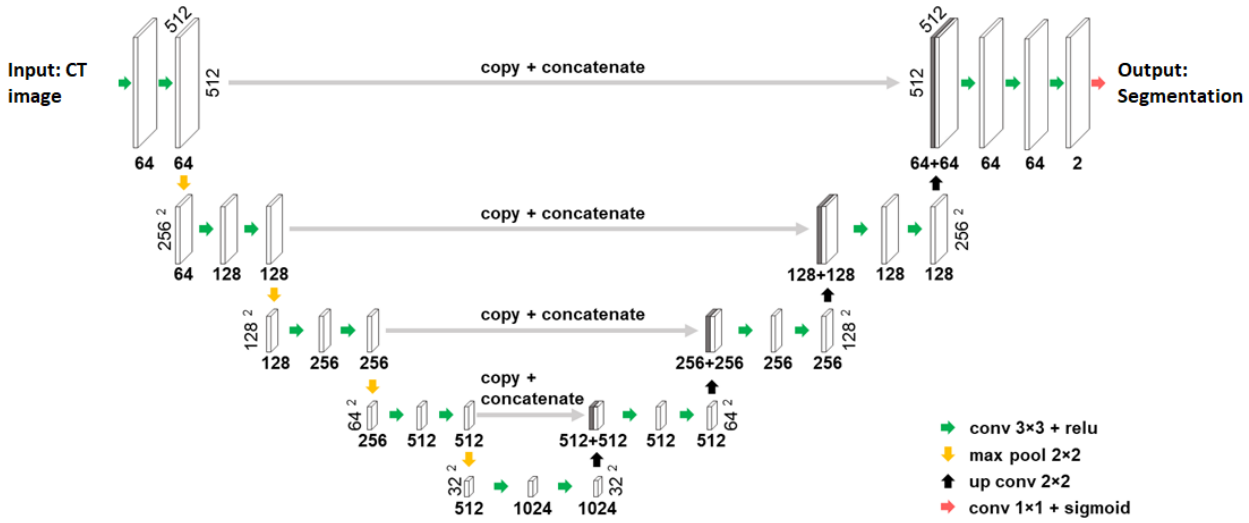
Supplementary Information: A Deep Learning Framework for Automated Detection and Quantitative Assessment of Liver Trauma

Supplementary Method

U-net Architecture used to generate liver parenchyma and trauma segmentation masks.



Supplementary Figure 1. Illustration of the baseline U-net architecture used for segmentation. This figure is borrowed from [41].

Liver segmentation U-net specifications. The U-net model for liver segmentation is trained for 3000 epochs, and each epoch is learned on 10 patients. An Adam optimizer with a learning rate of 2×10^{-4} is used to minimize the binary cross-entropy loss.

Liver disruption segmentation U-net specifications. The U-net model for liver disruption segmentation is trained for 4000 epochs, and each epoch is learned on 10 patients. An Adam optimizer with a learning rate of 5×10^{-5} is used to minimize the binary cross-entropy loss.