the lesion image from the dataset. The lesions are placed in the same lung side from the original image from	n the
dataset. p stands for probability. The values highlighted in green show the data augmentation techniques in w	hich
the P-value achieved values lower than 0.05, and thus the null hypothesis was rejected (i.e., there is a statis	stical
difference and the results achieved are better than without data augmentation). The F-scores highlighted in blue,	, and
the IoUs highlighted in red indicate the metrics where the proposed proposed salience augmentation achieved hi	igher

Table 7.2: Results of the salience version of the data augmentation evaluation when unifying the training sets. The images were generated considering the minimum saliency distance between the image generated by the GAN and

values compared to both the generic data augmentation techniques and the random version proposed by (Krinski et al. 2023). The underscored values show when training with the proposed salience augmentation achieved a P

0.8125

0.8096

0.8080

0.8106

0.8091

0.8099

0.8098

0.8108

0.8093

0.8082

0.8079

0.8078

0.8096

0.8084

0.8070

0.8063

0.8086

0.8082

0.8074

0.8076

0.8680

0.8664

0.8640

0.8665

0.8643

0.8652

0.8652

0.8664

0.8650

0.8630

0.8633

0.8629

0.8652

0.8638

0.8621

0.8611

0.8636

0.8638

0.8638

0.8626

Stargan

Stylegan

0.05

0.1

0.15

0.2

0.25

0.3

0.35

0.4

0.45

0.5

et ai.,	2023).	The under	.scored var	lues siic	ow when u	ranning	with the p	порозе	u samence	augme	manon aci	neveu a
P-valu	ie lower	than 0.05 v	when comp	ared wi	ith training	with th	ne augment	ation pr	roposed by	(Krinsl	ci et al., 20	23), and
the nu	ıll hypo	thesis was i	rejected.									
	Augr	mentation	CC-C	CII	Meds	Seg	MosN	Med	Ricor	d1a	Zeno	odo

the nu	the null hypothesis was rejected.										
p	Augmentation	CC-(CCII	MedSeg		MosMed		Ricord1a		Zenodo	
		F-score	IoU	F-score	IoU	F-score	IoU	F-score	IoU	F-score	IoU
	No Augmentation	0.8636	0.8087	0.8881	0.8253	0.8185	0.7547	0.8599	0.7947	0.9096	0.8514

0.8280

0.8260

0.8277

0.8294

0.8308

0.8290

0.8289

0.8281

0.8296

0.8281

0.8293

0.8283

0.8280

0.8310

0.8288

0.8290

0.8287

0.8301

0.8291

0.8329

0.8900

0.8886

0.8902

0.8914

0.8930

0.8911

0.8914

0.8901

0.8917

0.8902

0.8908

0.8908

0.8900

0.8930

0.8909

0.8910

0.8910

0.8918

0.8916

0.8945

0.8278

0.8213

0.8228

0.8253

0.8265

0.8302

0.8255

0.8245

0.8291

0.8239

0.8259

0.8250

0.8278

0.8307

0.8305

0.8253

0.8273

0.8265

0.8304

0.8306

0.7638

0.7582

0.7593

0.7618

0.7631

0.7668

0.7622

0.7604

0.7655

0.7614

0.7622

0.7613

0.7646

0.7674

0.7672

0.7621

0.7636

0.7633

0.7675

0.7675

eg	MosMed		Rico	rd1a	Zenodo		
IoU	F-score	IoU	F-score	IoU	F-score	I	
).8253	0.8185	0.7547	0.8599	0.7947	0.9096	0.8	

0.8748

0.8691

0.8704

0.8745

0.8748

0.8781

0.8742

0.8750

0.8790

0.8774

0.8739

0.8779

0.8779

0.8811

0.8780

0.8761

0.8774

0.8804

0.8783

0.8805

0.8121

0.8054

0.8071

0.8123

0.8124

0.8162

0.8116

0.8128

0.8171

0.8159

0.8116

0.8162

0.8162

0.8201

0.8163

0.8139

0.8155

0.8193

0.8167

0.8195

0.9116

0.9100

0.9105

0.9117

0.9117

0.9120

0.9120

0.9121

0.9127

0.9124

0.9118

0.9135

0.9132

0.9131

0.9123

0.9118

0.9126

0.9137

0.9133

0.9130

0.8542

0.8521

0.8529

0.8544

0.8541

0.8547

0.8545

0.8547

0.8556

0.8550

0.8543

0.8563

0.8563

0.8561

0.8549

0.8542

0.8553

0.8568

0.8562

0.8562