

Figure S1. (Top) Screenshot of the segmented radial EPI sequence implemented on Siemens pulse sequence programming platform. In this work, one complete k-space consisted of seven excitation (segments). (Bottom) Zoomed-in sequence diagram of the third TR block. Note that this simulation presents the case of 2D acquisition. For 3D acquisition, every TR block is repeated for all kz partitions until the next TR block with different segment of radial spokes.

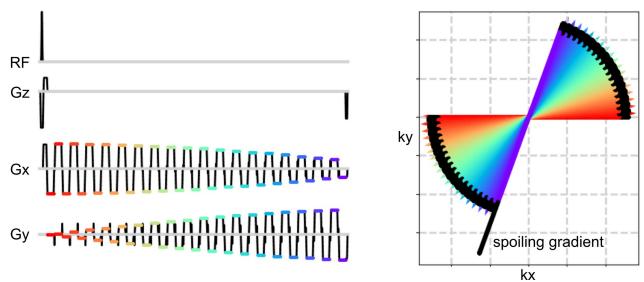


Figure S2. Color-coded illustration of the radial EPI sequence from one excitation and its corresponding k-space trajectory. The elongated black line after the readout of the last echo represented the spoiling gradients.

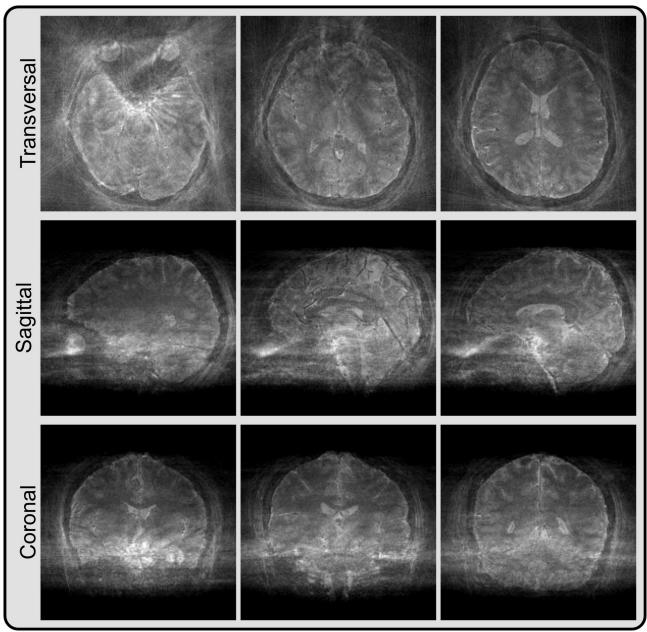


Figure S3. Adjoint NUFFT with density compensation reconstruction results of the same slices and orientation views as in Figure 3.