**Supplementary Table 1. Comparison of diagnostic performance of the models in assessment of significant fibrosis, advanced fibrosis and cirrhosis using prospective data**

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| --- | --- | --- | --- | --- | --- |
| **Classification** | **Model** | **AUC** | **Accuracy** | **Sensitivity** | **Specificity** |
| Significant fibrosis (≥F2) | DtCNN Model | 0.88 | 0.82 | 0.73 | 0.88 |
| Fibrosis Model | 0.86 | 0.80 | 0.70 | 0.87 |
| LSM | 0.86 | 0.80 | 0.73 | 0.84 |
| APRI | 0.72 | 0.72 | 0.58 | 0.80 |
| FIB-4 | 0.61 | 0.64 | 0.28 | 0.85 |
| Advanced fibrosis (≥F3) | DtCNN model | 0.83 | 0.80 | 0.81 | 0.80 |
| Fibrosis model | 0.74 | 0.73 | 0.47 | 0.88 |
| LSM | 0.60 | 0.65 | 0.22 | 0.90 |
| APRI | 0.62 | 0.69 | 0.31 | 0.90 |
| FIB-4 | 0.63 | 0.66 | 0.36 | 0.83 |
| Cirrhosis (F4) | DtCNN model | 0.88 | 0.85 | 0.86 | 0.85 |
| Fibrosis model | 0.80 | 0.80 | 0.81 | 0.79 |
| LSM | 0.65 | 0.65 | 0.56 | 0.71 |
| APRI | 0.64 | 0.66 | 0.50 | 0.77 |
| FIB-4 | 0.60 | 0.64 | 0.39 | 0.81 |

APRI, aspartate transaminase-to-platelet ratio index; AUC, area under the curve; DtCNN, dual-task convolutional neural network; FIB-4, fibrosis index based on four factors; LSM, liver stiffness measurement.