the lesion image from the dataset. The lesions are placed in the opposite lung side from the original image from the
dataset. p stands for probability. The values highlighted in green show the data augmentation techniques in which
the P-value achieved values lower than 0.05, and thus the null hypothesis was rejected (i.e., there is a statistica
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 highe
values compared to both the generic data augmentation techniques and the random version proposed by (Krinsk
4 1 2022) The second of the form of the first terms

Table 7.5: 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

	all hypothesis was re		pared Wi	ui training	g with the	e augmen	tation pr	oposea by	y (Krinsk	1 et al., 20	<i>323)</i> , and
p	Augmentation	CC-0	CCII	Med	lSeg	Mos	Med	Rico	rd1a	Zen	odo
		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

0.8266

0.8258

0.8264

0.8296

0.8285

0.8278

0.8296

0.8312

0.8300

0.8270

0.8308

0.8273

0.8306

0.8311

0.8306

0.8306

0.8303

0.8269

0.8297

0.8302

0.8214

0.8230

0.8226

0.8276

0.8294

0.8258

0.8239

0.8287

0.8251

0.8263

0.8293

0.8288

0.8312

0.8296

0.8282

0.8361

0.8299

0.8254

0.8300

0.8267

0.7576

0.7597

0.7598

0.7647

0.7660

0.7620

0.7601

0.7652

0.7613

0.7634

0.7649

0.7650

0.7680

0.7660

0.7646

0.7725

0.7672

0.7619

0.7665

0.7644

0.8630

0.8706

0.8729

0.8773

0.8752

0.8773

0.8751

0.8784

0.8713

0.8784

0.8790

0.8760

0.8801

0.8795

0.8785

0.8814

0.8830

0.8776

0.8794

0.8776

0.7983

0.8073

0.8099

0.8152

0.8126

0.8152

0.8127

0.8166

0.8081

0.8169

0.8176

0.8140

0.8187

0.8181

0.8170

0.8205

0.8222

0.8156

0.8182

0.8160

0.9105

0.9101

0.9107

0.9125

0.9113

0.9123

0.9120

0.9133

0.9124

0.9118

0.9133

0.9115

0.9139

0.9129

0.9127

0.9142

0.9138

0.9129

0.9138

0.9119

0.8525

0.8519

0.8529

0.8552

0.8539

0.8550

0.8543

0.8560

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0.8544

0.8563

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0.8573

0.8556

0.8553

0.8575

0.8573

0.8557

0.8569

0.8545

Stargan

Stylegan

0.05

0.1

0.15

0.2

0.25

0.3

0.35

0.4

0.45

0.5

0.8659

0.8643

0.8669

0.8669

0.8638

0.8638

0.8669

0.8670

0.8658

0.8612

0.8656

0.8657

0.8665

0.8665

0.8652

0.8632

0.8668

0.8591

0.8654

0.8662

0.8106

0.8089

0.8115

0.8112

0.8075

0.8073

0.8118

0.8118

0.8102

0.8057

0.8098

0.8095

0.8107

0.8103

0.8096

0.8077

0.8109

0.8049

0.8104

0.8106

0.8894

0.8885

0.8894

0.8915

0.8904

0.8898

0.8917

0.8927

0.8914

0.8896

0.8927

0.8892

0.8922

0.8926

0.8927

0.8925

0.8927

0.8894

0.8918

0.8922

p Augmentation CC-CCII MedSeg MosMed Ricord1a Zenodo
--

	Augmentation	CC-CCII	MedSeg	MosMed	Ricord1a	Zenodo
the nu	ıll hypothesis was r	ejected.				
	ie lower than 0.05 v		th training with th	ne augmentation pr	oposed by (Krinsk	i et al., 2023), and
et al.,	2023). The under	scored values sho	w when training	with the proposed	d salience augmer	ntation achieved a

		CC CCW	37.10					
the null hypot	hesis was r	ejected.						
P-value lower	than 0.05 v	when compared wit	h training with t	he augmentation pr	oposed b	y (Krinsl	ki et al., 20	023), and
et al., 2023).	The under	scored values sho	w when training	g with the propose	d salienc	e augme	ntation ac	chieved a
values compa	red to both	the generic data a	ugmentation tec	chniques and the ra	ındom ve	rsion pro	posed by	(Krinski
the roos mgm	ignica in re	a marcate the men	res where the pr	oposed proposed st	arretice au	Simonical	on acme v	ou mgmor

the nu	ll hypothesis was re	ejected.				
	e lower than 0.05 w		th training with th	e augmentation pro	oposed by (Krinski	et al., 2023), and
et al.,	2023). The unders	scored values sho	w when training	with the proposed	l salience augmen	tation achieved
. 1	0000) TTI 1					
	compared to both	_	·	*	ndom version prop	osed by (Krinsk