**Supplementary Table 3** Details regarding radiomics features extraction based on the Image Biomarker Standardization Initiative (IBSI) guidelines.

|  |  |
| --- | --- |
| **Imaging Biomarker Standardization Initiative (IBSI) reporting structure of the study** | |
| **Patients** | |
| Region of interest | Liver and spleen in 3-phase enhanced abdominal computed tomography (CT) |
| Patient Preparation | Patients were required to being in a fasting state. |
| CT developing agent | Iodinated contrast material. Other details were listed in Supplementary Table 2. |
| **Acquisition and Reconstruction** | |
| Protocol | Information of different centers varies. Details were listed in Supplementary Table 2. |
| Scanner type | Information of different centers varies. Details were listed in Supplementary Table 2. |
| **Image processing** | |
| Data conversion | Arterial, venous, and delay phase CT images were all retrieved from the Picture Archiving and Communication System (PACS) and analyzed. Raw images acquired in dicom format were converted to NIfTI format using dcm2niix (https://github.com/rordenlab/dcm2niix). |
| **Delineation** | |
| Software | ITK-SNAP software, version 4.0.1 (www.itksnap.org) |
| nnU-Net (v2) |
| ROI definition | Standard 2D regions of interest (ROI) tools and nnU-Net (v2) |
| Number of experts | 2 experienced radiologists participated in independent delineations, followed by 1 senior radiologist cross-validation if necessary |
| Methods | Manual modification (exclusively in training and validation set) and automatic segmentation by nnU-Net. Details were clarified in methods of main text. |
| **Radiomics feature extraction** | |
| Software | Python, version 3.9 (https://www.python.org) |
| Package | Pyradiomics, version 3.1.0 (https://pyradiomics.readthedocs.io/en/latest/index.html) |
| Image processing for radiomics | The resample and intensity normalization scheme were applied by Pyradiomics |
| **Discretization** | |
| Bin width | 25 |
| Kernels of the filter | Wavelet |
| Biomarker set | First Order Statistics, shape features, gray Level Cooccurrence Matrix-based (GLCM) features, Gray Level Dependence Matrix-based (GLDM) features, gray Level Run Length Matrix-based (GLRLM) features, gray Level Size Zone Matrix-based (GLSZM) features, and neighborhood Gray Tone Difference Matrix–based (NGTDM) features (854 for spleen and 854 for liver in total). |

Note: After providing all modified parameters of pre-processing and radiomic feature extraction, all other parameters remained as a default configuration.