section stained with hematoxylin and eosin; B: Liver section with Masson staining; C: Liver section with reticular staining; D: Shear wave elastography image. The mean liver stiffness measurement (LSM) was 6.4 kPa; E: Transient elastography image. The mean LSM was 8.8 kPa. A1, B1, C1: 100 ×; A2, B2, C2: 200 ×

Supplementary figure 3 Pathological images of liver sections and the corresponding shear wave elastography and transient elastography images for an F2 patient.



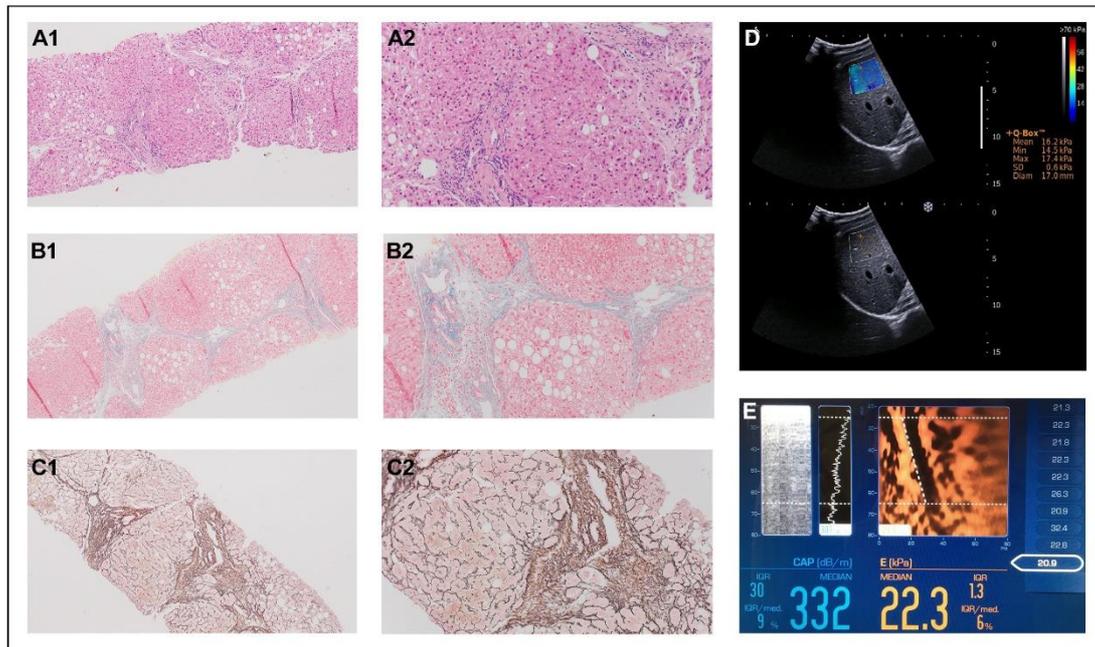
A: Liver section stained with hematoxylin and eosin; B: Liver section with Masson staining; C: Liver section with reticular staining; D: Shear wave elastography image. The mean liver stiffness measurement (LSM) was 9.5 kPa; E: Transient elastography image. The mean LSM was 11.3 kPa. A1, B1, C1: 100  $\times$ ; A2, B2, C2: 200  $\times$ .

Supplementary figure 4 Pathological images of liver sections and the corresponding shear wave elastography and transient elastography images for an F3 patient.



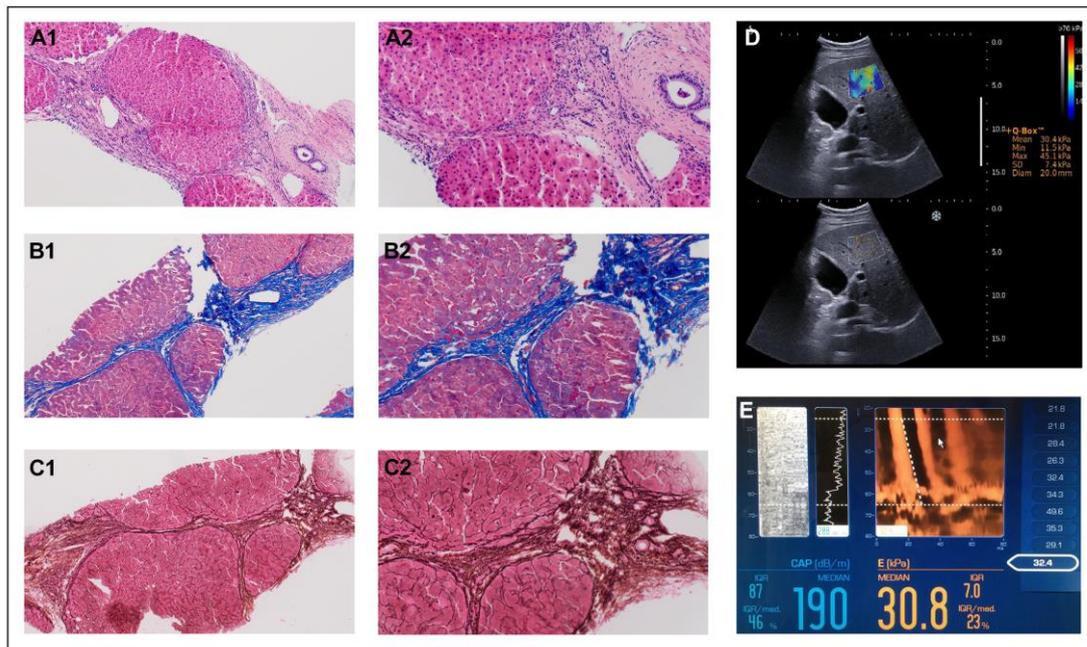
A: Liver section stained with hematoxylin and eosin; B: Liver section with Masson staining; C: Liver section with reticular staining; D: Shear wave elastography image. The mean liver stiffness measurement (LSM) was 10.7 kPa; E: Transient elastography image. The mean LSM was 13.8 kPa. A1, B1, C1: 100  $\times$ ; A2, B2, C2: 200  $\times$ .

Supplementary figure 5 Pathological images of liver sections and the corresponding shear wave elastography and transient elastography images for an F4 patient.



A: Liver section stained with hematoxylin and eosin; B: Liver section with Masson staining; C: Liver section with reticular staining; D: Shear wave elastography image. The mean liver stiffness measurement (LSM) was 16.2 kPa; E: Transient elastography image. The mean LSM was 22.3 kPa. A1, B1, C1: 100  $\times$ ; A2, B2, C2: 200  $\times$ .

Supplementary figure 6 Pathological images of liver sections and the corresponding shear wave elastography and transient elastography images for an F5 patient.



A: Liver section stained with hematoxylin and eosin; B: Liver section with Masson staining; C: Liver section with reticular staining; D: Shear wave elastography image. The mean liver stiffness measurement (LSM) was 30.4 kPa; E: Transient elastography image. The mean LSM was 30.8 kPa. A1, B1, C1: 100  $\times$ ; A2, B2, C2: 200  $\times$ .

**Supplementary table 1 Characteristic comparison of different studies**

| Characteristics          | Our study                                       | Zeng J <i>et al</i> <sup>[13]</sup> , 2014       | Wu T <i>et al</i> <sup>[14]</sup> , 2016        | Zeng J <i>et al</i> <sup>[15]</sup> , 2017          |
|--------------------------|---|--|---|---|
| Age (yr)                 | 36.7 ± 9.96,<br>19.0-61.0 <sup>1</sup>          | 36.3 ± 9.4,<br>20.0-59.0 <sup>1</sup>            | 35.8 ± 10.2,<br>18-85 <sup>1</sup>              | 36.7 ± 9.4,<br>18-65 <sup>1</sup>                   |
| No. of male (%)          | 41 (75.93%)                                     | 169 (82.0%)                                      | 334 (76.4%)                                     | 199 (77.4%)   |
| BMI (kg/m <sup>2</sup> ) | 23.9 (21.9-25.0)<br>(16.4-30.3) <sup>2</sup>    | 22.3 ± 3.2,<br>15.1-36.4 <sup>1</sup>            | 21.8 ± 3,<br>14.4-32.9 <sup>1</sup>             | 21.7<br>(19.7-23.9)<br>(14.4-32.9) <sup>2</sup>     |
| ALT (IU/L)               | 50.4(28.8-129.2)<br>(12.5-402.9) <sup>2</sup>   | 43.5<br>(26.0-69.5)<br>(7.0-473.0) <sup>2</sup>  | 43 (28-72)<br>(4-976) <sup>2</sup>              | 42.0<br>(28.3-67.8)<br>(7.0-736.0) <sup>2</sup>     |
| AST (IU/L)               | 38.9(26.5-67.0)<br>(16.1-179.2) <sup>2</sup>    | 32.0<br>(25.0-48.5)<br>(14.0-474.0) <sup>2</sup> | 33 (25-49)<br>(9-474) <sup>2</sup>              | 32.0<br>(24.3-50.8)<br>(13.0-484.0) <sup>2</sup>    |
| TBIL (μmol/L)            | 14.5(11.9-20.7)<br>(7.2-45.0) <sup>2</sup>      | 14.4<br>(10.9-21.2)<br>(3.7-241.6) <sup>2</sup>  | 13.8<br>(10.5-18.4)<br>(3.7-247.7) <sup>2</sup> | 13.0<br>(10.7-17.7)<br>(3.8-247.7) <sup>2</sup>     |
| PLT (10 <sup>9</sup> /L) | 166.5(128.3-219.8)<br>(65.0-327.0) <sup>2</sup> | 183.6 ± 53.9,<br>49.0-312.0 <sup>1</sup>         | 186<br>(150-224)<br>(47-472) <sup>2</sup>       | 186.0<br>(151.3-228.0)<br>(47.0-472.0) <sup>2</sup> |
| PTA (%)                  | 101.0(90.0-111.5)<br>(69.0-122.0) <sup>2</sup>  | 99.5 ± 13.4,<br>57.0-139.0 <sup>1</sup>          | 98.6 ± 13.2,<br>57-139 <sup>1</sup>             | 99.0 ± 12.5,<br>56.0-136.0 <sup>1</sup>             |
| Fibrosis stages          | Ishak   | Metavir  | Metavir   | Metavir   |
| F0                       | 3 (5.6%)  | 37 (18%)   | 78 (17.8%)                                      | 48 (18.6%)  |
| F1                       | 4 (7.4%)  | 57 (27.7%)                                       | 153 (35.0%)                                     | 90 (35.0%)  |
| F2                       | 20 (37.0%)                                      | 48 (23.3%)                                       | 83 (19.0%)                                      | 55 (21.4%)  |
| F3                       | 22 (40.7%)                                      | 25 (12.1%)                                       | 62 (14.2%)                                      | 30 (11.7%)  |
| ≥ F4                     | 5 (9.3%)  | 39 (18.9%)                                       | 61 (14.0%)                                      | 34 (13.2%)  |

| Inflammation stages (%) | Ishak      | Metavir    | Metavir     | Metavir |
|-------------------------|------------|------------|-------------|---------|
| HAI 0/A0                | 0 (0%)     | 10 (4.8%)  | 14 (3.2%)   |         |
| HAI 1-4/A1              | 11 (20.4%) | 63 (30.5%) | 200 (45.8%) |         |
| HAI 5-6/A2              | 18 (33.3%) | 63 (30.6%) | 123 (28.1%) |         |
| HAI ≥ 7/A3              | 25 (46.3%) | 70 (34.0%) | 100 (22.9%) |         |

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<sup>1</sup>: mean ± SD, range; <sup>2</sup>: Median (interquartile range) (range). BMI: Body mass index; ALT: Alanine aminotransferase; AST: Aspartate aminotransferase; GGT: Gamma-glutamyl transpeptidase; ALP: Alkaline phosphatase; TBIL: Total bilirubin; ALB: Albumin; PLT: Platelet count; PTA: Prothrombin activity; HAI: histology activity index.

**Supplementary table 2 Correlations between fibrotic variables and liver functional variables**

|                | SWE   |      |       |       |      | TE    |      |       |      |      |
|----------------|-------|------|-------|-------|------|-------|------|-------|------|------|
|                | ALB   | PT   | PLT   | ALT   | TBI  | ALB   | PT   | PLT   | AL   | TBI  |
|                |       |      |       |       | L    |       |      |       | T    | L    |
| Correlation    | -0.30 | 0.02 | -0.23 | -0.04 | 0.27 | -0.34 | 0.21 | -0.37 | 0.26 | 0.47 |
| <i>P</i> value | 0.077 | 0.87 | 0.088 | 0.737 | 0.04 | 0.046 | 0.12 | 0.006 | 0.05 | 0.00 |
|                |       | 9    |       |       | 6    |       | 5    |       | 9    | 0    |

SWE: Shear wave elastography; TE: Transient elastography; ALB: Albumin; PT: Prothrombin time; PLT: Platelet; ALT: Alanine aminotransferase; TBIL: Total bilirubin.