A comparison of a person's body

Description automatically generatedA comparison of the body and the body

Description automatically generatedA close-up of x-ray images

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With adding data augmentation we could decrease loss from 0.0664 at epoch 298 to ? at epoch ?.

Despite the initial successes, when the model was applied to different radiotracers, the results were suboptimal, indicating a limitation in its ability to generalize across varying tracer types without further adaptation.

In addition to voxel-wise assessments, model performance was further validated through various statistical tests, including the two-sample Wilcoxon test for comparing image-derived metrics between different training models. To account for multiple comparisons, p-values were adjusted using the Benjamini-Hochberg procedure, with a significance threshold set at 0.05. Statistical significance was determined using paired-sample t-tests across different training modalities, adhering to a p-value significance level of 0.05. The joint histogram analysis, including Pearson correlation, visually represented the voxel-wise SUV correlations for a defined SUV range, offering a granular understanding of the model’s accuracy.

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| A graph of a number of boxes  Description automatically generated with medium confidence | A graph with a yellow and blue box  Description automatically generated with medium confidence |
| A graph of a number of numbers and a blue box with a red line  Description automatically generated | |

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| A close-up of x-ray images  Description automatically generated |

A comparison of a person's body

Description automatically generatedA comparison of images of a human body

Description automatically generated

A comparison of images of a person's body

Description automatically generatedA comparison of images of a dog

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| A comparison of a person's body  Description automatically generated |
| A close-up of a pair of images  Description automatically generated |
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| A close-up of a pair of eyes  Description automatically generated |
| A comparison of a person's body  Description automatically generated |
| A close-up of a pair of eyes  Description automatically generated |