3D isotropic high-resolution fetal brain MRI reconstruction from motion corrupted thick data based on physical-informed unsupervised learning: supplemental document

This supplementary material provides additional experimental results and qualitative analyses to complement the main manuscript on SUFFICIENT, an unsupervised framework for slice-to-volume reconstruction in fetal brain MRI.

1. VENTRICULOMEGALY CASE

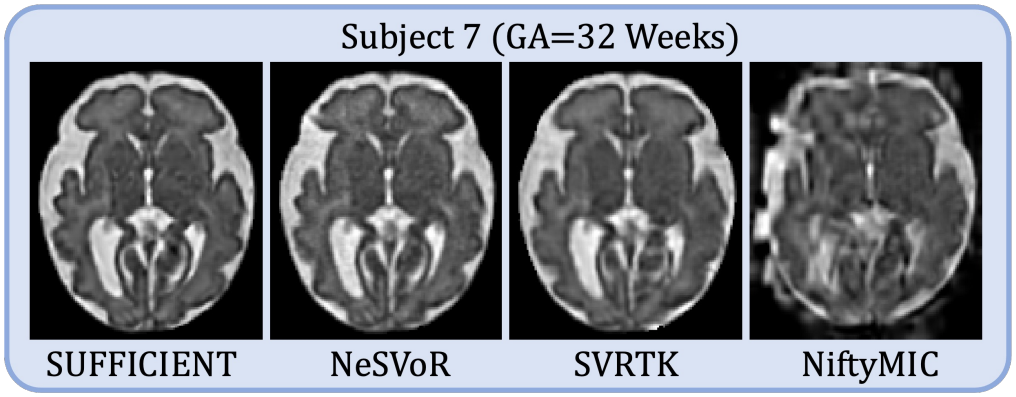

Fig. S1. Qualitative comparison of different reconstruction methods on a representative fetal brain subject diagnosed with ventriculomegaly (gestational age: 32 weeks). Volumetric slices are shown to highlight the ventricular anatomy and enable direct visual assessment of the dilated lateral ventricles.

2. REPRESENTATIVE SUBJECTS ACROSS QA SCORE LEVELS

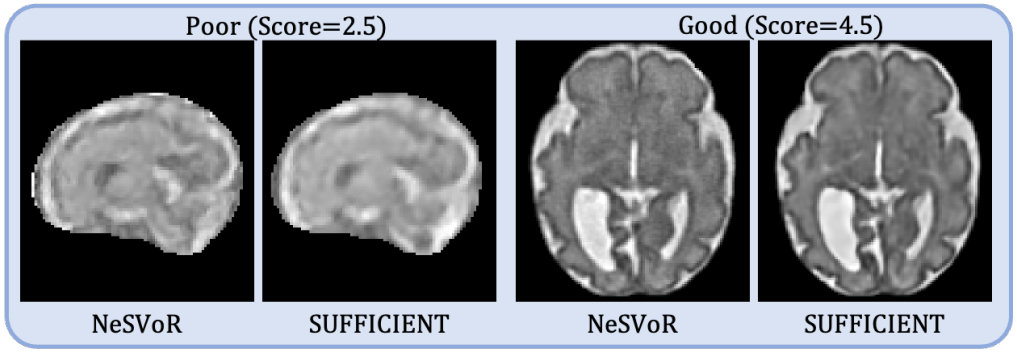

Fig. S2. Representative examples illustrating reconstruction quality across the full range of QA scores, from poor to good. Manual radiologist ratings are provided for each case.