

Figure 1: (A) Bland-Altman and (B) concordance plot of agreements between ground truth and predicted lesion volumes in the test cohort by the Focal model. CCC = concordance correlation coefficient, ICH = intracerebral hemorrhage, PHE = perihematomal edema, IVH = intraventricular hemorrhage

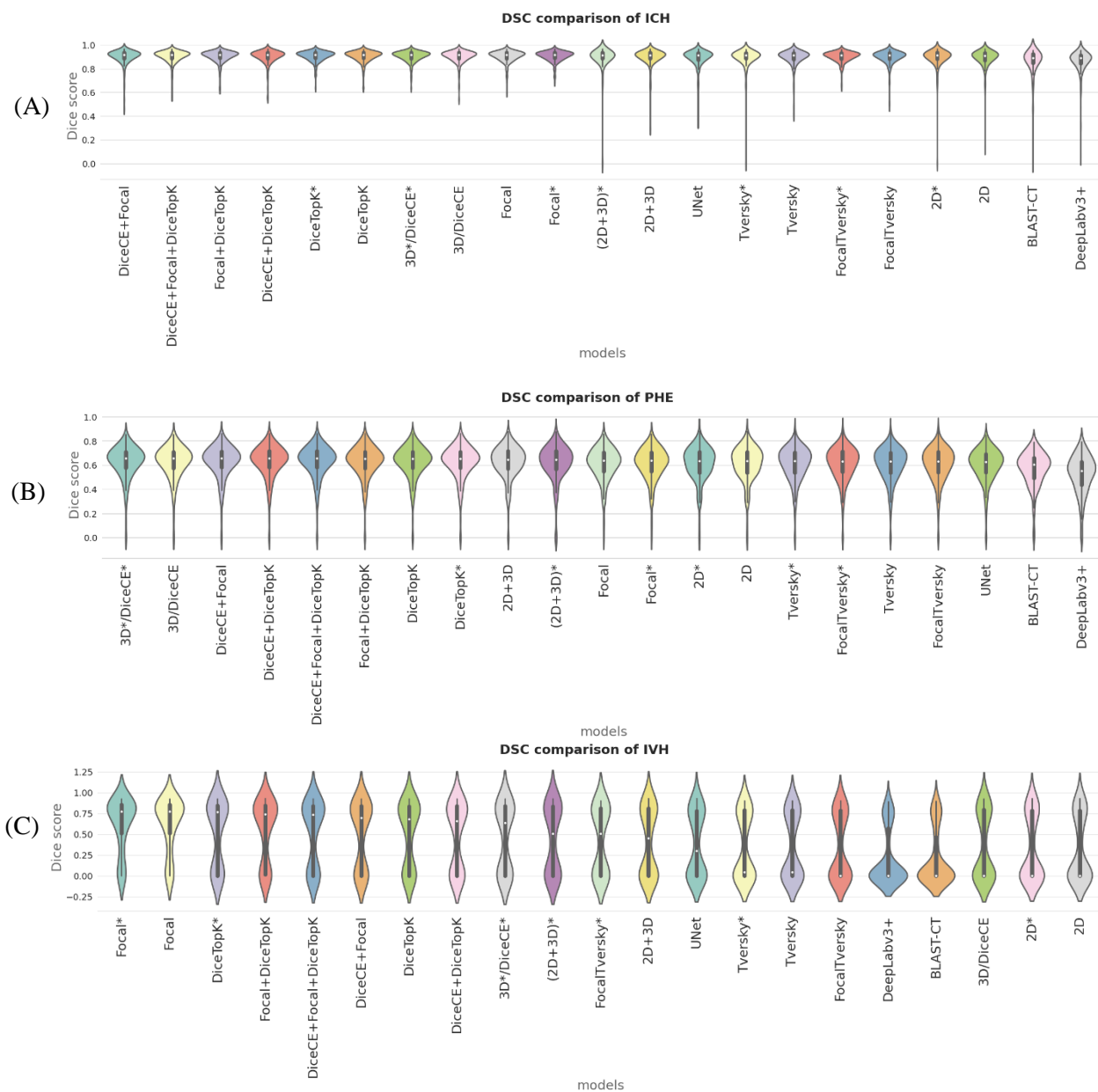


Figure S1: Box-violin plots of Dice Similarity Coefficient of various models for ICH, PHE and IVH, sorted by mean score. DSC = Dice Similarity Coefficient; ICH = intracerebral hemorrhage; PHE = perihematoma oedema; IVH = intraventricular hemorrhage; DiceCE = Dice and Cross-Entropy loss;


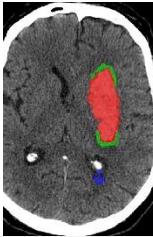
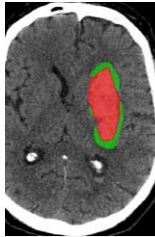
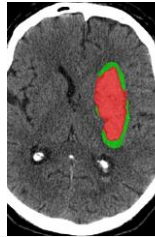
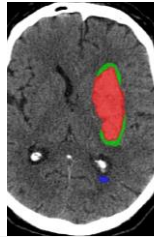
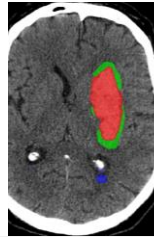
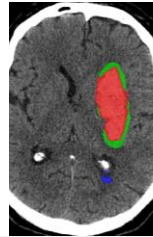
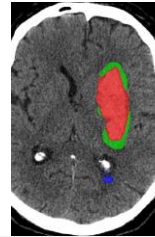
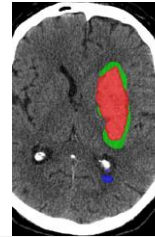
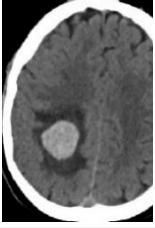
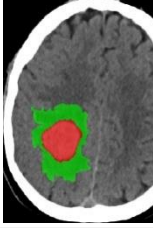
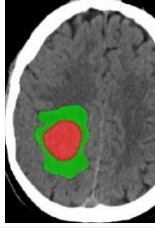
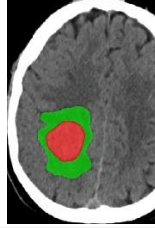
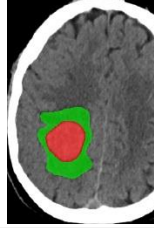
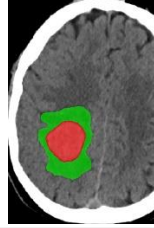
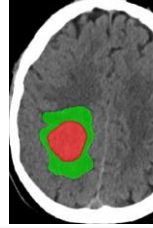
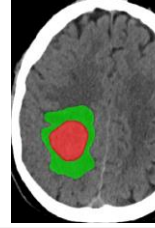
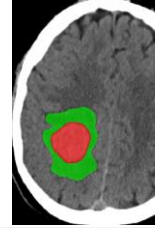

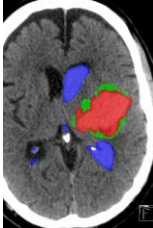
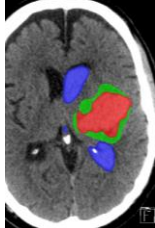
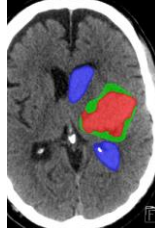
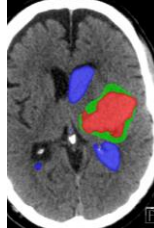
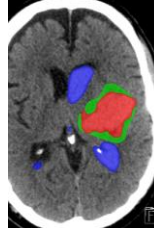
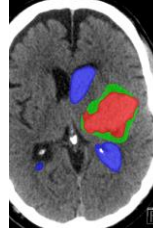
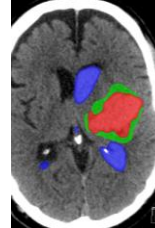
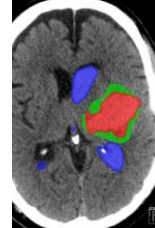
CT scan	Ground truth	3D* nnUNet (DiceCE*)	DiceTopK *	Focal*	DiceCE + DiceTopK	Focal+ DiceTopK	DiceCE+F ocal	DiceCE+F ocal+ DiceTopK
A. Best ICH segmentation with respect to DiceCE*								
		0.9644	0.9637	0.9649	0.9642	0.9642	0.9645	0.9644
								
B. Best PHE segmentation with respect to DiceCE*								
		0.8537	0.8594	0.8570	0.8620	0.8596	0.8622	0.8620
								
C. Best IVH segmentation with respect to DiceCE*								
		0.9220	0.9213	0.9253	0.9254	0.9269	0.9248	0.9259
								

Figure S2: Best segmentation results of networks (DiceCE, DiceTopK, Focal) with respect to DiceCE. ICH is shown in red, PHE in green and IVH in blue. Dice scores of each model are shown on top of each image. DiceCE = Dice and Cross-Entropy; ICH = intracerebral hemorrhage; PHE = perihematomal edema; IVH = intraventricular hemorrhage.

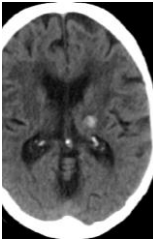
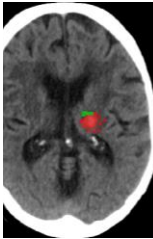
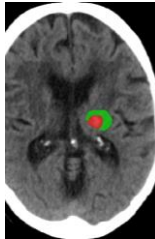
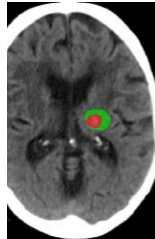
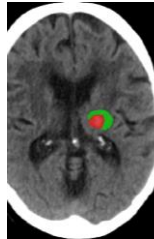
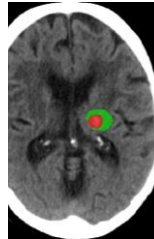
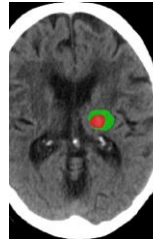
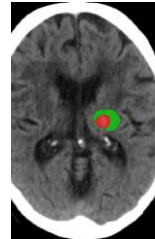
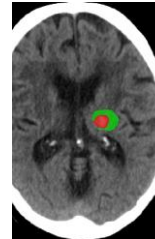

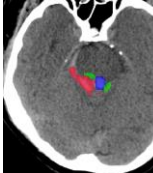
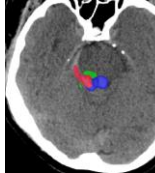
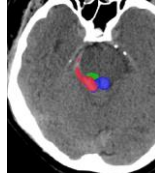
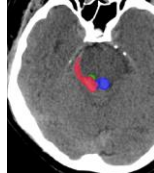
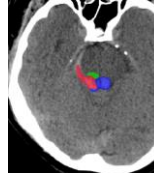
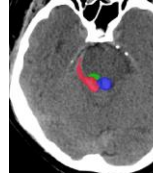
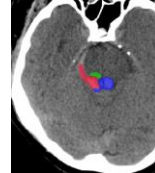
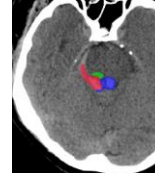

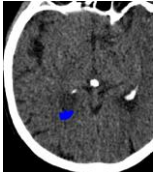
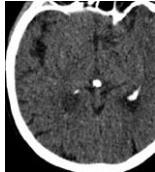
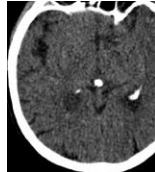
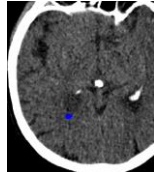
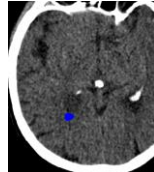
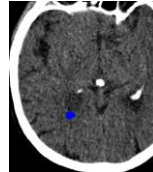
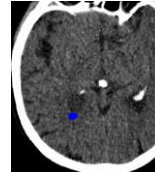
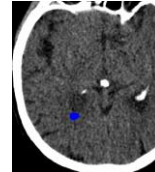
CT scan	Ground truth	3D* nnUNet (DiceCE*)	DiceTopK *	Focal*	DiceCE + DiceTopK	Focal+ DiceTopK	DiceCE+F ocal	DiceCE+F ocal+ DiceTopK
A. Worst ICH segmentation with respect to DiceCE*								
		0.6358	0.6373	0.6853	0.6365	0.6425	0.6396	0.6368
								
B. Worst PHE segmentation with respect to DiceCE*								
		0.1333	0.1503	0.1003	0.1564	0.1365	0.1555	0.1575
								
C. Worst IVH segmentation with respect to DiceCE*								
		0	0	0.5725	0.643	0.6452	0.6541	0.6475
								

Figure S3: Worst segmentation results of networks (DiceCE, DiceTopK, Focal) with respect to DiceCE. ICH is shown in red, PHE in green and IVH in blue. Dice scores of each model are shown on top of each image. DiceCE = Dice and Cross-Entropy; ICH = intracerebral hemorrhage; PHE = perihematoma edema; IVH = intraventricular hemorrhage.