a)

iFFT & RSS

2D+time ground truth

Coil map estimation (ESPIRiT)

Coil maps

Evaluation with similarity metrics

Fully sampled k-space

Masks

Corruption with simulated motion

SENSE-type motion-compensated image reconstruction

2D+time motion-resolved reconstructed frames

2D+time motion-corrupted subsampled frames

Deformation fields

Encoder

Conv-Net

Decoder

Squaring & Scaling

DFT   Crop   iDFT   DFT

Pad   iDFT

Frame-to-Frame registration network (e.g. Fourier-Net+)

b)

Fully sampled k-space

Masks

Line Swapping Corruption

Swapping z random lines

Subsampling

iFFT & RSS

Motion-corrupted subsampled k-space

Motion-corrupted subsampled frames

c)

Fully sampled k-space

Masks

Lung Motion Corruption

Subsampling

iFFT

L Random Deformations

RSS   FFT

Motion-corrupted subsampled k-space

Motion-corrupted subsampled frames