Supplementary Material

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1 Additional - Ablation on Internal Validation

We further evaluate reconstruction quality across multiple anatomical planes on the internal-validation set. As shown in Fig. 1, GAC-WaveDiff more closely matches the ground truth than the reproduced fastWDM3D baseline in the axial, coronal, and sagittal views. The corresponding normalized absolute-error maps show reduced localized reconstruction errors, particularly around anatomical boundaries within the inpainting region, supporting improved structural and intensity consistency across viewing planes.

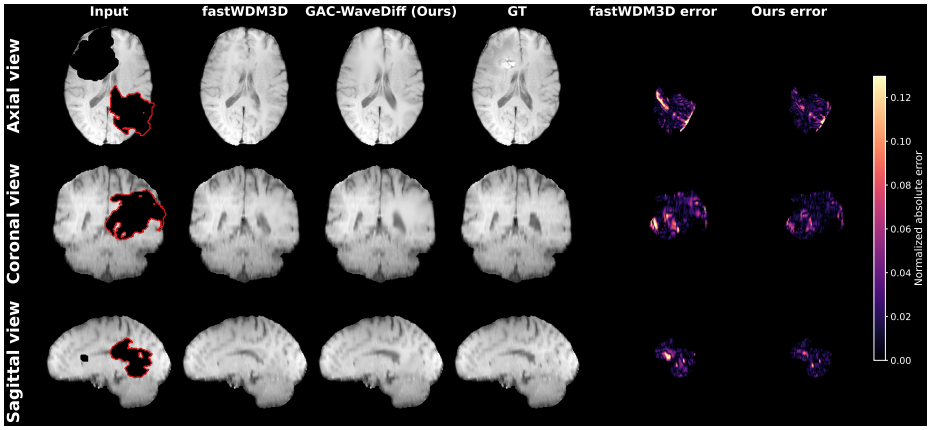

Fig. 1. Multi-plane qualitative comparison on the internal validation split. Axial, coronal, and sagittal views compare the masked input, reproduced fastWDM3D, GAC-WaveDiff, and ground truth (GT), together with normalized absolute-error maps. The red contour delineates the inpainting region defined by the ground-truth mask. GAC-WaveDiff shows closer agreement with the ground truth, particularly around ventricular and periventricular structures and near the inpainting boundary, with reduced localized reconstruction errors across all three anatomical planes.