

제 01회 담낭 용종 연구 보고

2020.11.26

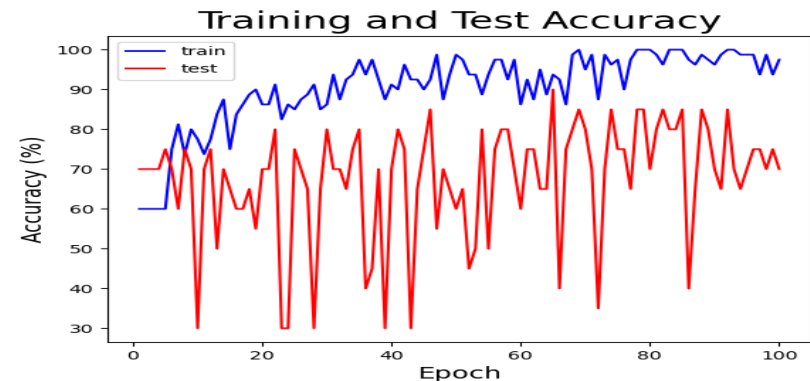


Classification 성능 보고

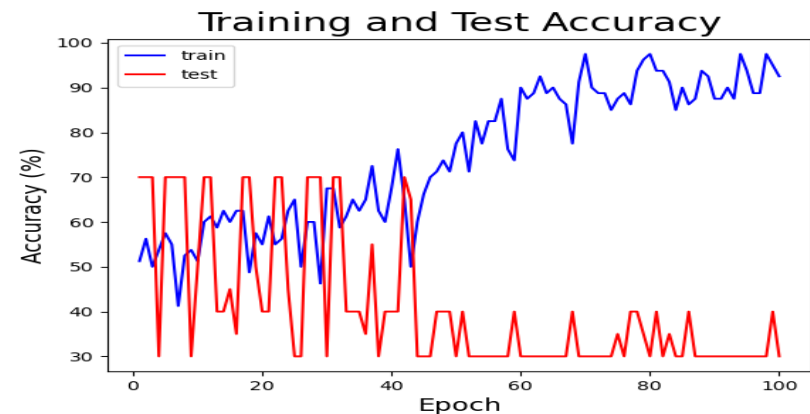
- Sample Image 45명 환자: 100개의 이미지
- 17 neoplastic: 38개의 이미지
- 28 non-neoplastic: 62개의 이미지

데이터 불균형 문제로 제대로 학습이 되지 않는다고 판단되어,
Top Accuracy 기준 결과테이블로 정리하지 않았습니다.

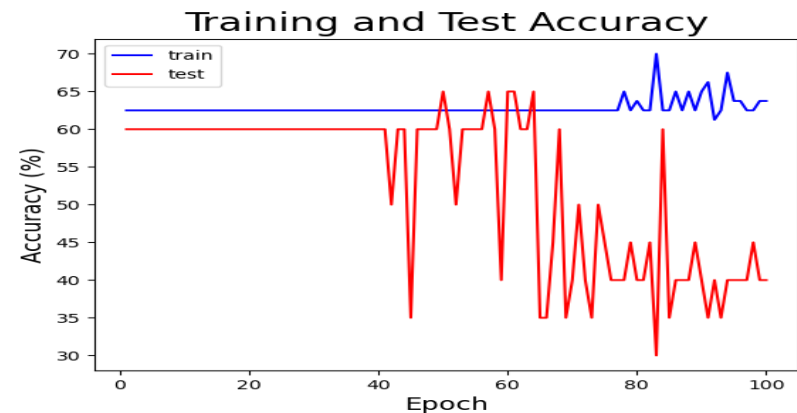
GoogleNet Result



ResNeXt Result



ShuffleNet-v2 Result



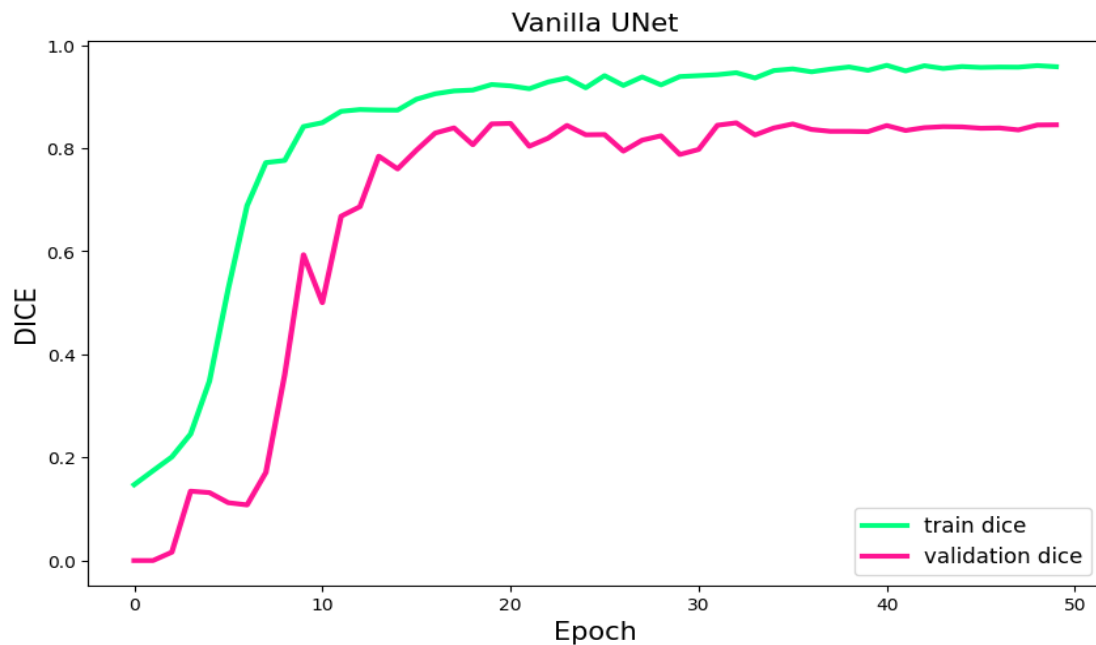
U-Net Segmentation 성능 보고

결과 테이블

CT		
Segmentation		Validation Dice
U-Net	outline	0.852
	inline	0.848
	polyp	0.805

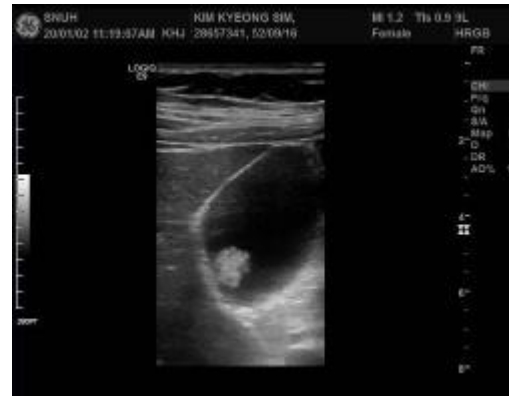
Sample Image: 100

실험결과 – Outline Segmentation 성공 사례



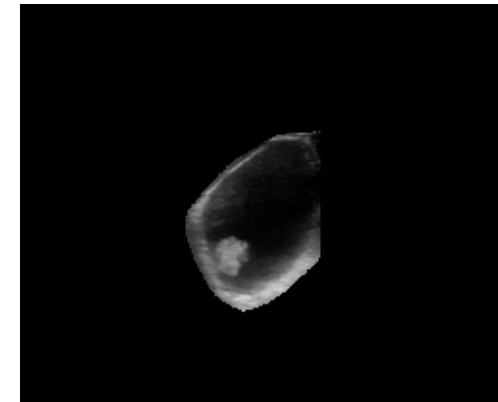
Unet – Outline result

INPUT DATA

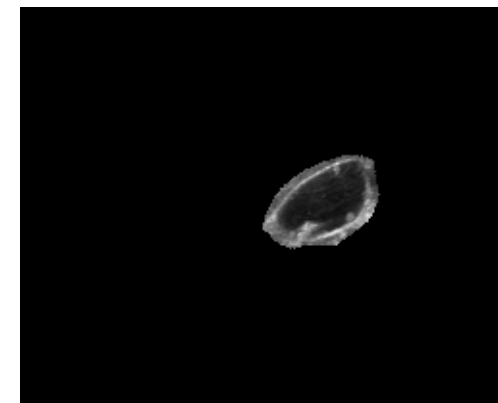


snuh_0010 (6)

OUTPUT DATA

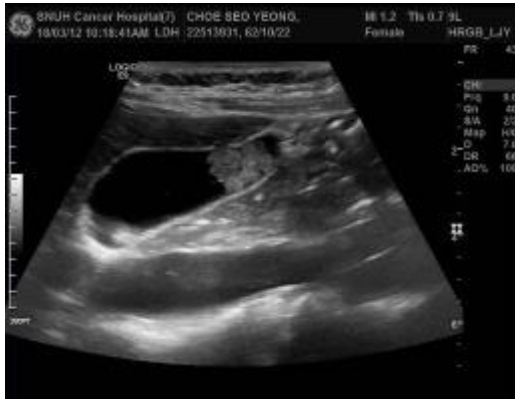


snuh_0021 (18)



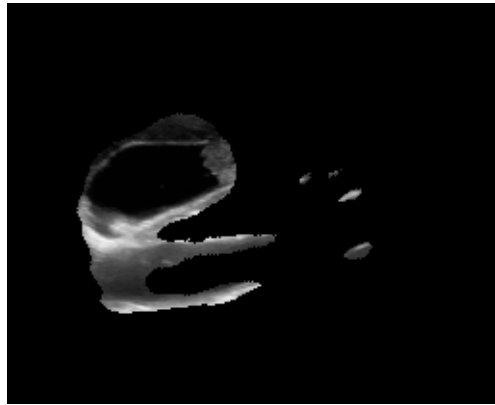
실험결과 – Outline Segmentation 실패 사례

INPUT DATA

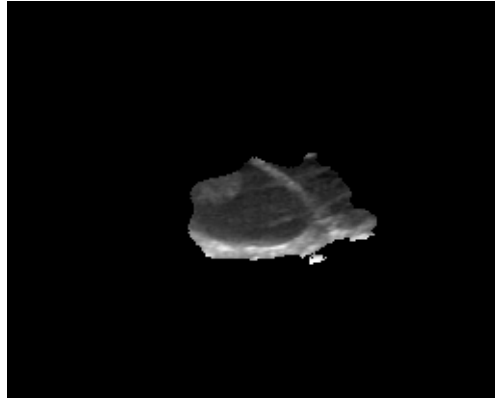


snuh_0025 (3)

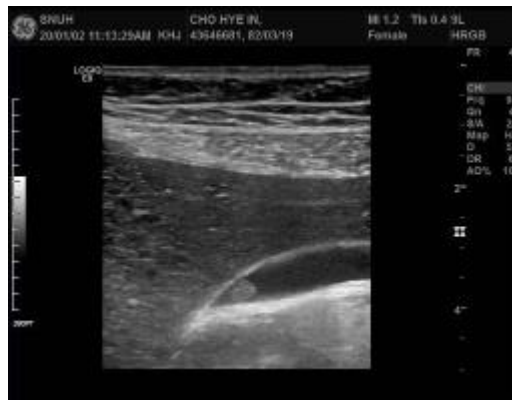
OUTPUT DATA



snuh_0041 (13)

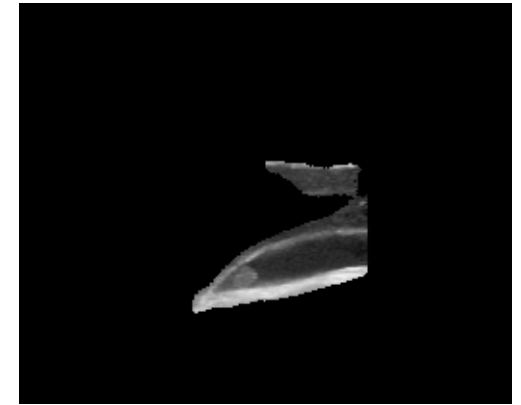


INPUT DATA



snuh_0016 (12)

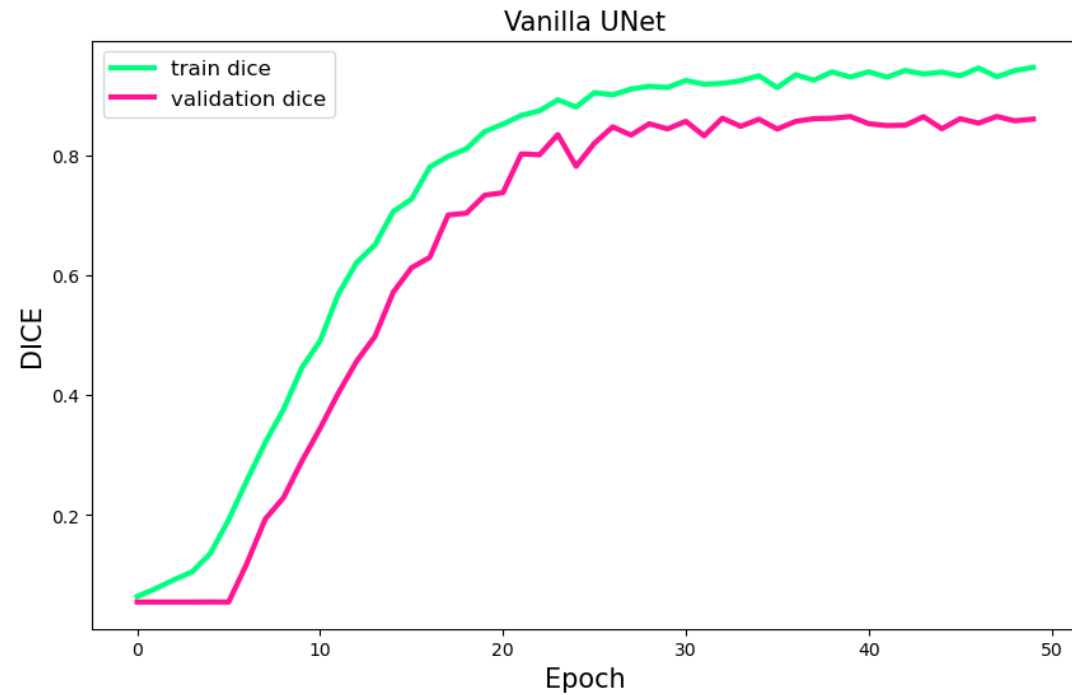
OUTPUT DATA



snuh_0032 (21)



실험결과 – Inline Segmentation 성공 사례



Unet – Inline result

INPUT DATA



snuh_0009 (1)

OUTPUT DATA

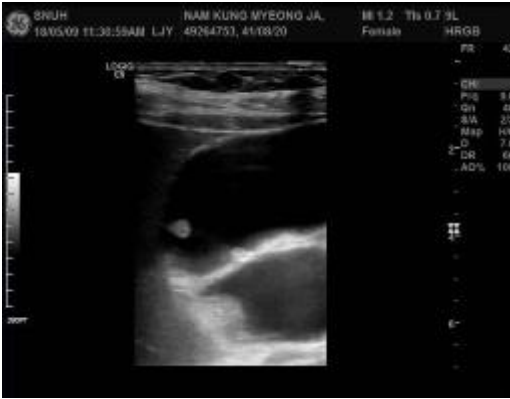


snuh_0017 (32)



실험결과 – Inline Segmentation 실패 사례

INPUT DATA



snuh_0042 (5)

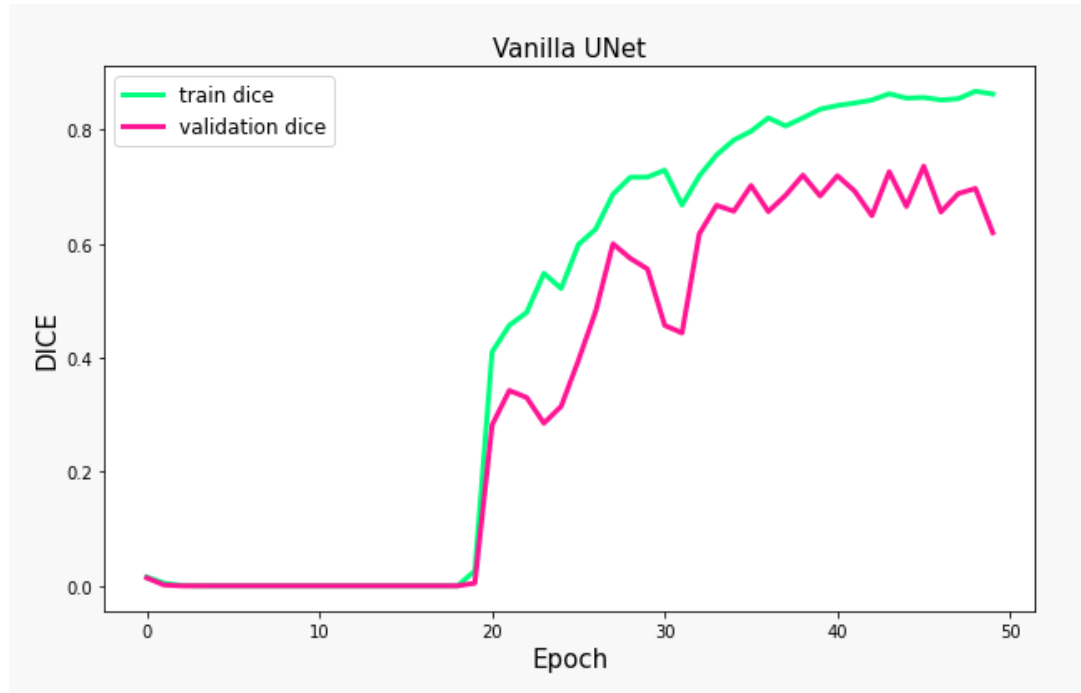
OUTPUT DATA



snuh_0046 (1)

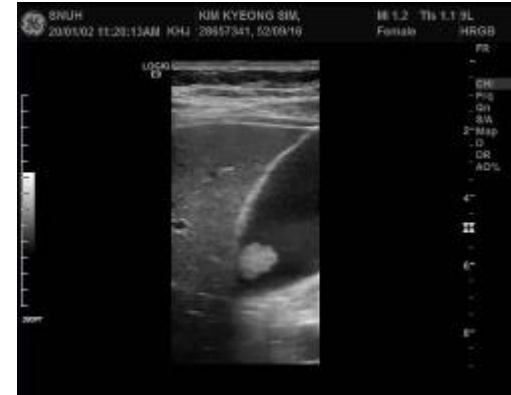


실험결과 – Polyp Segmentation 성공 사례



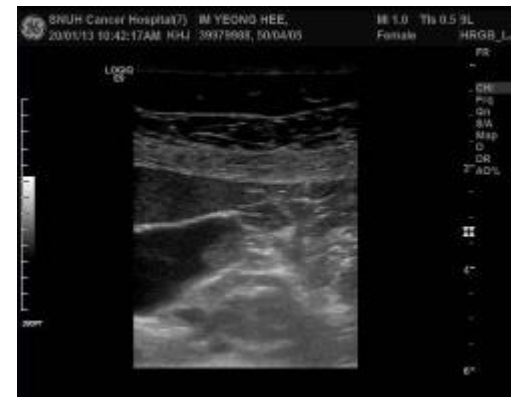
Unet – Polyp result

INPUT DATA



snuh_0010 (18)

OUTPUT DATA



snuh_0037 (9)



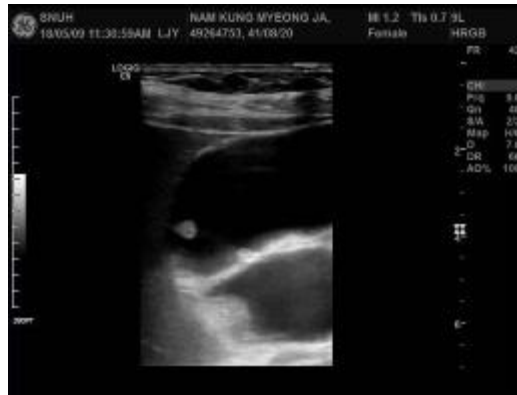
실험결과 – Polyp Segmentation 실패 사례

INPUT DATA

OUTPUT DATA



snuh_0046 (1)



snuh_0042 (5)

