University of Iowa Data Upload Templates

**Comments on September 3-4 studies**

* The T1-weighted IR scans are likely useless. I did collect for all for completeness. It looks like our scanner will permit Inversion Recovery OR Driven Equilibrium (DE), but not both simultaneously. I am not absolutely certain about the availability of DE. There is an option labelled similarly but I will need to look into the source code to see if that's what it really is, so I will look into this more prior to the beginning of the study.
* I again collected both one-echo-per-scan and multi-echo T2 scans on all of these data sets. The multi-echo scans suffer from some inhomogeneity in later echoes on some of the outermost slices. It's possible this related to the positioning of ancillary equipment for respiratory monitoring (the leads and power pack). I will also look into this a little more as well and see if this is the issue.
* Some of the diffusion scans suffer from significant motion artifact. I am considering routinely running each of the b=500 and b=1000 scans twice back-to-back and reassembling the best of the two acquisitions into a single series. Since I'm already mucking with the DICOM before sending to fix the Series Description, it would not be difficult to add this to the local pipeline.
* I have some upcoming studies that I may be able to test some of these items on, so I may send additional data related to these issues prior to the October kickoff.

Patient Name / Patient ID: FR4979 / FR4979\_IW\_D30

* T2-weighted anatomical
  1. RARE\_anatomy
* T2 map scans (single echo multi slice)
  1. T2\_map TE = 75
  2. T2\_map TE = 45
  3. T2\_map TE = 15
* ADC scans (single b-value multi slice)
  1. ADC\_map b = 1000
  2. ADC\_map b = 500
  3. ADC\_map b = 0
* T2Star map (multi echo multi slice, TE=5/10/15/20ms)
  1. T2Star\_map
* T2 map scans (multi echo multi slice, TE=10/20/30/40/50/60/70/80ms)
  1. T2MAP\_8echo\_10ms
* T1-weighted Inversion Recovery
  1. T1\_weighted\_TI=1100

Patient Name / Patient ID: KX0579 / KX0579\_IW\_D30

* T2-weighted anatomical

1. RARE\_anatomy

* T2 map scans (single echo multi slice)

1. T2\_map TE = 75
2. T2\_map TE = 45
3. T2\_map TE = 15

* ADC scans (single b-value multi slice)

1. ADC\_map b = 1000
2. ADC\_map b = 500
3. ADC\_map b = 0

* T2Star map (multi echo multi slice, TE=5/10/15/20ms)

1. T2Star\_map

* T2 map scans (multi echo multi slice, TE=10/20/30/40/50/60/70/80ms)

1. T2MAP\_8echo\_10ms

* T1-weighted Inversion Recovery

1. T1\_weighted\_TI=1100

Patient Name / Patient ID: QC3809 / QC3809\_IW\_D30

* T2-weighted anatomical

1. RARE\_anatomy

* T2 map scans (single echo multi slice)

1. T2\_map TE = 75
2. T2\_map TE = 45
3. T2\_map TE = 15

* ADC scans (single b-value multi slice)

1. ADC\_map b = 1000
2. ADC\_map b = 500
3. ADC\_map b = 0

* T2Star map (multi echo multi slice, TE=5/10/15/20ms)

1. T2Star\_map

* T2 map scans (multi echo multi slice, TE=10/20/30/40/50/60/70/80ms)

1. T2MAP\_8echo\_10ms

* T1-weighted Inversion Recovery

1. T1\_weighted\_TI=1100

Patient Name / Patient ID: VH1919 / VH1919\_IW\_D30

* T2-weighted anatomical

1. RARE\_anatomy

* T2 map scans (single echo multi slice)

1. T2\_map TE = 75
2. T2\_map TE = 45
3. T2\_map TE = 15

* ADC scans (single b-value multi slice)

1. ADC\_map b = 1000
2. ADC\_map b = 500
3. ADC\_map b = 0

* T2Star map (multi echo multi slice, TE=5/10/15/20ms)

1. T2Star\_map

* T2 map scans (multi echo multi slice, TE=10/20/30/40/50/60/70/80ms)

1. T2MAP\_8echo\_10ms

* T1-weighted Inversion Recovery

1. T1\_weighted\_TI=1100

Patient Name / Patient ID: AM5398 / AM5398\_IW\_D30

* T2-weighted anatomical

1. RARE\_anatomy

* T2 map scans (single echo multi slice)

1. T2\_map TE = 75
2. T2\_map TE = 45
3. T2\_map TE = 15

* ADC scans (single b-value multi slice)

1. ADC\_map b = 1000
2. ADC\_map b = 500
3. ADC\_map b = 0

* T2Star map (multi echo multi slice, TE=5/10/15/20ms)

1. T2Star\_map

* T2 map scans (multi echo multi slice, TE=10/20/30/40/50/60/70/80ms)

1. T2MAP\_8echo\_10ms

* T1-weighted Inversion Recovery

1. T1\_weighted\_TI=1100

Patient Name / Patient ID: FR4960 / FR4960\_IW\_D30

* T2-weighted anatomical

1. RARE\_anatomy

* T2 map scans (single echo multi slice)

1. T2\_map TE = 75
2. T2\_map TE = 45
3. T2\_map TE = 15

* ADC scans (single b-value multi slice)

1. ADC\_map b = 1000
2. ADC\_map b = 500
3. ADC\_map b = 0

* T2Star map (multi echo multi slice, TE=5/10/15/20ms)

1. T2Star\_map

* T2 map scans (multi echo multi slice, TE=10/20/30/40/50/60/70/80ms)

1. T2MAP\_8echo\_10ms

* T1-weighted Inversion Recovery

1. T1\_weighted\_TI=1100

Patient Name / Patient ID: KX0560 / KX0560\_IW\_D30

* T2-weighted anatomical

1. RARE\_anatomy

* T2 map scans (single echo multi slice)

1. T2\_map TE = 75
2. T2\_map TE = 45
3. T2\_map TE = 15

* ADC scans (single b-value multi slice)

1. ADC\_map b = 1000
2. ADC\_map b = 500
3. ADC\_map b = 0

* T2Star map (multi echo multi slice, TE=5/10/15/20ms)

1. T2Star\_map

* T2 map scans (multi echo multi slice, TE=10/20/30/40/50/60/70/80ms)

1. T2MAP\_8echo\_10ms

* T1-weighted Inversion Recovery

1. T1\_weighted\_TI=1100

Patient Name / Patient ID: QC3810 / QC3810\_IW\_D30

* T2-weighted anatomical

1. RARE\_anatomy

* T2 map scans (single echo multi slice)

1. T2\_map TE = 75
2. T2\_map TE = 45
3. T2\_map TE = 15

* ADC scans (single b-value multi slice)

1. ADC\_map b = 1000
2. ADC\_map b = 500
3. ADC\_map b = 0

* T2Star map (multi echo multi slice, TE=5/10/15/20ms)

1. T2Star\_map

* T2 map scans (multi echo multi slice, TE=10/20/30/40/50/60/70/80ms)

1. T2MAP\_8echo\_10ms

* T1-weighted Inversion Recovery

1. T1\_weighted\_TI=1100

Patient Name / Patient ID: VH1900 / VH1900\_IW\_D30

* T2-weighted anatomical

1. RARE\_anatomy

* T2 map scans (single echo multi slice)

1. T2\_map TE = 75
2. T2\_map TE = 45
3. T2\_map TE = 15

* ADC scans (single b-value multi slice)

1. ADC\_map b = 1000
2. ADC\_map b = 500
3. ADC\_map b = 0

* T2Star map (multi echo multi slice, TE=5/10/15/20ms)

1. T2Star\_map

* T2 map scans (multi echo multi slice, TE=10/20/30/40/50/60/70/80ms)

1. T2MAP\_8echo\_10ms

* T1-weighted Inversion Recovery

1. T1\_weighted\_TI=1100