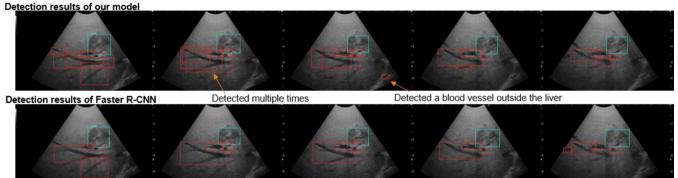
## Scene A time Detection results of our model Detection results of Faster R-CNN Detection results of Faster R-CNN Detection results of our model Detection results of our model Detection results of Faster R-CNN Detection results of our model Detection results of Faster R-CNN Detection results of a ster R-CNN Detection results of a ster R-CNN Detection results of our model

Scene C



**Figure S1** Tumor detection results of our model and Faster R-CNN for some heretofore unseen scenes. The box detected as an object by Classification Network with a probability of 50% or more were shown in the figure. The light blue box indicates the detected tumor. The red box indicates the detected blood vessel. Faster R-CNN, faster region-based convolutional neural networks.