Table 2: Evaluation of Wasserstein-Filtered Data Augmentation on ISIC 2018 Dataset

6 Augmented 45.71 45.69 45.71 44.48 Augmented 47.14 51		7 50
6 W F7 14 CO O1 F7 14 F6 F6 21 Augmented 47.14 91	7.51 58.57 57.	
	51.16 47.14 47. 5.19 64.29 63.	
9 111	52.91 55.71 51. 5.37 64.29 63.	

Performance metrics (%) on a 7-class skin cancer image dataset (ISIC 2018) [1] with 1,257 original training samples and varying numbers of generated images (Gen) from SD-XL, mixed at strength=0.15 and strength=0.8 (default: 0.75). Higher strength increases diversity but introduces suboptimal samples, requiring Wass filtering. Baseline: original samples (averaged across tasks); Augmented: unfiltered generated data; Wass: Wasserstein-filtered data, retaining the top 60% of images. Wass consistently enhances performance over the baseline.

[1] Skin Cancer Classification Using Convolutional Neural Networks: Systematic Review