

## DICE Co-efficient

$$\text{Dice}(A, B) = \frac{2 \cdot |A \cap B|}{(|A| + |B|)}$$

1) Predicted Brain Mask & Ground truth Mask (MAXIMIZE DICE CO-EFFICIENT)

(B) (A)

$|A|$  → No of Pixels that have Intensity value "1" in Image A

$|B|$  → No of Pixels that have Intensity value "1" in Image B

$|A \cap B|$  → No of Pixels that have Intensity value "1" in both A and B

DICE (SO) final-op-loss ↑

DICE (CO) x final-op-loss ↓

MSE (RO) x final-op-loss ↓