# (a) ContextMRI training



"Brain, Slice 3, AXT1POST, Turbospinecho,

Pathology: Edema,

TR: 3150, TE: 33, TI: 100, FA: 150"

Patient info

Findings

Medical history

Imaging Params.

Metadata Encoder

Imag

Real

MRI Diffusion Model

Imag

Real

abs

# (b) ContextMRI for CS-MRI

Measurement $y$

Coil #1    Coil #2    ...    Coil #C

$x_t$

MRI Diffusion Model

Data Fidelity

DDIM sampling

$x_{t-1}$

"Known metadata"

Metadata Encoder