Clinical Applications of MRI

Material taken from teaching files of:
Brigham and Women’s Hospital
University of Michigan
University of Washington
University of North Carolina
Oxford University
Glioblastoma

T1-weighted image

T2-weighted image
Supratentorial Brain Neoplasm

T1-weighted image with contrast

T2-weighted image
Cerebral Lymphoma

T1-weighted image with contrast

T2-weighted image
Creutzfeldt-Jakob Disease

T2-weighted image

2 Months Later
Anoxic/Toxic Brain Injury from use of MDMA (Ecstasy)

Density-weighted images
Diffusion and Perfusion Weighted MRI in Cerebral Ischemia

Diffusion / perfusion mismatch may be a marker for territory at risk.
Cerebral Infarction

MR Angiogram

T2-weighted image
Meniscal Tear

T2-weighted images
Articular Cartilage Damage

Fat Suppressed, T2-weighted images
Malignant Mesenchymal Spindle Cell Tumor

T1-weighted image

T2-weighted image
Breast Carcinoma

Fat Suppressed, Contrast Enhanced, T1-weighted image
Renal Angiography

Contrast Enhanced MR Angiogram
Mesenteric Stenosis

Contrast Enhanced MR Angiogram
Lung Imaging with $^3$He

3D Low Flip Angle Acquisition
Spine Imaging

T1-weighted image
Tagging Cardiac Motion

Cardiac Gated Imaging with and without presaturation tagging