

**Table S1.** DSCs for three types of lung tumors (solid, part-solid, pure GGO) and all types using dense V-Net for internal test dataset A and external test dataset.

Method	Internal test dataset B (n=38)				External test dataset (n=49)
	Pure GGO	Part-solid	Solid	All type	
Dense V-Net	0.824±0.03	0.784±0.09	0.828±0.08	0.810±0.08	0.776±0.107)

**Table S2.** Hyper-parameters for Dense V-Net.

Hyperparameters	Dense V-Net
Learning rate	0.01
Batch size	16
Iterations	2150