Table 7.3: Results of the salience version of the data augmentation evaluation when unifying the training sets. The images were generated considering the a random saliency distance between the image generated by the GAN and the lesion image from the dataset. The lesions are placed in the same 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 statistical difference and the results achieved are better than without data augmentation). The underscored values show when training with the proposed salience augmentation achieved a P-value lower than 0.05 when compared with training with the augmentation proposed by (Krinski et al., 2023), and 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
0.05	Stargan	0.8657	0.8106	0.8891	0.8269	0.8224	0.7582	0.8624	0.7980	0.9098	0.8518
	Stylegan	0.8648	0.8088	0.8885	0.8259	0.8231	0.7596	0.8676	0.8038	0.9104	0.8524
0.1	Stargan	0.8629	0.8077	0.8894	0.8272	0.8194	0.7566	0.8666	0.8027	0.9103	0.8521
	Stylegan	0.8636	0.8080	0.8900	0.8280	0.8255	0.7622	0.8716	0.8086	0.9116	0.8537
0.15	Stargan	0.8633	0.8078	0.8889	0.8267	0.8245	0.7609	0.8706	0.8073	0.9104	0.8525
	Stylegan	0.8643	0.8091	0.8882	0.8254	0.8190	0.7556	0.8600	0.7949	0.9100	0.8518
0.2	Stargan	0.8645	0.8086	0.8883	0.8253	0.8235	0.7597	0.8665	0.8025	0.9095	0.8514
	Stylegan	0.8676	0.8110	0.8907	0.8282	0.8199	0.7579	0.8714	0.8083	0.9105	0.8527
0.25	Stargan	0.8639	0.8077	0.8891	0.8265	0.8268	0.7626	0.8761	0.8139	0.9116	0.8543
	Stylegan	0.8633	0.8074	0.8902	0.8282	0.8318	0.7675	0.8747	0.8126	0.9109	0.8536
0.3	Stargan	0.8652	0.8092	0.8903	0.8283	0.8272	0.7638	0.8761	0.8142	0.9124	0.8548
	Stylegan	0.8662	0.8096	0.8892	0.8269	0.8251	0.7614	0.8723	0.8094	0.9108	0.8530
0.35	Stargan	0.8631	0.8072	0.8919	0.8298	0.8303	0.7667	0.8765	0.8144	0.9119	0.8545
	Stylegan	0.8654	0.8101	0.8900	0.8278	0.8190	0.7560	0.8736	0.8114	0.9116	0.8538
0.4	Stargan	0.8635	0.8083	0.8903	0.8281	0.8294	0.7660	0.8770	0.8153	0.9119	0.8549
	Stylegan	0.8641	0.8079	0.8920	0.8300	0.8250	0.7615	0.8755	0.8135	0.9113	0.8539
0.45	Stargan	0.8648	0.8091	0.8892	0.8271	0.8234	0.7607	0.8762	0.8142	0.9128	0.8555
	Stylegan	0.8656	0.8099	0.8924	0.8302	0.8284	0.7636	0.8761	0.8140	0.9118	0.8544
0.5	Stargan	0.8654	0.8099	0.8909	0.8286	0.8302	0.7660	0.8789	0.8173	0.9122	0.8552
	Stylegan	0.8660	0.8097	0.8928	0.8309	0.8258	0.7625	0.8765	0.8145	0.9108	0.8535